

Transaction Processing Facility



Library Guide with Master Index and Glossary

Version 4 Release 1

Transaction Processing Facility



Library Guide with Master Index and Glossary

Version 4 Release 1

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page vii.

Seventeenth Edition (June 2002)

This is a major revision of, and obsoletes, GH31-0146-15 and all associated technical newsletters.

This edition applies to Version 4 Release 1 Modification Level 0 of IBM Transaction Processing Facility, program number 5748-T14, and to all subsequent releases and modifications until otherwise indicated in new editions or technical newsletters. Make sure you are using the correct edition for the level of the product.

IBM welcomes your comments. Address your comments to:

IBM Corporation
TPF Systems Information Development
Mail Station P923
2455 South Road
Poughkeepsie, NY 12601-5400
USA

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© **Copyright International Business Machines Corporation 1994, 2002. All rights reserved.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

Tables	v
Notices	vii
Trademarks	vii
About This Book	ix
Who Should Read This Book	ix
How This Book is Organized	ix
Conventions Used in the TPF Library	ix
Related Information	x
IBM Systems Application Architecture (SAA) Books	x
Online Information	x
How to Send Your Comments	x
About the TPF Library	1
Product Overview	1
TPF Product Information Sources	1
IBM TPF Product Information Center	1
IBM CD-ROMs	2
OS/390 Internet Library	2
Summary of TPF Product Information	2
Finding TPF Product Information in the Library	4
TPF Product Information Reference Codes	8
Glossary	9
A	10
B	15
C	16
D	25
E	31
F	35
G	39
H	40
I	41
J	45
K	46
L	46
M	50
N	53
O	55
P	57
Q	63
R	64
S	69
T	79
U	83
V	85
W	86
X	87
Z	87
Numerics	87
Special Characters	88

Master Index to the TPF Library	89
Index	91

Tables

1.	Locating Different Pieces of the TPF Product Information	3
2.	General Topics	4
3.	C Language Support	5
4.	Communications	5
5.	Control Program	6
6.	File Storage	6
7.	Installation.	6
8.	Migration	7
9.	Operations	7
10.	Performance	7
11.	Programming and Development	7
12.	TPF Library Reference Codes and Softcopy Names	89

Notices

References in this book to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service in this book is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
USA

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
Department 830A
Mail Drop P131
2455 South Road
Poughkeepsie, NY 12601-5400
USA

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

Any pointers in this book to non-IBM Web sites are provided for convenience only and do not in any way serve as an endorsement. IBM accepts no responsibility for the content or use of non-IBM Web sites specifically mentioned in this book or accessed through an IBM Web site that is mentioned in this book.

Trademarks

The following terms are trademarks of the IBM Corporation in the United States or other countries or both:

ACF/VTAM
Advanced Peer-to-Peer Networking
APPN
AS/400
CICS
C/370
DATABASE 2
DB2
Distributed Relational Database Architecture
DRDA
EOCF/2

ESCON
IBM
MQSeries
MVS/XA
Operating System/2
OS/2
RISC System/6000
S/390
Sysplex Timer
VisualAge
VM/ESA
VTAM.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

About This Book

The *TPF Library Guide* provides reference material for the TPF system books. This cross-reference material is for all TPF system users.

The *TPF Library Guide* is used as a starting point to the TPF system library.

In this book, abbreviations are often used instead of spelled-out terms. Every term is spelled out at first mention followed by the all-caps abbreviation enclosed in parentheses; for example, Systems Network Architecture (SNA). Abbreviations are defined again at various intervals throughout the book. In addition, the majority of abbreviations and their definitions are listed in the master glossary in the *TPF Library Guide*.

Who Should Read This Book

This book is designed for all TPF system users.

How This Book is Organized

This book is structured in a very simple format and each part is independent of the other parts.

The first section is an introduction to the complete TPF library, with guidelines for understanding the organization and formats. The remainder of this book consists of the following cross-referencing tools:

- A *glossary* of major terms used in the TPF library
- A *master index* to the TPF library.

Conventions Used in the TPF Library

The TPF library uses the following conventions:

Conventions	Examples of Usage
<i>italic</i>	Used for important words and phrases. For example: A <i>database</i> is a collection of data. Used to represent variable information. For example: Enter ZFRST STATUS MODULE <i>mod</i> , where <i>mod</i> is the module for which you want status.
bold	Used to represent text that you type. For example: Enter ZNALS HELP to obtain help information for the ZNALS command. Used to represent variable information in C language. For example: level
monospaced	Used for messages and information that displays on a screen. For example: PROCESSING COMPLETED Used for C language functions. For example: maskc Used for examples. For example: maskc(MASKC_ENABLE, MASKC_IO);

Conventions	Examples of Usage
<i>bold italic</i>	Used for emphasis. For example: You <i>must</i> type this command exactly as shown.
<u>Bold underscore</u>	Used to indicate the default in a list of options. For example: Keyword=OPTION1 <u>DEFAULT</u>
Vertical bar	Used to separate options in a list. (Also referred to as the OR symbol.) For example: Keyword=Option1 Option2 Note: Sometimes the vertical bar is used as a <i>pipe</i> (which allows you to pass the output of one process as input to another process). The library information will clearly explain whenever the vertical bar is used for this reason.
CAPital LETters	Used to indicate valid abbreviations for keywords. For example: KEYWord= <i>option</i>
Scale	Used to indicate the column location of input. The scale begins at column position 1. The plus sign (+) represents increments of 5 and the numerals represent increments of 10 on the scale. The first plus sign (+) represents column position 5; numeral 1 shows column position 10; numeral 2 shows column position 20 and so on. The following example shows the required text and column position for the image clear card. ...+...1...+...2...+...3...+...4...+...5...+...6...+...7... LOADER IMAGE CLEAR Notes: 1. The word LOADER must begin in column 1. 2. The word IMAGE must begin in column 10. 3. The word CLEAR must begin in column 16.

Related Information

A list of related information follows. For information on how to order or access any of this information, call your IBM representative.

IBM Systems Application Architecture (SAA) Books

- *SAA Common Programming Interface C Reference - Level 2, SC09-1308.*

Online Information

- *IBM TPF Product Information Center, SK2T-8062*
- *Messages (Online)*
- *Messages (System Error and Offline)*

How to Send Your Comments

Your feedback is important in helping to provide the most accurate and highest quality information. If you have any comments about this book or any other TPF information, use one of the methods that follow. Make sure you include the title and number of the book, the version of your product and, if applicable, the specific location of the text you are commenting on (for example, a page number or table number).

When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you.

- If you prefer to send your comments electronically, do either of the following:
 - Go to <http://www.ibm.com/tpf/pubs/tpfpubs.htm>.
There you will find a link to a feedback page where you can enter and submit comments.
 - Send your comments by e-mail to tpfid@us.ibm.com
- If you prefer to send your comments by mail, address your comments to:
IBM Corporation
TPF Systems Information Development
Mail Station P923
2455 South Road
Poughkeepsie, NY 12601-5400
USA
- If you prefer to send your comments by FAX, use this number:
 - United States and Canada: 1 + 845 + 432 + 9788
 - Other countries: (international code) + 845 + 432 +9788

About the TPF Library

This section provides the following information:

- A high-level product overview
- TPF product information sources
- A guide for finding information in the TPF library
- Information about the book reference codes used in the master index.

Product Overview

The TPF system is a licensed program product that includes the base product and the following licensed features:

- High Performance Option (HPO)
- Multi-Processor Interconnect Facility (MPIF)
- TPF Application Requester (TPFAR).

Note: The Softcopy Publications feature is no longer available. Beginning with program update tape (PUT) 16, the *IBM TPF Product Information Center* CD-ROM is now available. See "TPF Product Information Sources" for more information about this CD-ROM.

See *TPF Licensed Program Specifications* for more information about the TPF product and its licensed features.

TPF Product Information Sources

A few pieces of the TPF product information are shipped to you as hardcopy with the TPF product tape or are available for order as hardcopy through the IBM Publications Center for a fee, but you can access **all** TPF product information in Hypertext Markup Language (HTML) format and Portable Document Format (PDF) from any of the information sources described in this section.

The IBM Publications Center Web site offers customized search functions to help you find the TPF product information that you need. To place an order or browse the IBM Publications Center, go to:
<http://www.elink.ibm.com/public/applications/publications/cgibin/pbi.cgi>. Some of the TPF product information is available for you to view or download free of charge. You can also order additional copies of the *IBM TPF Product Information Center* CD-ROM and a hardcopy version of *TPF Licensed Program Specifications* by providing your name, address, e-mail address, and credit card information. The IBM Publications Center search results will display prices in your local currency, and taxes will be calculated when you submit your address information

IBM TPF Product Information Center

The IBM TPF Product Information Center provides:

- Improved access to all TPF product information
- A new look and feel to the TPF product information:
 - Easy to use central navigation
 - Browser-based presentation
 - Expanded search capabilities that include quick lookup, advanced searches, and save and recall search results

- Customization of user preferences that include controlling the presentation of syntax diagrams and images, bookmarking frequently visited pages, and modifying HTML files
- Convenient printing using PDF files
- A help section that provides answers to frequently asked questions
- Links to other IBM resources
- A simple installation process.

The IBM TPF Product Information Center is available from the TPF Web site (go to <http://www.ibm.com/tpf/pubs/tpfpubs.htm>) and the *IBM TPF Product Information Center* CD-ROM. Although IBM encourages you to use an information source that best matches your working style and environment, the IBM TPF Product Information Center is the preferred information source. **You will always find the most recent version of the TPF product information on the TPF Web site.**

The TPF Web site contains a link to the **TPF Family Libraries** Web page, which allows you to access the IBM TPF Product Information Center. Once in the IBM TPF Product Information Center, you will have easy access to all TPF product information, including TPF 4.1, IBM Transaction Processing Facility Database Facility (TPPDF), IBM Extended Operations Console Facility/2 (EOCF/2), IBM TPF Operations Server, and IBM Internet Inter-ORB Protocol Connect for TPF (IIOP Connect for TPF). You can also access different PUT levels of the TPF information. To view this information on the TPF Web site, go to <http://www.ibm.com/tpf/pubs/tpfpubs.htm>.

Note: The IBM TPF Product Information Center has been tested on the Microsoft Windows 2000 and Windows NT operating systems using Microsoft Internet Explorer browser version 5.0 or later. If you are using Microsoft Internet Explorer browser version 5.0 with service pack 2 or later, use Adobe Acrobat Reader 5.0 to avoid experiencing difficulties with PDFs.

You can also access the IBM TPF Product Information Center from the *IBM TPF Product Information Center* CD-ROM, which also contains the necessary tools to use the TPF product information. See the information that is provided with the CD-ROM for more detailed information about the contents of the CD-ROM and installation instructions.

IBM CD-ROMs

TPF product information is available in BookManager BOOK format on the following IBM CD-ROMs, which are available from the IBM Publications Center:

- *IBM Online Library Omnibus Edition: OS/390 Collection*, SK2T-6700
- *IBM Online Library: Transaction Processing and Data Collection Kit*, SK2T-0730
- *z/OS Software Products Collection*, SK3T-4270.

OS/390 Internet Library

The OS/390 Internet Library provides various IBM product information in HTML format. To access this library, go to <http://www.ibm.com/servers/s390/os390/bkserv/>

Summary of TPF Product Information

Table 1 on page 3 summarizes the ways that you can access TPF product information. Some TPF product information is not available in book format. For those particular pieces of TPF product information, a form number is not provided.

Table 1. Locating Different Pieces of the TPF Product Information

TPF Product Information	Form Number	Included in the IBM TPF Product Information Center	Included on Other IBM CD-ROMs	Provided as Hardcopy with the Product Tape	Hardcopy Available for Order
General Topics					
<i>TPF Concepts and Structures</i>	GH31-0139	X	X		
<i>TPF Library Guide</i>	GH31-0146	X	X		
<i>TPF General Information</i>	GH31-0147	X	X		
<i>TPF Licensed Program Specifications</i>	GH31-0150	X	X	X	X
C Language Support					
<i>TPF Application Programming</i>	SH31-0132	X	X		
<i>TPF C/C++ Language Support User's Guide</i>	SH31-0121	X	X		
Communications					
<i>TPF ACF/SNA Data Communications Reference</i>	SH31-0168	X	X		
<i>TPF Data Communications Services Reference</i>	SH31-0145	X	X		
<i>TPF Non-SNA Data Communications Reference</i>	SH31-0161	X	X		
<i>SSL for the TPF 4.1 System: An Online User's Guide</i>	Not Applicable	X			
Control Program					
<i>TPF Main Supervisor Reference</i>	SH31-0159	X	X		
<i>TPF Multi-Processor Interconnect Facility Reference</i>	SH31-0155	X	X		
File Storage					
<i>TPF Database Reference</i>	SH31-0143	X	X		
<i>TPF System Generation</i>	SH31-0171	X	X		
Installation					
<i>TPF ACF/SNA Network Generation</i>	SH31-0131	X	X		
<i>TPF Application Requester User's Guide</i>	SH31-0133	X	X		
<i>TPF Memo to Licensees</i>	GI10-0687			X	
<i>TPF Memo to Licensees for HPO Feature</i>	GI10-0688			X	
<i>TPF Memo to Licensees for MPIF Feature</i>	GI10-0689			X	
<i>TPF Memo to Licensees for TPFAR Feature</i>	GI10-0690			X	
<i>TPF Program Directory</i>	GI11-0418			X	
<i>TPF Program Directory for HPO Feature</i>	GI11-0419			X	
<i>TPF Program Directory for MPIF Feature</i>	GI11-0420			X	
<i>TPF Program Directory for TPFAR Feature</i>	GI11-0421			X	
<i>TPF System Generation</i>	SH31-0171	X	X		

Table 1. Locating Different Pieces of the TPF Product Information (continued)

TPF Product Information	Form Number	Included in the IBM TPF Product Information Center	Included on Other IBM CD-ROMs	Provided as Hardcopy with the Product Tape	Hardcopy Available for Order
<i>TPF System Installation Support Reference</i>	SH31-0149	X	X		
Migration					
<i>TPF Migration Guide: Program Update Tapes</i>	GH31-0187	X	X		
<i>TPF Migration Guide: TPF 3.1 System to TPF 4.1 System</i>	GH31-0186	X	X		
Operations					
<i>Messages (Online)</i>	Not Applicable	X			
<i>Messages (System Error and Offline)</i>	Not Applicable	X			
<i>TPF Operations</i>	SH31-0162	X	X		
Performance					
<i>TPF System Generation</i>	SH31-0171	X	X		
<i>TPF System Performance and Measurement Reference</i>	SH31-0170	X	X		
Programming and Development					
<i>TPF Application Programming</i>	SH31-0132	X	X		
<i>TPF Application Requester User's Guide</i>	SH31-0133	X	X		
<i>TPF C/C++ Language Support User's Guide</i>	SH31-0121	X	X		
<i>TPF General Macros</i>	SH31-0152	X	X		
<i>TPF Program Development Support Reference</i>	SH31-0164	X	X		
<i>TPF Programming Standards</i>	SH31-0165	X	X		
<i>TPF System Macros</i>	SH31-0151	X	X		
<i>TPFDF and TPF Structured Programming Macros</i>	SH31-0183	X	X		
<i>TPF Transmission Control Protocol/Internet Protocol</i>	SH31-0120	X	X		
<i>XML User's Guide</i>	Not Applicable	X			

Finding TPF Product Information in the Library

The following tables provide an overview of the TPF product information by task and topic. Use this overview to determine which TPF product information to use to complete a task. Some TPF product information falls into more than one category. If you are a new TPF system user, begin with *TPF Concepts and Structures* and then proceed to other TPF product information based on your individual objective and the task you are performing.

Table 2. General Topics

TPF Product Information	Purpose	Form Number
<i>TPF General Information</i>	Obtain a high-level overview of the TPF operating system, describing the characteristics, functions, and features that allow it to grow. This information is intended for executives, managers, and system analysts.	GH31-0147

Table 2. General Topics (continued)

TPF Product Information	Purpose	Form Number
<i>TPF Concepts and Structures</i>	Obtain a comprehensive technical overview of the TPF system for your initial technical evaluation. This information is intended for executives and technical personnel, system programmers, and application programmers.	GH31-0139
<i>TPF Library Guide</i>	Obtain an overview of the TPF library as well as a functional cross-reference to the main storage resident control program CSECTs. A glossary of major terms used in the TPF library and a master index are also provided. This information is intended for anyone who uses the TPF system.	GH31-0146
<i>TPF Licensed Program Specifications</i>	Contains information about the warranty of licensed programs and supplemental terms related to the licensed programs. In addition, this information describes the specified operating environment of the TPF system.	GH31-0150

Table 3. C Language Support

TPF Product Information	Purpose	Form Number
<i>TPF Application Programming</i>	<p>Apply your knowledge of the assembler, C, and C++ languages when programming in the TPF system environment. This information unit describes IBM C and C++ language support for TPF application programming and includes information about writing TPF application programs in assembler, C, and C++ languages, coding library functions, and debugging in the TPF system environment.</p> <p>If you are a webmaster who wants to use the TPF system as a Web server site, this information unit offers guidance on how to use Internet server applications, how to port an application to the TPF system that is compliant with the Portable Operating System Interface for Computer Environments (POSIX) standards, and how to start a TPF application from the Internet.</p> <p>You can use this information with the <i>TPF C/C++ Language Support User's Guide</i> for information about C and C++ language functions referenced here, with <i>TPF Transmission Control Protocol/Internet Protocol</i> for information about the TCP/IP C language functions, and with <i>TPF General Macros</i> for information about assembler language macros.</p> <p>This information is intended for application programmers; however, introductory and reference sections will also be of interest to system programmers, middleware programmers, and tools providers.</p>	SH31-0132
<i>TPF C/C++ Language Support User's Guide</i>	<p>Write TPF programs in C or C++ language. This information unit describes IBM C/C++ language support for TPF application programming.</p> <p>Use this information unit with <i>TPF Application Programming</i> and your compiler books at compile time, and with <i>TPF Transmission Control Protocol/Internet Protocol</i> for information about the TCP/IP C language functions.</p> <p>This information is intended for application programmers, although some functions will also be of interest to system programmers, middleware programmers, and tools providers.</p>	SH31-0121

Table 4. Communications

TPF Product Information	Purpose	Form Number
<i>TPF ACF/SNA Data Communications Reference</i>	Understand the functions provided for the Systems Network Architecture (SNA) data communications area of the TPF system. This information is intended for system programmers.	SH31-0168
<i>TPF Data Communications Services Reference</i>	Learn about data communications support in the TPF system. This information is intended for system programmers.	SH31-0145
<i>TPF Non-SNA Data Communications Reference</i>	Understand the functions provided for the non-SNA data communications area of the TPF system. This information is intended for system programmers.	SH31-0161

Table 5. Control Program

TPF Product Information	Purpose	Form Number
<i>TPF Main Supervisor Reference</i>	<p>Understand the functions performed by the main supervisor in coordinating the use of resources and maintaining processing unit operations by performing initialization, service and control, and error processing. The main supervisor is a component of the control program (CP). You will find information about system startup, online system operations, the high performance option (HPO), system errors, and checking system internals.</p> <p>This information is intended for system programmers.</p>	SH31-0159
<i>TPF Multi-Processor Interconnect Facility Reference</i>	<p>Design system or utility programs that interface with the Multi-Processor Interconnect Facility (MPIF). This information unit provides information about system-level coding for system services and support for utility programs that require MPIF services.</p> <p>This information is intended for system programmers.</p>	SH31-0155

Table 6. File Storage

TPF Product Information	Purpose	Form Number
<i>TPF Database Reference</i>	<p>Understand the planning, programming, and operations required to access data in an application and operating environment.</p> <p>Use this information with <i>TPF Concepts and Structures</i> for an overview of the TPF system and with <i>TPF Migration Guide: Program Update Tapes</i> for information about supported hardware and support for the TPF system.</p> <p>This information is intended for system programmers.</p>	SH31-0143
<i>TPF System Generation</i>	<p>Plan for and install the TPF system. If you are migrating from a TPF 3.1 system to a TPF 4.1 system, use this information with <i>TPF Migration Guide: Program Update Tapes</i>. See the <i>TPF System Installation Support Reference</i> for more information about installing the TPF system.</p> <p>This information is intended for system programmers.</p>	SH31-0171

Table 7. Installation

TPF Product Information	Purpose	Form Number
<i>TPF ACF/SNA Network Generation</i>	<p>Define a Systems Network Architecture (SNA) data communications network for use with the TPF system.</p> <p>This information is intended for system programmers.</p>	SH31-0131
<i>TPF Application Requester User's Guide</i>	<p>Install the TPF Application Requester (TPFAR) feature and write TPFAR application programs using structured query language (SQL).</p> <p>This information is intended for application programmers.</p>	SH31-0133
<i>TPF System Generation</i>	See Table 6.	SH31-0171
<i>TPF System Installation Support Reference</i>	<p>Install the TPF system and run offline support packages, and learn about user exits, global areas, loaders, the record ID attribute table (RIAT), multiple assembly/compilation print program, macro cross-reference program, system allocator (SALO), and the variable cross-reference listing. See <i>TPF System Generation</i> for more information about installing the TPF system.</p> <p>This information is intended for system programmers.</p>	SH31-0149

Table 8. Migration

TPF Product Information	Purpose	Form Number
<i>TPF Migration Guide: Program Update Tapes</i>	Apply changes and updates in the form of program update tapes (PUTs) and small programming enhancements (SPEs) to the TPF 4.1 system. This information is designed as a planning guide and is intended for system programmers, console operators, and application programmers.	GH31-0187
<i>TPF Migration Guide: TPF 3.1 System to TPF 4.1 System</i>	Migrate or plan your migration from a TPF 3.1 system to a TPF 4.1 system because this information describes changes between the TPF 3.1 system and the TPF 4.1 system, and provides general information to help you plan for your TPF system migration. This information does not contain specific directions about planning for your migration or information about installing the TPF 4.1 system. See <i>TPF System Installation Support Reference</i> and <i>TPF System Generation</i> for more information about installation and system generation This information is intended for system programmers, console operators, and application programmers.	GH31-0186

Table 9. Operations

TPF Product Information	Purpose	Form Number
<i>Messages (Online)</i>	Perform problem determination in the TPF system by reviewing online messages. This information is designed to be used with other information in the library as part of the problem determination process. This information is intended for system support personnel, console operators, system programmers, and coverage programmers.	Not Applicable
<i>Messages (System Error and Offline)</i>	Perform problem determination in the TPF system by reviewing system errors and offline messages. This information is designed to be used with other information in the library as part of the problem determination process. This information is intended for system support personnel, console operators, system programmers, and coverage programmers.	Not Applicable
<i>TPF Operations</i>	Obtain information about the commands you can use for computer room operations and control program (CP) management. This information is intended for system console operators, functional console operators, and system programmers.	SH31-0162

Table 10. Performance

TPF Product Information	Purpose	Form Number
<i>TPF System Generation</i>	See Table 6 on page 6.	SH31-0171
<i>TPF System Performance and Measurement Reference</i>	Understand online data collection and offline data reduction, which is the performance and measurement package provided by the TPF system. This information provides specifics about analyzing the reports to improve system performance. Diagrams and sample reports are also provided as well as specifics about installing the data collection and data reduction programs. This information is intended for system programmers.	SH31-0170

Table 11. Programming and Development

TPF Product Information	Purpose	Form Number
<i>TPF Application Programming</i>	See Table 3 on page 5.	SH31-0132
<i>TPF Application Requester User's Guide</i>	See Table 7 on page 6.	SH31-0133
<i>TPF C/C++ Language Support User's Guide</i>	See Table 3 on page 5.	SH31-0121

Table 11. Programming and Development (continued)

TPF Product Information	Purpose	Form Number
<i>TPF General Macros</i>	<p>Review the descriptions of general macros that provide system services (such as performing alphabetic scans, using tape drives, or handling input and output), that control application programming processing (such as entry creation), and that control events for resource sharing (such as posting and waiting, queuing and dequeuing). The TPF Advanced Program-to-Program Communications (TPF/APPC) macros are also described here.</p> <p>This information and <i>TPF System Macros</i> are the primary references for assembler language macro usage under the TPF system. Use this information with <i>TPF System Macros</i>, which documents macros restricted for use by the TPF system, macros requiring authorization, and macros for use in the control program (CP) only.</p> <p>This information is intended for application programmers.</p>	SH31-0152
<i>TPF Program Development Support Reference</i>	<p>Obtain information about tools provided by the TPF system to assist in testing application programs designed to run on the TPF system. These tools help you to control the test environment and progressively test each application program under various conditions.</p> <p>This information is intended for application programmers.</p>	SH31-0164
<i>TPF Programming Standards</i>	<p>Understand the programming standards used by TPF development. This information contains details, methods, and examples for implementing user programs compatible with the TPF system.</p> <p>This information is intended for application programmers and system programmers.</p>	SH31-0165
<i>TPFDF and TPF Structured Programming Macros</i>	<p>Understand the two sets of structured programming macros (SPMs) that are provided with the TPF Database Facility (TPFDF) product and the TPF system, and how to use them.</p> <p>This information is intended for application programmers.</p>	SH31-0183
<i>TPF System Macros</i>	<p>Review the descriptions of macros restricted for use by the TPF system, macros requiring authorization, and macros for use in the control program (CP) only.</p> <p>This information and <i>TPF General Macros</i> are the primary references for assembler language macro usage under the TPF system. Use this information with <i>TPF General Macros</i>, which documents macros that provide system services, control application programming processing, and control events for resource sharing.</p> <p>This information is intended for system programmers.</p>	SH31-0151
<i>TPF Transmission Control Protocol/Internet Protocol</i>	<p>Understand the Internet and its relationship to the TPF system, the TPF system implementation of Transmission Control Protocol/Internet Protocol (TCP/IP), TCP/IP offload support, TCP/IP native stack support, and the socket application programming interface (API) functions that application programmers can use.</p> <p>This information is intended for application programmers.</p>	SH31-0120

TPF Product Information Reference Codes

Reference codes have been assigned to each piece of TPF product information. These reference codes are simply a shorthand method of referring to the TPF product information in indexes.

For a complete list of reference codes and the applicable piece of TPF product information and component for each, see “Master Index to the TPF Library” on page 89.

Glossary

This glossary defines terms commonly used in the Transaction Processing Facility (TPF) system information that are not common to data processing in general, or data processing terms common to other systems that are uniquely defined by the TPF system. Some of these terms may have other meanings in other contexts or in other data processing systems. Commonly defined data processing terms are not usually included here; however, some such terms that are widely used in the TPF system, and critical to its understanding, are included.

This glossary includes terms and definitions from:

- The *IBM Dictionary of Computing* (New York: McGraw-Hill, 1994).
- *Information Technology—Portable Operating System Interface for Computer Environments (POSIX)*, from the POSIX series of standards for applications and user interfaces to open systems, copyrighted by the Institute of Electrical and Electronics Engineers (IEEE). Copies of all POSIX drafts and standards may be purchased from the IEEE by calling 1-800-678-IEEE.
 - Definitions identified by (POSIX.0) are from Part 0: Standards Project, Draft Guide to the POSIX Open System Environment, P1003.0 Draft 15 (June 1992), an unapproved draft subject to change.
 - Definitions identified by (POSIX.1) are from Part 1: System Application Program Interface (API) C Language, approved September 28, 1990, as IEEE Std 1003.1-1990 by the IEEE Standards Board, and adopted in 1990 as an International Standard (ISO/IEC 9945-1: 1990) by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).
 - Definitions identified by (POSIX.2) are from Part 2: Shell and Utilities, P1003.2.
- The *American National Standard Dictionary for Information Systems*, ANSI X3.172-1990, copyright 1990 by the American National Standards Institute (ANSI). Copies may be purchased from the American National Standards Institute, 11 West 42nd Street, New York, New York 10036. Definitions are identified by the symbol (A) after the definition.
- The *Information Technology Vocabulary*, developed by Subcommittee 1, Joint Technical Committee 1, of the International Organization for Standardization and the International Electrotechnical Commission (ISO/IEC JTC1/SC1). Definitions of published parts of this vocabulary are identified by the symbol (I) after the definition; definitions taken from draft international standards, committee drafts, and working papers being developed by ISO/IEC JTC1/SC1 are identified by the symbol (T) after the definition, indicating that final agreement has not yet been reached among participating National Bodies of SC1.
- The *Open Software Foundation (OSF)*. These definitions are identified by the symbol (OSF) after the definition. Copies of OSF documents may be obtained from the Open Software Foundation, Inc., 11 Cambridge Center, Cambridge, MA 02142.

The following cross-references are used in this glossary:

Contrast with. This refers to a term that has an opposed or substantively different meaning.

Synonym for. This indicates that the term has the same meaning as a preferred term, which is defined in its proper place in the glossary.

Synonymous with. This is a backward reference from a defined term to all other terms that have the same meaning.

See. This refers the reader to a more commonly used term or to multiple-word terms in which the term appears.

See also. This refers the reader to terms that have a related, but not synonymous, meaning.

Deprecated term for. This indicates that the term should not be used. It refers to a preferred term, which is defined in its proper place in the glossary.

A

AAA. Agent assembly area.

absolute address. In IBM ESA modes, an address that exists after translation and prefixing but before configuration occurs. See also *logical address*, *physical address*, *real address*, and *virtual address*.

absolute path name. The name of a directory or file expressed as a sequence of directories followed by a file name, beginning from the root directory. Absolute path names begin with a slash (/). (POSIX.1) See also *relative path name*, *path name*.

absolute time. The total elapsed time since 00:00 a.m. January 1, 1900 coordinated time (UTC). UTC differs from Absolute Time by the accumulated number of leap seconds since 00:00 a.m. January 1, 1900 UTC.

abstract class. A class that has no objects belonging to it that do not also belong to an additional subclass.

accept. The process by which the base or allocated versions of programs get permanently replaced (updated) with the newly loaded E-type loader versions of these programs.

accept function. The E-type loader function that replaces the programs at the allocated addresses with the programs contained in a specified loadset.

accepted status. The condition where a central processor complex's (CPC) time-of-day clock is synchronous with a synchronization source that is not compatible with the master synchronization source in the complex.

access. To obtain the use of a computer resource. (T) The way in which files are referred to by the computer. The ability to obtain the use of a protected resource. (OSF) To obtain data from or to put data in storage. In computer security, a specific type of interaction between a subject and an object that results in the flow of information from one to the other.

access list. A list that directs the TPF Internet mail server to selectively accept or reject mail from or to specific hosts, domains, networks, host addresses, or mail addresses.

access control. In computer security, ensuring that the resources of a computer system can be accessed only by authorized users in authorized ways.

access control list (ACL). In TPF Internet mail server support, a list that specifies the users and their access rights for mailboxes.

access mode. A form of access permitted to a file. (POSIX.1)

access permissions. A group of designations that determine whether and how a user can access a file. Types of access permission are read, write, and search.

ACF. Advanced Communications Function.

ACF/VTAM. Advanced Communications Function for Virtual Telecommunications Access Method.

acknowledge message label (AML). A type of link control block (LCB) that is sent across an SLC link to indicate that all blocks of a multiblock message have been correctly received and acknowledged.

ACL. Access control list.

ACP. Airlines Control Program.

action code. One or more characters at the beginning of a message that identify the type of message to follow.

activate function. The E-type loader function that makes the programs in specified loadsets available for use by new ECBs.

activation level. See *activation number*.

activation number. A number assigned to every ECB in the system. When entering a program, the activation number determines which version of the program is to be entered. An activation number is also assigned to all programs in a loadset. This allows a user to determine which version of a program is entered.

active entry. The ECB currently in control of the CPU or I-stream engine.

active queue. A mail queue of mail items that have been accepted for delivery, but for which delivery has not yet been attempted.

active user. A user that has been identified to MPIF.

adaptive rate-based (ARB) pacing. A flow control protocol that regulates the flow of data over a high-performance routing (HPR) rapid transport protocol (RTP) connection by adjusting the send rate based on feedback from the receiver. This protocol allows for high link utilization and prevents congestion before it occurs.

address space. A collection of storage that is allocated, and in many ways managed, as a single entity by the TPF system. Each byte in an address space is identified by a unique address. An address space represents an extent of storage available to a program.

adjacent link station (ALS). The hardware and software that establish a connection between the TPF system and a channel-attached network controller. The adjacent link station is a type 2.1 low-entry node that uses an exchange identification format 3 (XID3) exchange to establish a connection, and sends FID2 PIUs across the connection.

adjunct area. An area in a list entry that is used to hold as many as 64 bytes of data with coupling facility (CF) support. You can use this area to maintain control information about the contents of a data entry. See also *data entry* and *list entry*.

Advanced Communications Function (ACF). A function that allows the TPF system to communicate with other systems, including other TPF systems with the ACF function, using either the SNA Multisystem Networking Facility (MSNF) or the Network Extension Facility (NEF) licensed program.

Advanced Communications Function for Virtual Telecommunications Access Method (ACF/VTAM). An IBM licensed program that controls communications and flow of data in an SNA network. It provides single-domain, multiple-domain, and interconnected network capabilities.

Advanced Program-to-Program Communications (APPC). See *TPF Advanced Program-to-Program Communications (TPF/APPC)*.

Advanced Program-to-Program Communications (APPC) macro. An assembler macro in an application or program that uses the APPC communications protocol.

AET. Asynchronous event table.

agent. A terminal or workstation user in an airline system; can also indicate any terminal or workstation user.

agent assembly area (AAA). The terminal control block used to pass information among related messages of a transaction. The AAA was created before SNA support as a terminal control block in an airlines line control (ALC) network.

aggregate. (1) In programming languages, a structured collection of data objects that form a data type. (2) An array, a structure, or a union.

Airlines Control Program (ACP). The name for earlier versions of the Transaction Processing Facility (TPF).

airlines line control (ALC). The synchronous line protocol used to control transmission from or to a cluster of terminals attached to terminal interchange units. ALC is also known as SABRE line control.

ALC. Airlines line control.

alias queue object. An MQSeries object, the name of which is an alias for a base queue defined to the local queue manager. When an application or a queue manager uses an alias queue, the alias name is resolved and the requested operation is performed on the associated base queue.

alive timer. A timer used by the TPF system to detect failures for idle rapid transport protocol (RTP) connections in a high-performance routing (HPR) network.

allocator. The program deck that is used as input to the SALO program which, in turn, creates a system allocator table (SAL) and a program allocation table (IPAT). These tables define where each real-time program will reside on DASD.

ALS. Adjacent link station.

ALT. The symbolic name for an alternate tape. See *alternate (ALT) tape*.

alternate CRAS. A terminal other than the prime or R/O computer room agent set (CRAS) that is designated to direct and monitor system operations.

alternate dispense mode. In a migration stage in which the FACE table supports 2 different FARF modes, the FARF address type that is not currently being dispensed.

alternate key path. An additional key path other than the primary key path that can be used for searching and accessing data. See also *primary key path*.

alternate routing. A communications procedure where a message is routed to a substitute receiver when the normal receiver is inoperative or busy.

alternate (ALT) tape. A logical tape to which any currently active output tape may be switched. An alternate tape is also known as an ALT tape.

ALU. Arithmetic and logic unit.

American National Standard Code for Information Interchange (ASCII). The code developed by ANSI for information interchange among data processing systems, data communications systems, and associated equipment. The ASCII character set consists of 7-bit control characters and symbolic characters.

AML. Acknowledge message label.

AMQ. Application message queue.

AMSG. Application message format.

ANR. Automatic network routing

ANR labels. Automatic network routing labels.

ANR node. Automatic network routing node.

ANSI. American National Standards Institute.

answerback. The input message that acknowledges the successful receipt of a message segment sent to an ALC device.

ANT. Application name table.

API. Application programming interface.

APPC. Advanced Program-to-Program Communications. See *TPF Advanced Program-to-Program Communications (TPF/APPC)*.

application. A function to which a network user may log on. Each application is represented by an application name. Every input message is directed to a particular application. In coupling facility (CF) support, any subsystem, system product, or authorized application running on a TPF system in a multisystem environment or processor configuration.

Typically, multiple instances of the application, distributed across the processor configuration, work together to perform a set of functions. For example, a database product could be installed on several systems in the processor configuration. On each system, an instance of the application accesses and manages the data that it shares with the other instances of the application.

application I-stream engine. Any instruction stream engine other than the main I-stream engine in a tightly coupled processor complex. Contrast with *main I-stream engine*.

application macros. Macros that generate a sequence of inline machine instructions or imbedded macros to perform generalized functions. Contrast with *control program macros*.

application message format (AMSG). The prescribed format for messages input to and output from TPF systems.

application message queue (AMQ). The data structure on which SENDCK macro processing places message blocks that are to be transmitted across an SLC link.

application name table (ANT). The system table consulted by the communication control program to find the routing control application table (RCAT) pointer for a particular application name.

application program work area. The entry control block (ECB) area reserved for exclusive use by application programs.

application programming interface (API). The formally defined programming language interface between an IBM system control program or licensed program and its user.

application recovery package (ARP). A facility that enables users to add additional or different message recovery facilities other than those built into TPF.

application recovery table (ART). A table used by the application recovery programs that permits users to add additional or different message recovery facilities than those built into TPF systems.

application requester (AR). A Distributed Relational Database Architecture (DRDA) component that transforms a database request into communication protocols for a distributed relational database system.

application server (AS). A Distributed Relational Database Architecture (DRDA) component that receives and processes database requests from an application requester.

application set. A collection of programs associated with a particular ECB in that ECB's virtual memory.

Application Support Class Library. A set of C++ classes. The TPF system supports the following subset of Application Support Class Library classes: `IBinaryCodedDecimal`, `IDate`, `IException`, `IString`, `ITime`, `ITimeStamp`, and `I0String`.

application time-out switch. The switch that is reset every 500 milliseconds by the control program to ensure that ECB-controlled programs are not caught in a tight loop. (Also called the *loop protection switch*.)

AR. Application requester.

ARB pacing. Adaptive rate-based pacing.

argument. In a function call, an expression that represents a value the calling function passes to the function specified in the call.

arithmetic and logic unit. A part of a computer that performs arithmetic operations, logic operations, and related operations.

arithmetic object. An integral object, a bit field, or objects having the type `float`, `double`, or `long double`.

ARP. Application recovery package.

array. A variable that contains an ordered group of data objects. All objects in an array have the same data type.

array collection. A type of collection with ordered, nonunique elements that are not accessible by key. Elements are ordered by ascending position (index). Elements cannot be inserted or deleted before an existing element.

ART. Application recovery table.

AS. Application server.

ASCII. American National Standard Code for Information Interchange.

assembler language. A symbolic programming language in which the set of instructions includes the instructions of the machine and whose data structures correspond directly to the storage and registers of the machine.

assignment conversion. A change to the form of the right operand that makes the right operand have the same data type as the left operand.

assignment expression. An operation that stores the value of the right operand in the storage location specified by the left operand.

associativity. The order for grouping operands with an operator (either left-to-right or right-to-left).

asynchronous event table (AET). A record cache subsystem (RCS) control table used to monitor I/O operations that request asynchronous completion notification.

asynchronous messaging. A method of communication between programs in which programs place messages on message queues. With asynchronous messaging, the sending program proceeds with its own processing without waiting for a reply to its message. Contrast with *synchronous messaging*.

ATA-IATA. Air Transport Association and International Air Transport Association.

attention message. An asynchronous notification mechanism used by DASD caching control units to present the status of an operation requested with the Set Subsystem Mode or Perform Subsystem Function CCWs. A message buffer can be read with the Prepare to Read Subsystem Data order and a Read Subsystem Data command that contains the status of the operation.

attribute. (1) A named property of an entity. A characteristic or property of one or more objects. For example, the attribute for a displayed field could be blinking (OSF). (2) In Extensible Markup Language (XML), additional data included with an "element" on page 32. An attribute must be defined in the "schema" on page 69 and can be used with empty elements as well as with elements that contain data. For example, countryCode, areaCode, and pNumber are all attributes of the element PhoneNumber:

```
<PhoneNumber countryCode="44" areaCode="340" pNumber="635 3343" />
```

automatic network routing (ANR). In high-performance routing (HPR), a highly effective routing protocol that minimizes cycles and storage requirements for routing network layer packets (NLPs) through intermediate nodes on the route.

automatic network routing (ANR) labels. Labels contained in the network layer header (NHDR) of a network layer packet (NLP) that identify the path of the NLP through the high-performance routing (HPR) network. ANR labels are assigned during the exchange identifier (XID).

automatic network routing (ANR) node. An intermediate node in a high-performance routing (HPR) network that has ANR support applied.

automatic tape mounting. The ability of the tape control program to load and mount alternate (ALT) tapes on devices or convert ALT tapes to active tapes without operator intervention.

auxiliary loader. A program that loads TPF components to a disabled image. The auxiliary loader is capable of loading a complete set of the TPF system software (full load) or selected components (short load). It consists of an offline and online portion. See also *E-type loader* and *general file loader*.

available state. The state a coupling facility (CF) is in when all CF commands are processed normally. Contrast with *nonavailable state*. See *coupling facility (CF)*.

B

back-end processor. A TPF processor that receives input messages routed from a front-end processor; that is, a back-end processor has no communication support in it. A back-end processor provides application program processing and database management functions, usually on a large database. In a loosely coupled complex, multiple back-end processors share a common database. Contrast with *front-end processor*.

backup record. See *duplicate record*.

bag collection. A type of collection with unordered, nonunique elements. There is no access by key.

band number. In a FARF3 file address, a unique random value between 0 and 4095 that is associated with a fixed file record type.

base class. A class from which all instances are inherited.

basic subsystem (BSS). The primary subsystem that contains the control program and all support programs necessary for a stand-alone TPF system. All system-related tasks, including I/O processing, are processed by the BSS.

BBT. Buffer block table.

BCC. Block check character.

BDW. Block descriptor word.

Berkeley Software Distribution (BSD) socket. A standard interface for user application programs. Programs written to this standard can interface with sockets to access the Internet. The BSD socket interface was developed at the University of California at Berkeley.

big endian. A method of representing data such that the lower numbered bytes of the data are more significant. IBM S/390 and AS/400 machines use this format.

binary. (1) A base two numbering system; the binary digits are 0 and 1. (2) Involving a choice of two conditions, such as on-off or yes-no.

binary expression. An expression containing two operands and one operator.

binary file. A file that is not organized as lines of text that can be read by a human. A binary file is intended to be interpreted by a program.

binary large object (BLOB) collection. A type of collection with ordered, nonunique elements that are 1 byte each. There is no access by key. Elements are ordered by ascending relative byte address (RBA). Elements cannot be inserted or deleted before an existing element. Operations can be performed in the range from 1 to 32 000 bytes at a time. Synonymous with *byteArray collection*.

binary synchronous communication (BSC). A communication protocol that uses synchronous transmissions to support multipoint and point-to-point half-duplex lines.

Bind. (1) Establishes access paths on DB2 for each SQL statement (2) in an application.

binding. A method that allows processes to refer to a socket by using a name. Communicating processes are bound by an association. The binding system call allows a process to specify half of the association; that is, the local name.

bit field. A member of a structure or union that contains a specified number of bits.

BLOB collection. Binary large object.

block check character (BCC). The BCC provides longitudinal even parity for each bit column (b7 to b1), excluding parity bits.

block descriptor word (BDW). The first 4 bytes of a variable block length (format-VB) physical block.

block statement. Any number of data definitions, declarations, and statements that appear between the symbols { and }. The block statement is considered to be a single C-language statement.

blocked records. See *blocked tape*.

blocked tape. A tape recorded with nonspanned variable block length (format-VB) blocks. The logical records on the tape are usually referred to as *blocked records*. A tape of physical records that can be composed of several contiguous logical records or parts of logical records. Physically, the blocked tape is read one record at a time; logically, the TPF system manages the blocked tape record by record. Contrast with *unblocked tape*.

blocking mode. A program may be suspended indefinitely until data requested using a socket API function, for example read or write, is available. See *nonblocking mode*.

boundary alignment. The position in main storage of a fixed-length field (such as halfword or doubleword) on an integral boundary for that unit of information. For example, a word boundary is a storage address evenly divisible by four.

breakpoint. When a C program is compiled using the TEST option, the computer generates a breakpoint, or an EX instruction with a hook statement as its subject. The EX instruction is initialized to a no-operation instruction. An entry breakpoint is generated at the beginning of a function. An exit breakpoint is generated at the completion of a function. Other breakpoints are generated under control of the suboptions of the compiler TEST option, for example, the PATH suboption generates path breakpoints.

browse support. Support that allows TPF persistent collections classes, methods, and collections to be located, displayed, interrogated, dumped, and validated.

BSC. Binary synchronous communication.

BSC message routing. The process that directs an input message to a particular application through the use of the RCPL associated with the message.

BSD socket. Berkeley Software Distribution socket.

BSN. Byte sequence number.

BSS. Basic subsystem.

BSS resident. An application or resource that may be allocated only to the basic subsystem.

buffer block table (BBT). A table containing the addresses of all 4K (KB) working storage blocks currently in use as part of a buffer for a tape in blocked mode.

build script. A file that defines the module type and specifies the components of a dynamic link library (DLL), dynamic load module (DLM), or library load module (LLM), and is used by the CBLD program to create the finished DLL, DLM, or LLM.

built-in function. A function call that the compiler replaces with an in-line object code expansion. Because a built-in function call does not generate any linkage, no prolog or epilog code is invoked when the built-in function executes. Built-in functions provide more efficient code by reducing the instruction path length.

byte. A unit of measure. For IBM C compilers, 8 bits equal 1 byte.

byteArray collection. A type of collection with ordered, nonunique elements that are 1 byte each. There is no access by key. Elements are ordered by ascending relative byte address (RBA). Elements cannot be inserted or deleted before an existing element. Operations can be performed in the range from 1 to 32 000 bytes at a time. Synonymous with *binary large object (BLOB) collection*.

byte sequence number (BSN). A number in the transport header (THDR) of a network layer packet (NLP) that indicates the order in which data was transmitted by the sending node.

C

cache. A random access electronic storage medium in selected storage controllers used to retain data for faster access by the channel.

cache fast write (CFW). A form of fast write where the data is written directly to cache without using nonvolatile storage and is available for later destaging. The data is not placed on the DASD surface until a destage is performed.

cache fast write duplex (CFWD). A user-specified caching attribute that allows a data record to be written as cache fast write data to both the prime and duplicate modules. All read operations are queued to the prime module. Access to data with this attribute has performance benefits for both read and write errors. This attribute is specified for a given record ID through the RIAT.

cache fast write identifier (CFWID). An identification used to insure that a channel program does not access data in a cache that is downlevel.

cache fast write simplex (CFWS). A user-specified caching attribute that allows a data record to be written as cache fast write data to the prime module only of a TPF prime and duplicate module pair. All read operations are queued to the prime module. Access to data with this attribute has performance benefits for both read and write errors. This attribute is specified for a given record ID through the RIAT.

cache fast write identifier. See *CFWID*.

cache fast write simplex. See *CFWS attribute*.

cache structure. See *coupling facility cache structure*.

canned message. In earlier TPF applications, the term given to output messages in which text is predefined and restricted to 13 characters.

capture. The utility that copies online storage to 2 sets of logical tapes: one set contains online files as they exist at the moment of capture; a second set, the exception tapes, collects a copy of any record that was altered after it was captured. Together, these tapes contain a static copy of the database as it existed at the time the capture utility completed processing.

capture/restore. See *capture and restore*.

case clause. In a switch statement, a case label followed by any number of statements.

case label. The word case followed by a constant expression and a colon.

cast. An expression that converts the type of the operand to a specified scalar data type (the operator).

catastrophic error. A system error that forces processing to end and necessitates a re-IPL of the TPF system.

catch block. A block associated with a try block that receives control when an exception matching its argument is thrown.

CBRW. Core block reference word.

CCB. Conversation control block.

CC code. Each CodesetRegistry-CodesetEncoding name is assigned a 2 character name. If the first byte of the CC code is a letter then it is reserved for IBM.

CCCTIN. A control program CSECT handling key main storage initialization procedures. Also called the initializer program.

CCP. Communications control program.

CCSID. A CCSID is a number from 0 to 65535 that describes how character data is represented on a machine. A single CCSID will describe 3 major features of a machines character data: ESID, Code Set number Code Page number. In many cases but not all, CCSID = Code Page number.

CCT. Common frame control table.

CDC. Continuous data collection.

CDT. CLAW device table.

central processing unit (CPU). The part of a computer that includes the circuits that control the interpretation and execution of instructions.

Note: *A CPU is the circuitry and storage that executes instructions. The centrality of a processor or processing unit depends on the configuration of the system or network in which it is used.*

central processor complex (CPC). (1) A configuration that consists of all the machines required for operation. See *processor complex*. (2) A system configuration consisting of main storage, one or more CPUs, and a channel subsystem containing logical subchannels and channel paths. Main storage in one CPC is not directly accessible by the CPUs and channel subsystem of another CPC. Not all I-stream engines of a CPC will necessarily be logically enabled to access the devices attached to the channel subsystem.

centralized list handling (CLH). A set of centralized routines used for dispatching system tasks.

C function trace. Enables ISO-C programs compiled using the TEST option of the compiler to trace information on entry to, exit from, and within C functions, dynamic load modules (DLMs), and C library functions.

CFCB. Coupling facility connection block.

CFCT. Coupling facility control table.

CFLF. Concurrency filter lock facility.

CFRB. Coupling facility request block.

CFSB. Coupling facility structure block.

CFST. Coupling facility status table.

CFTT. Coupling facility trace table.

C function trace. Enables ISO-C programs compiled using the TEST option of the compiler to trace information on entry to, exit from, and within C functions, dynamic load modules (DLMs), and C library functions.

CFVB. Coupling facility vector block.

CFW. Cache fast write.

CFWD. Cache fast write duplex.

CFWID. Cache fast write identifier.

CFWS. Cache fast write simplex.

chain chasing. The act of accessing every fixed record and main storage table that might refer to pool records and, in turn, reading those records and any more pool records referred from them. The phase during recoup when defined record chains are read to determine pool usage.

change number of sessions (CNOS). TPF/APPC verbs that are used to change the (LU,mode) session limit. This session limit controls the number of LU-LU sessions per mode name that are available between two LU 6.2 types for allocation to conversations.

char specifier. The words char or unsigned char, which describe the type of data a variable represents.

character constant. A character or an escape sequence enclosed in single quotation marks.

character set. (1) A group of symbols shown on a terminal. A character set used in the USA might have the letters A-Z in both capital and small. A character set used in Japan, however, might have Katakana characters instead. (2) A group of characters used for a specific reason; for example, the set of characters a printer can print or a keyboard can support.

character translation table. An item that has a 1 for 1 character mapping from one code page to another code page.

character variable. A data object whose value can be changed during program execution and whose data type is char or unsigned char.

checkpoint. (1) A time when significant information is written on the log. (2) In MQSeries on UNIX systems, the point in time when a data record described in the log is the same as the data record in the queue. Checkpoints are generated automatically and are used during the system restart process.

child process. A process that is created by a parent process. See also *parent process* and *process*.

child server. Transmission Control Protocol/Internet Protocol (TCP/IP) support provides the `activate_on_receipt` function, which defines a new program called the child server program. The child program is activated when an incoming message arrives from a client.

CID. TPF C implementation data.

CIMR area. Core image restart area.

CINFC tag. The symbolic name of a main storage resident system table.

CIO. Common input/output (I/O).

C language. A general-purpose high-level programming language.

class. A C++ aggregate that can contain members such as functions, types, and user-defined operators in addition to data. A class can be defined hierarchically, allowing one class to be derived from another, and can restrict access to its members. A user-defined data type. A class data type can contain both data representations (data members) and functions (member functions). The internal representation of a collection implementation. See *object class*.

class ID. An identifier in the object header that indicates the most detailed classification of the object.

CLAW. Common Link Access to Workstation.

CLAW API. The application programming interface that provides restricted ISO-C interface functions to communicate with any CLAW workstation, such as the TCP/IP offload device.

CLAW device interface. See *TPF CLAW device interface*.

CLAW device table (CDT). A control block structure located in main storage in the TPF system. It contains information about each CLAW device defined in the system.

CLAW host application. An application on a TPF host processor that is used to establish a Common Link Access to Workstation (CLAW) connection with an application on a CLAW workstation.

CLAW host name. A name assigned to a TPF host processor that is used by a CLAW workstation to identify that TPF host processor.

CLAW protocol. Common Link Access to Workstation protocol.

CLAW workstation. A device that communicates with the TPF system using the Common Link Access to Workstation (CLAW) protocol. The IBM 3172 Model 3 Interconnect Controller is an example of a CLAW workstation.

CLAW workstation application. An application on a CLAW workstation that is used to establish a Common Link Access to Workstation (CLAW) connection with a CLAW host application on a TPF host processor.

CLH. Centralized list handling.

client. In TCP/IP, a program at one site requesting services from a program at another site. See also *server*.

C load module. A type of load module. For historical reasons, load modules on the TPF system were referred to as C load modules.

CLU. Control point logical unit.

CMC. Communications management configuration.

CNOS. Change number of sessions.

Code Page. For every value of a character byte, (00 to FF or 0 to 255) there is a unique meaning. The definition of all 255 possible characters is known as its code page.

Codeset Name. See *CodesetRegistry-CodesetEncoding name*.

Codeset Name Conversion Table. A table that provides conversions from codeset name to CC code.

CodesetRegistry-CodesetEncoding name. A code page number might be 500 or 1047. IBM will give it a name such as IBM-500 or IBM-1047. Names prefixed with *IBM-* are supported by IBM.

collection. The primary entity in TPF collection support (TPFCS).. A collection consists of a related group of elements organized within a data store. Collections are created by applications and can be temporary or persistent.

collection parts. See *collection part objects*.

collection part objects. In TPF collection support (TPFCS), objects used to represent the same collection that are unrelated in terms of inheritance.

COMM SOURCE. Communication source program.

comma expression. An expression that contains two operands separated by a comma. Although the compiler evaluates both operands, the value of the right operand is the value of the expression. If the left operand produces a value, the compiler discards this value.

command. (1) A request to perform an operation or run a program. When parameters, arguments, flags, or other operands are associated with a command, the resulting character string is a single command. (2) Operator messages, accepted only from CRAS terminals, that are used to communicate with the control program to request services or modify system parameters. They are sometimes called functional messages or Z-messages because the first character of the message is always Z.

comment. A comment contains text that the compiler ignores. Comments begin with the */** characters, end with the **/* characters, and span any number of lines. Comments cannot be nested.

commit. In TPF transaction services, to apply all of the file changes that were made inside of a commit scope.

commit scope. A unit of work that groups together a set of database updates.

common block. A TPF block that is allocated within a common frame. A common block is visible to all ECBs at the same address.

common frame. 4KB of storage that are allocated in the pool of storage that is visible to all ECBs at the same address.

common frame control table (CCT). A control table that keeps track of which common frames are in use, what block type they are being used for, and the ECB that obtained the block.

common I/O (CIO). A TPF control program routine that manages I/O operations through a macro interface that permits the set of CIO macros supporting each I/O function to make use of a centralized service structure. See also *preemptive input/output (PIO)*.

common I/O handler. The first-level I/O interrupt handler. It saves the current environment, passes control to the appropriate device handler, and performs I/O initiation in response to requests from the control program.

Common Link Access to Workstation (CLAW) protocol. Input/output (I/O) protocol that provides interactive interfaces to workstations. This set of functions is provided through C functions. In the TPF system, CLAW interfaces are restricted interfaces provided by the system and not written by users.

common symbol table. In expression enhancements for the TPF debuggers, a table that contains symbols that are considered common to real-time assembler programs. Use of the common symbol table eliminates the need for multiple copies of the DSECT and symbol information for each real-time assembler program being retained and loaded to the TPF system. Instead, only one copy of the common DSECTs or symbols is kept in the TPF system. You use the common symbol table user exit (UCST) to add the DSECTs and symbols to the table.

communication domain. A name space or an address space that shares common communication properties, such as naming conventions and protocol address formats.

communication macros and statements. Macros or statements used in applications or programs that use any of the various aspects of TPF communications support.

communication source program (COMM SOURCE). The first ECB-controlled program to be given control for routing input messages to the intended destination.

communications control program (CCP). The system program that controls all non-SNA communication between external users of the system and the application programs.

communications management configuration (CMC). The networking configuration where a single host, known as a CMC host node, owns and manages all network resources except those resources that are channel-attached to data hosts in the network. In a TPF environment, VTAM acts as the CMC host node and TPF is a data host node. The term CMC is often used interchangeably with VTAM.

compact resident. A description for a collection in which TPF collection support (TPFCS) stores data using a compact structure. See also *compact structure*.

compact structure. An object that contains both the actual data elements that an application has stored in a collection, as well as control information that TPF collection support (TPFCS) uses to sort or retrieve those elements. The MemKey object of the StructureMem class is just one example of several kinds of compact structures.

compilation time. The time during which a source program is translated from a high-level language (such as the C language) into a machine language.

compile. The action required to transform a source file into an object file.

compiler. A program that translates instructions written in a high-level programming language (such as the C language) into a machine language.

complex name. The user-specified name of a loosely coupled complex or stand-alone TPF processor; it forms the second part of the system ID.

computer room agent set (CRAS). A terminal on which TPF system operators perform supervisory functions and respond to output messages generated internally by the system.

concurrency controls. A way of providing data access controls. TPF collection support (TPFCS) provides three levels of access control: none, optimistic, and pessimistic concurrency.

concurrency filter lock facility (CFLF). The TPF support for the multi-path lock facility (MPLF).

condition. A relational expression that can be evaluated to a value of either true or false.

conditional compilation statement. A preprocessor statement that causes the preprocessor to omit specified C source code in the file depending on how a specified condition evaluates.

conditional expression. A compound expression that contains a condition (the first expression), an expression to be evaluated if the condition has a nonzero value (the second expression), and an expression to be evaluated if the condition has the value 0.

confirmed status. The term *confirmed* has two meanings regarding the clocks in loosely coupled processors: *local* or *remote*.

If a processor is confirmed local, its clock is internally synchronous but is not synchronous with the complex. If a processor is confirmed remote, the processor clock is continually being verified through the TOD RPQ or a Sysplex Timer (STR). As a condition for operation, a tightly coupled processor complex must be *internally synchronous*; that is, all the I-stream engines must be synchronous with the main I-stream engine. The master processor is defined to be locally confirmed if the TOD RPQ is used. The master processor is defined to be remotely confirmed if a Sysplex Timer (STR) is used.

CONKC tag. The symbolic name of a system configuration variable.

connect token. A token that identifies a connection to the coupling facility (CF) list structure and is unique for each connection in the processor configuration.

connection. A virtual circuit or session established between two MPIF users for passing data or commands between themselves. A connection has a specific pair of tokens that identify the MPIF resources used for the connection.

connection services. Services that allow authorized programs and subsystems to use the coupling facility (CF) to share data in a processor configuration.

connections. See *user*.

connector. See *user*.

constant. A data object with a value that does not change during program execution.

constant expression. An expression having a value that can be determined during compilation and that does not change during program execution.

continuous data collection (CDC). An application that gathers online system performance data relating to TPF production system environments and stores the data in a relational database by using the TPF Application Requester (TPFAR) feature.

control point logical unit (CLU). Control LUs (CLUs) are the mechanisms used to establish LU-LU sessions in an SNA PU 2.1 and PU 5 environment. A VTAM application program, called the logon manager, has a session with a TPF CLU to exchange session initiation requests.

control program (CP). A computer program designed to schedule and to supervise the execution of programs of a computer system.

control program macros. Macros that link an application to the system service routines, or activate internal control program functions. Contrast with *application macros*.

control record. A pool record that serves as the anchor to which all of the parts that represent an associated collection are chained.

control station. In a BSC network, the station (usually a processor) in a multipoint data communications system that controls network traffic by means of polling and selection. On a centralized multipoint network, tributary stations can communicate only with the control station when polled or selected by the control station.

control statement. A C language statement that changes the path of execution.

control transfer. The facility used to move from the control program environment to the ECB-controlled environment. The interface is the CXFRC macro.

control vector (CV). A field containing certain information in an SNA path information unit (PIU). Multiple SNA commands can share the same control vector.

conversation. A logical connection between 2 programs over an SNA LU 6.2 session that allows them to communicate with each other while processing a transaction. A conversation provides a short-term connection between 2 particular programs, while a session is a long-term connection between a particular pair of LUs.

conversation control block (CCB). An area in main storage used to identify and control an LU 6.2 conversation.

conversation state. The condition of a conversation that reflects what the past action on that conversation has been and that determines what the next set of actions may be.

conversion. A change in the type of a value. For example, when you add values having different data types, the compiler converts both values to a common form before adding the values.

copy member. A file that is copied into a control section (CSECT). For example, CICR40 is a copy member of CCNUCL.

core allocation lists. See *main storage allocation lists*.

core block reference word (CBRW). An 8-byte field in the entry control block (ECB) that is used to hold the main storage address and dynamic information about main storage blocks in use while the entry is active. Every ECB has 16 CBRWs, one for each ECB data level. Additional CBRWs are available by using data event control blocks (DECBS).

core image records. The system records placed in main storage by IPL during system restart.

core image restart area. An area that contains TPF load modules that must be loaded into contiguous storage. It consists of the CP, FCTB, RIAT, SIGT, ICDF, ACPL, IPAT, USR1, and USR2. The CP is not self-relocating and must therefore be loaded into a fixed storage location. The remaining load modules are self-relocating.

core resident program. An ECB-controlled program that is brought into main storage when it is entered and remains in main storage. Core resident programs reside in an area called the core resident program area (CRPA).

core resident program area (CRPA). The area of main storage in which core resident programs reside.

coupling facility. A special processor used to centralize storage for all attached processors in a processor configuration by providing shared storage management functions.

coupling facility cache structure. A named piece of storage on the coupling facility (CF) that enables the TPF system to share information. A coupling facility cache structure allows high-performance sharing of frequently referenced data.

coupling facility connection block (CFCB). A dynamic coupling facility (CF) control block that represents a single connection to a CF structure.

coupling facility control table (CFCT). A coupling facility (CF) table that contains information such as pointers to other tables and locks for CF resources that are global to CF support.

coupling facility lock. A lock that is used to by coupling facility (CF) support. See *lock*.

coupling facility list structure. A named piece of storage on the coupling facility (CF) that enables TPF systems to share information. A CF list structure contains a set of lists and an optional lock table that can be used for serializing resources in the list structure. Each list contains a queue of list entries.

coupling facility name. A 5- to 8-character alphanumeric name, that begins with an alphabetic character, that is used by the TPF system to identify the coupling facility (CF).

coupling facility request block (CFRB). A dynamic coupling facility (CF) area that monitors the progress of a CF macro call.

coupling facility status table (CFST). A coupling facility (CF) table that contains multiple entries. Each entry contains information particular to a CF in the processor configuration.

coupling facility structure. See *coupling facility list structure* and *coupling facility cache structure*.

coupling facility structure block (CFSB). A dynamic coupling facility (CF) area maintained in both main storage and fixed file records that contains information about a CF structure.

coupling facility trace table (CFTT). A coupling facility (CF) table that contains CF trace data for use by IBM service representatives.

coupling facility vector block (CFVB). A dynamic coupling facility (CF) area that is used to handle the completion of CF requests and to monitor list transitions.

CP. Control program.

CPC. Central processor complex.

CPGID. CPGID is another word for the numerical part of the CodesetRegistry-CodesetEncoding name.

CPU. Central processing unit.

CPU affinity. An attribute assigned to a program that is restricted to run on a particular I-stream engine in a tightly coupled processor complex.

CPU ID. The symbolic ID given to a CPU, which is also used to distinguish different processors in a loosely coupled processor complex. The CPU ID forms the third part of the system ID.

CPU loop. The routines that sequentially interrogate system queues and clocks to determine what work the CPU will process next. The CPU loop is also known as the *system task dispatcher*.

CPU loop list. One of the queues interrogated by the CPU loop routines to determine which work items are to be dispatched. These queues are commonly called *CPU lists*. The queues interrogated, in the order of processing priority, are: cross list, ready list, input list, and deferred list.

CRAS. Computer room agent set.

CRAS state. One of 5 system states. CRAS state supports clock management and keypoint update. Disk lost interrupt is active.

CRAS table (CRAT). A list of CRAS terminals and their attributes. The CRAT defines the functions each CRAS terminal can perform and provides its address.

CRAS terminal. Variation of computer room agent set.

CRAT. CRAS table.

CRC. Cyclic redundancy check.

created entry. An entry (ECB) established through the use of a create macro, as opposed to an entry (ECB) associated with a given input message.

create macro. An application macro that allows independent entries (ECBs) to be created.

create-type macro. See *create macro*.

cross-domain takedown. A deactivation request between domains.

cross list. The highest priority CPU loop list, used for dispatching entries among several I-stream engines.

CRPA. core resident program area.

C task communications area (CTCA). (1) A global data area that is used by the standard C library. (2) Part of the library function work area in the first stack frame attached to an ECB. The CTCA is used by IBM C/370 compiler-generated code. This area contains a set of pointers to the current C locale, a set of floating point constants used by the string conversion functions, and other data needed by various C library functions.

CTCA. C task communications area.

CTKX. Image pointer record. Synonymous with *IPR*.

CTL dump. The dump produced when processing stops because the control program or hardware has detected an error. For example, a catastrophic error will initiate a CTL dump.

C-type program. (1) A control program CSECT that always resides in main storage and does not require an ECB. (2) A TPF control program CSECT that always resides in main storage, does not require an ECB, and is not required to conform to standard fixed block sizes.

current directory. The directory a user is working with. Synonymous with *current working directory*, *working directory*.

current NCB directory records. The node control block (NCB) directory records that are currently being used by the TPF system.

current working directory. The directory a user is working with. Synonymous with *current directory*, *working directory*.

cursor. In TPF collection support (TPFCS), a temporary marker that is used to iterate through collections and establish locks on collections.

CV. Control vector.

cycle-down. The process of bringing the system to a lower system state; this implies a decrease in the number of active system resources and a more limited operating condition.

cycle-up. The process of bringing the system to a higher system state; this implies an increase in the number of active system resources and an expanded operating condition.

cyclic redundancy check (CRC). A method of error detection used to improve the reliability of communication lines.

D

daemon. A program that runs unattended to perform a standard service. Some daemons are triggered automatically to perform their task; others operate periodically.

DASD. Direct access storage device.

DASD fast write (DFW). A form of fast write where the data is written concurrently to cache and nonvolatile storage, and is destaged to DASD when buffer space is needed or by operator-initiated command.

DAT. Dynamic address translation.

data. Any type of information, not just information contained in a database.

data area. An attribute (field) of an object used to store data. This data can be other objects.

data area attribute. An field in an object used to store generic data. Synonymous with *data area*.

database ID (DBI). The ECB field that identifies which subsystem and subsystem user databases are being used by a particular ECB.

database identification. See *database ID (DBI)*.

database management system (DBMS). A software system that has a catalog describing the data it manages. The DBMS controls access to the data stored in it.

database ordinal number (DBON). The logical or relative record number of a record in a database.

database reorganization (DBR). The process whereby the user captures all or selected fixed file and pool records from one system and reloads them on a different or reconfigured system.

database request module (DBRM). A DB2 data set member containing information about SQL commands. The DBRM is created by the precompiler and used in the bind process. This file contains information about all SQL commands in the user application program, and includes information about how the SQL commands are processed and the DB2 access strategy.

DATABASE 2 (DB2). An IBM relational database management system for MVS operating systems.

data collection programs. The online programs that collect the system activity data used to analyze system performance.

Data collection/reduction. The TPF utility used to tune the system and manage the sensitive balance between utilization of resources and response to the users. See *data collection programs* and *data reduction programs*.

data definition. (1) In TPF collection support (TPFCS), a list of characteristics that are assigned to a collection when the collection is created. The characteristics include record IDs, shadowing, and collection lifetime. (2) A data definition describes a data object and reserves storage. A data definition can also provide an initial value. Definitions appear outside a function or at the beginning of a block statement.

data element. A unit of storage in a data entry for a coupling facility (CF). See also *data entry*.

data entry. A part of a list entry that holds user-defined data in a coupling facility (CF). A data entry contains units of storage called data elements. See also *data element* and *list entry*.

data event control block (DECB). A control block dynamically allocated from the private area of the entry control block (ECB). A DECB is a logical extension of an ECB and ECB data levels, and is used like a data level in FIND/FILE processing. See also *entry control block* and *ECB data levels*.

datagram. In TCP/IP, the basic unit of information passed across the Internet environment. A datagram contains a source and destination address along with the data. An Internet Protocol (IP) datagram consists of an IP header followed by the transport layer data. See also *packet*.

data host. Synonym for *data host node*.

data host node. In a CMC configuration, a type 5 host node that is dedicated to processing applications and does not control network resources, except for its channel-attached devices. Synonymous with *data host*.

data link control (DLC). The SNA protocols that initiate, control, check, and stop data transfer over a data link between 2 adjacent nodes.

data loader. The program that loads pilot tape data onto the online modules.

data loss exposure. A term describing the potential for a fast write data loss condition. An exposure exists as long as there is fast write data in the cache for a device attached to a 3990 caching control unit with the record cache subsystem RPQ.

data macro. A declarative macro that generates dummy control sections (DSECT)s defining records that may be called by any TPF source program by using the data macro name.

data object. A storage area used to hold a value.

data record. A pool record where the actual data elements for the collection are stored. A data record often contains more than one data element for a given collection.

data record information library (DRIL). A file, used by the system test compiler (STC), containing an entry for all system data records and message formats.

data reduction programs. The offline programs that process data collection records stored on the data collection tape to generate the reports required for system performance analysis.

data save area (DSA). An area in the ISO-C stack that is dynamically allocated at function entry and deallocated on return. It contains a register save area, all of the automatic storage for the function, and other data.

data store. A repository for persistent collections. A data store name is subsystem-common, but the data in a data store is subsystem-unique.

data type. (1) A generic description of an elementary unit of information in a particular software system. Common data types include whole numbers, decimal numbers, dollar amounts, dates, and text. Higher-level data types may also be defined if abstract data types are supported. (2) A category that specifies the interpretation of a data object such as its mathematical qualities and internal representation.

DATXPAGE envelope. A record that serves as a package in which TPF collection support (TPFCS) stores all the other objects it wants to file in that record.

DB2. DATABASE 2.

DBCS. Double-byte character set.

DBF. A symbolic name, reserved to TPF, for a general tape denoting the database reorganization capture tape for fixed files.

DBI. Database ID.

DBMS. Database management system.

DBON. Database ordinal number.

DBP. A symbolic name, reserved to TPF, for a general tape denoting the database reorganization capture tape for pool files.

DBR. Database reorganization.

DBRM. Database request module.

DCL. Dispatch control list.

DCR. Dispatch control record.

DDM. Distributed Data Management is an architected data management interface used for data interchange between like or unlike systems.

DDR. Dynamic device reconfiguration.

deactivate. The process by which all programs in a particular active E-type loader loadset become inactive.

deactivate function. The E-type loader function that prevents new ECBs from entering the programs contained in specified loadsets.

dead-letter queue (DLQ). A queue to which a queue manager or application sends messages that it cannot deliver to their correct destination.

deadlock. An error condition in which processing cannot continue because each of two elements of the process is waiting for an action by or a response from the other. Unresolved contention for the use of a resource. An impasse that occurs when multiple processes are waiting for the availability of a resource that does not become available because it is being held by another process that is in a similar wait state. A condition that occurs if processes simultaneously attempt to get semaphores (locks) held by the other.

DECB. Data event control block.

debug. To detect, locate, and correct mistakes in a program.

decimal. A base 10 numbering system; decimal digits range from 0 to 9.

decimal constant. A number containing any digits 0 to 9 that does not begin with 0.

declaration. A description that makes an external object or function available to a function or a block.

declarator. An identifier and optional symbols that describe the data type.

dedicated resources. The resources owned by one processor in a loosely coupled complex. Dedicated resources are not shared or switched to other processors. VFA is an example of this type of resource.

default. A value that is used when no alternative is specified by the programmer.

default clause. In a switch statement, a default label followed by one or more statements. When the none of the conditions of the specified case clauses are met, the default clause is executed.

default initialization. The initial value of the data object if an initializer is not specified. extern and static variables receive 0 as their default initial values. auto and register variables receive undefined default initial values.

deferred list. The lowest priority CPU loop list; used to delay processing of an entry (ECB) until higher priority work is completed.

deferred queue. A mail queue of mail items for which delivery has been attempted but was unsuccessful. Delivery will be attempted again.

define. See #define.

definition. A data description which reserves storage and may provide an initial value.

definition side-deck. A directive file that contains an IMPORT control statement for each function and variable exported by the dynamic link library (DLL). When you build a DLL, a definition side-deck is automatically created and written to the SYSDEFSD DDname by the prelinker. You must include this definition side-deck when you prelink a DLL application that imports any of those functions or variables from a DLL.

delay-file. A VFA attribute. When a file-type macro is issued for a record that has the delay-file attribute, the record is not written out to DASD until (1) the record is not currently accessed by 1 or more Entries and space is needed in the VFA buffer, (2) the system is cycling down, or (3) cycle up after a catastrophic software error has occurred and recovery is a software IPL. Contrast with *immediate-file*.

demand counter. An area that indicates the number of entries (ECBs) currently using a particular program. The higher the demand count the more likely that the program will remain in main storage.

descriptor. A small, nonnegative integer that is used to identify an object such as a file or other input/output (I/O) stream.

destage. The asynchronous writing of new or updated data from cache or nonvolatile storage to DASD.

device driver. A collection of subroutines that control the interface to an input/output (I/O) device (such as a line printer), a logical subdevice (such as a large section of a disk drive), or a pseudo-device (such as the null file, `/dev/null`). User-defined device drivers can be written to access data that exists in a TPF database.

device level selection (DLS). A DASD function available with 3380 DASD. With DLS, 2 DASD strings can each be attached to 2 storage paths on a DASD control unit. Using this configuration, any 2 devices on the same DASD string can read or write data simultaneously.

device level selection enhanced (DLSE). A DASD function available with 3390 DASD. With DLSE, a DASD string can be attached to 4 storage paths on a DASD control unit. Using this configuration, as many as 4 devices on the same DASD string can read or write data simultaneously.

device type. As many as 4 physically different DASD device types can be used in a TPF system. The logical device types of DEVA, DEVB, DEVC, and DEVD are assigned to physical device types 1, 2, 3, and 4 respectively at system generation time.

DFAD. FACE driver.

DFW. DASD fast write.

DFW attribute. A user-specified caching attribute that allows a data record to be written as DASD fast write data. Access to data with this attribute has performance benefits for both read and write operations. This attribute is specified for a given record ID through the RIAT.

diagnostic output formatter (DOF). The programs that convert the system error data on RTA tapes and RTL tapes into readable dump listings used for debugging purposes.

digit. Any of the numerals from 0 through 9.

direct access storage device (DASD). A device on which access time is effectively independent of the location of the data.

direct attachment support. The support of a computer console directly attached to a subchannel.

directional capability. The capability of data flow on a communication line: simplex transmissions flow in one direction; half-duplex transmissions flow in either direction at a time; full-duplex transmissions flow in both directions simultaneously.

directory. (1) A type of file containing the names and controlling information for other files or other directories. (2) A construct for organizing computer files. As files are analogous to folders that hold information, a directory is analogous to a drawer that can hold a number of folders. Directories can also contain subdirectories, which can contain subdirectories of their own. (3) A file that contains directory entries. No two directory entries in the same directory can have the same name. (POSIX.1) (4) A file that points to files and to other directories. (5) An index used by a control program to locate blocks of data that are stored in separate areas of a data set in direct access storage. (6) In coupling facility (CF) cache support, a directory for the CF cache structure where the TPF system keeps control information about data shared among cache users. The directory contains one directory entry for each piece of data that users share.

directory entry. A field with two formats. The first format is used mainly to contain the file addresses of both the primary as well as the shadow copy of a record. The second format contains the next available relative record number (RRN) that TPF collection support (TPFCS) will use for the associated collection.

directory-only cache. A coupling facility (CF) cache structure that contains directory entries but no pieces of shared data. Directory-only cache users do not store data in the CF cache structure. The directory-only users use the CF cache structure to maintain the consistency of data in their local caches.

directory record. A special type of pool record used to store directory entries.

directory reordering. See *directory replenishing*.

directory replenishing. The storage management process that retrieves a new pool directory record when the pool directory record currently in use is nearly depleted. Synonymous with *directory reordering*.

directory update program. The offline program that creates input records required to update the online file copies of the pool directory records. This procedure returns pool records no longer needed to the list of available pool records.

dirty-read cursor. A nonlocking type of cursor for read-only operations.

disk formatter. An offline program used to format a disk module to TPF system requirements.

disk pack initialization. The system initialization program that checks the tracks assigned to each disk pack and initializes the necessary volume labels.

dispatch control list (DCL). The 3rd-level record in the centralized list handling (CLH) routines. There is 1 DCL for each CPU list; it contains the addresses of work items to be dispatched.

dispatch control record (DCR). The 2nd-level record in the centralized list handling (CLH) routines. There is 1 DCR for each CPU list. This record contains a pointer to the DCL as well as status information for that list.

dispatch management table (DMT). The 1st-level record in the centralized list handling (CLH) routines. There is 1 such record in a system. This record contains pointers to the 2nd-level information for each of the CPU loop list types in the system.

dispense mode. In a FACE table that supports FARF3/FARF4 addresses or FARF4/FARF5 addresses, the file address format (FARF3, FARF4, or FARF5) that is returned to you when the system requests a file address.

Distributed Relational Database Architecture (DRDA). A relational database connection protocol consisting of protocols for communication between an application and a remote database, and communications between databases.

DLC. Data link control.

DLL. Dynamic link library.

DLM. Dynamic load module.

DLQ. Dead-letter queue.

DLS. Device level selection.

DLSE. Device level selection enhanced.

DMT. Dispatch management table.

DNS. Domain Name System.

DOBT. Dynamic override bitmap table.

Document Object Model (DOM). The specification that allows an application to interact with XML data in memory as a tree structure. It allows you to dynamically traverse and update the XML document.

Document Type Definition (DTD). A type of schema. See also *Schema*.

DOF. Diagnostic output formatter.

DOM. Document Object Model.

domain name. In the Internet suite of protocols, a name of a host system. A domain name consists of a sequence of subnames separated by a delimiter character. For example, if the fully qualified domain name (FQDN) of a host system is `ralvm7.vnet.ibm.com`, each of the following is a domain name:

- `ralvm7.vnet.ibm.com`
- `vnet.ibm.com`
- `ibm.com`

Domain Name System (DNS). In the Internet suite of protocols, the distributed database system used to map domain names to IP addresses.

dormant subsystem user. A subsystem user that was included at initialization but has been deactivated because of an unsuccessful global load. A dormant subsystem user cannot be reactivated without reinitializing the system.

do statement. A C-language looping statement that contains the word `do` followed by a statement (the action), the word `while`, and an expression in parentheses (the condition).

DOT. Dump override table.

dot. A symbol (`.`) that indicates the current directory in a path name. The file name consisting of a single dot character (`.`). This file name refers to the directory specified by its predecessor. (POSIX.1)

dot-dot. A symbol (`..`) in a path name that indicates the parent directory. The file name consisting solely of two dot characters (`..`). This file name refers to the parent directory of its predecessor directory. For the TPF file system, dot-dot in the root directory refers to the root directory itself.

dotted decimal notation. A common notation for Internet host addresses that divides the 32-bit address into four 8-bit fields. The value of each field is specified as a decimal number and the fields are separated by periods (for example, `010.002.000.052` or `10.2.0.52`). See also *network byte order*.

double-byte character set (DBCS). A set of characters in which each character is represented by two bytes. Languages such as Japanese, Chinese, and Korean, which contain more symbols than can be represented by 256 code points, require double-byte character sets. Since each character requires two bytes, entering, displaying, and printing DBCS characters requires hardware and supporting software which are DBCS capable.

double precision. Pertaining to the use of two computer words to represent a number in accordance with the required precision.

DRDA. Distributed Relational Database Architecture.

DRIL. Data record information library.

DSA. Data save area.

DTD. Document Type Definition.

dump override table (DOT). A table containing both the static override bitmap table (SOBT) and the dynamic override bitmap table (DOBT). These tables contain information that determines which large storage areas are to be included in dumps for particular system errors.

duplicate module. In a fully duplicated system or a partially duplicated system, the disk module that contains the duplicate copies of records from the corresponding prime module.

duplicate record. When DASD records are duplicated, the two copies of a data record are called the duplicate record and the primary record. A duplicate record is synonymous with *backup record*.

DWARF. A debugging information format used to standardize the software interface for development tools across multiple operating environments.

dynamic address translation (DAT). In IBM virtual storage systems, the change of a virtual storage address to a real storage address during the processing of an instruction.

dynamic device reconfiguration (DDR). The process of recovering the contents of a tape control unit buffer so that the data can be written to a new tape.

dynamic link library (DLL). A collection of one or more functions or variables gathered in a load module and executable or accessible from a separate DLL application load module.

dynamic link library (DLL) application. An application that can reference imported functions or imported variables in a DLL.

dynamic load module (DLM). A load module with a single entry point.

dynamic load module (DLM) stub. A small object-code file that allows a DLM to call another real-time program. A DLM stub is created by the DLM stub generator tool (STUB).

dynamic LU resource. A remote LU resource that is defined to the TPF system using dynamic LU support.

dynamic LU support. Support that enables the TPF system to automatically create resource definitions for new remote LU resources and new ALS resources.

dynamic override bitmap table (DOBT). A table containing dump override bitmaps used to override the static override bitmap table. Entries in the DOBT are created by the ZIDOT command.

E

EAT. ECB activation table.

EBCDIC. Extended binary-coded decimal interchange code.

ECB. Entry control block.

ECB activation table (EAT). The structure used by the E-type loader that keeps track of how many ECBs exist for each activation number.

ECB-controlled program. (1) A program that requires an entry control block (ECB) for processing. It must be assigned a name; the BEGIN and FINIS macros must be the first and last source code statements, respectively. (2) A TPF program that is associated with the entry control block that it requires for execution. (Also known as an *E-type program*.)

ECB control table. The entry control block (ECB) control table keeps track of which ECBs are in use and the system virtual memory (SVM) address of each ECB.

ECB data levels. One of 16 pairs of data fields used by the ECB for I/O or main storage block manipulation.

ECB origin. An identifier that is used with selective activate user exits that allows you to limit the use of an E-type loader (ELDR) loadset. This identifier can be a terminal address, communication line number, port number, user ID, network control program (NCP), adjacent link station (ALS), NCP name, and others.

ECB private area (EPA). A segment of an address space that is allocated for the exclusive use of an ECB and its application set.

ECB register. The hardware register that contains the address of the ECB for an entry. By convention, the ECB register is register 9.

ECB virtual address (EVA). A location inside the virtual memory of an ECB.

ECB virtual memory (EVM). An address space that provides the only view of storage available to ECB-controlled programs. Each ECB runs in its own address space and has its own ECB virtual memory. Control program code may run in the EVM when acting for the ECB. (For example, enter/back is control program code that runs in the address space of the ECB.)

ECR. E-type loader control record.

ECT. ECB control table.

effective group ID. The group ID associated with the last setgid or setegid function. This is the group ID that is used to verify access permissions.

effective user ID. The user ID associated with the last `setuid` or `seteuid` function. This is the user ID that is used to verify access permissions.

electronic mail (e-mail). See *e-mail*.

element. (1) In TPF collection support (TPFCS), a subunit of a persistent collection. An element can consist of any data type, including binary strings and references to TPF files and other persistent collections. (2) A data object in an array. (3) In Extensible Markup Language (XML) an opening tag, a closing tag, and the contents between the two in an XML document. In the following example, there are three elements: `name`, `first`, and `last`:

```
<name>
  <first>Mickey</first>
  <last>Mouse</last>
</name>
```

element equality. A state in which two elements are equal in length and equal in bit sequence for an entire collection.

ELF. Executable and linking format.

else clause. The part of a C-language `if` statement that contains the word `else` followed by a statement. The `else` clause provides an action that is executed when the `if` condition evaluates to zero (false).

ELT. E-type loader record table.

e-mail. (1) Correspondence in the form of messages transmitted between user terminals or workstations over a computer network. (2) The generation, transmission, and display of correspondence and documents by electronic means. (A) (3) See *Internet mail*.

empty directory. A directory that contains, exclusively, directory entries for dot (`.`) and dot-dot (`..`).

empty string. A character array whose first element is a null character. (POSIX.1)

EMR. E-type loader master record.

emulator program (EP). A program that permits 37x5 transmission control unit hardware to run as a 270x transmission control unit.

end-of-message-complete (EOM). The message delimiter that indicates that the last or only segment of data in a message has been received or sent. Synonymous with *EOC (end-of-message-complete)*.

end-of-message-incomplete (EOI). The message delimiter that indicates that the message segment currently being sent or received is not the last.

end-of-message/pushbutton (EOP). The message delimiter, sent from special terminals that have this end-of-message function key, that indicates that the message is complete.

end-of-unsolicited message (EOU). The message delimiter that indicates that the last character of an unsolicited message has been received or sent.

enter/back macros. Macros used to transfer control to other ECB-controlled programs.

enterprise name. The user-specified name of an enterprise or operations center that forms the first part of the system ID.

entry. The term used to refer to the ECB created for each input message and all the processing required by that message. Entries can also be created by programs using create-type macros.

entry control block (ECB). A control block assigned to each input message/entry. It defines all resources allocated to process that entry and allows programs to be reentrant.

entry life. The amount of time an entry exists, measured from when the entry is made until its ECB is deleted.

entry point (EP). In TCP/IP offload support, a program entered by TPF CLAW system services when an asynchronous (unsolicited) event is generated by a CLAW workstation.

enumeration constant. An identifier (that has an associated integer value) defined in an enumerator. You can use an enumeration constant anywhere an integer constant is allowed.

enumeration data type. A type that represents integers and a set of enumeration constants. Each enumeration constant has an associated integer value.

enumeration tag. The identifier that names an enumeration data type.

enumerator. An enumeration constant and its associated value.

Environmental Record Editing and Printing (EREP) program. A program that makes the data (such as machine checks) contained in a system recorder file available for further analysis.

environment block. In TPF collection support (TPFCS), a temporary block that is created and returned by the `T02_createEnv` C function. A pointer to this block must be passed on every TPF collection support function call. The environment block specifies which data store and application to use to access collections.

EOC. End-of-message-complete. Synonym for *EOM* (*end-of-message-complete*).

EOCF/2. Extended Operations Console Facility/2.

EOI. End-of-message-incomplete.

EOM. End-of-message-complete.

EOP. End-of-message/pushbutton.

EOU. End-of-unsolicited message.

EP. Emulator program. Entry point.

EPA. ECB private area.

EPD. E-type loader program directory.

epilog. The code that gets executed each time a return from a function is processed. The epilog deallocates the storage allocated by the prolog, restores the calling program's registers, and returns to the calling function.

equate macros. Declarative macros that assign values to system parameters during the assembly process.

ERA. Error recovery action.

ERD. E-type loader rules database.

EREP. Environmental Error Record Editing and Printing.

error monitor mode. The condition that causes all errors that occur on a terminal interchange to be logged as they occur.

error recovery action (ERA) code. A code returned by a tape control unit describing the recommended error recovery action.

escape sequence. A representation of a character. An escape sequence contains the `\` symbol followed by one of the characters: `a`, `b`, `f`, `n`, `r`, `t`, `v`, `'`, `"`, `\`, or followed by one to three octal digits.

E-type loader. A program that loads E-type programs to the online system. It consists of an online and offline portion. Unlike the general file loader and the auxiliary loader, once you have loaded programs with the E-type loader, you can begin using the newly loaded programs without a re-IPL of the TPF system.

E-type loader control record (ECR). A processor-unique record containing the active loadsets for a processor.

E-type loader master record (EMR). A structure that is a type of work list used to serialize and keep track of E-type loader operations. The EMR is also used as a communication vehicle between processors.

E-type loader program directory (EPD). A structure used by the E-type loader that contains information about each program in a particular loadset.

E-type loader record table (ELT). A structure that contains the ordinal number of each available #OLDx fixed file record that can be dispensed to the E-type loader.

E-type loader rules database (ERD). A record that contains the default values for the E-type loader. These values can be altered to change the E-type loader for different environments.

E-type loader working record table (WRT). A structure that resides in main storage and acts as a cache for the E-type loader #OLDx fixed file records that are being dispensed or returned.

E-type program. An ECB-controlled program.

EVA. ECB virtual address.

event facility. A method for ECB-controlled programs to define an event that can be waited for or posted by all ECBs knowing the name of the event.

EVM. ECB virtual memory.

exchange identification (XID). During link activation for an SNA physical unit (PU-PU) session, IDs are exchanged for node identification. Negotiated link characteristics are then established.

exception handler. A catch block in a C++ application that catches an exception when it is thrown from a function enclosed in a try block. Try blocks, catch blocks, and throw expressions are the constructs used to implement formal exception handling in C++ applications. A set of routines used to detect deadlock conditions or to process abnormal conditions. An exception handler allows the normal running of processes to be interrupted and resumed.

exclude. The process by which a program is marked as being excluded from an E-type loader loadset. This effectively removes the program from the loadset.

exclusive lock. A means to inform a process that another process has access to a file and does not want to share access.

exclude function. The E-type loader function that removes 1 or more programs from a specified loadset.

executable and linking format (ELF). A portable object file format that is used to standardize the binary object interface across multiple operating environments.

executable file. A file suitable for execution. An executable file may be a program that has been compiled and link-edited, or it may be a shell script. A file that contains programs or commands that perform operations on actions to be taken. A regular file acceptable as a new process image file by the equivalent of the POSIX.1 exec family of functions, and, thus usable as one form of a utility. The standard utilities described in POSIX.1 as compilers can produce executable files, but other unspecified methods of producing executable files may also be provided. The internal format of an executable file is unspecified, but a conforming application shall not assume an executable file is a text file. (POSIX.2) A REXX exec.

executable script. In the TPF system, a type of executable file that can be used by the `tpf_fork` function to start a TPF application. An executable script is a file that contains readable text and statements that are interpreted. When the `tpf_fork` function is used to call an executable script, the first line of the executable script is parsed for the name of the TPF segment. The line must start with the `#!` characters, which is a UNIX shell convention. The access permission for the file must be set to execute. Internet servers typically use `tpf_fork` and executable scripts to run TPF applications.

exit vector. A user exit vector can consist of a SWISC expansion to an E-type program or an entry point address to a C-type program. User exit vectors are specified by MPIF functions (such as IDENTIFY and CONNECT).

exponent. A number, indicating the power to which another number is to be raised.

export. To make a function or variable available for dynamic access by other load modules. Dynamic link libraries (DLLs) export functions and variables. Exporting is accomplished in three ways: by specifying the EXPORTALL compiler options, by coding the `#pragma export` recompiler directive, or by qualifying a function or variable declarator with the `_Export` keyword.

expression. A representation of a value. For example, variables and constants appearing alone or in combination with operators.

extended binary-coded decimal interchange code (EBCDIC). A set of 256 8-bit characters.

extended locales. The locale definition files based on the localedef utility that is supplied with IBM C/C++ compilers on the IBM System/390 platform.

Extended Operations Console Facility/2. An IBM licensed program designed to provide licensed customers of the TPF system with enhanced console operations, such as the capability for automation and the ability to control and monitor multiple TPF host systems using a single workstation in an IBM Operating System/2 (OS/2) environment.

extended resident. A description for a collection in which TPF collection support (TPFCS) stores data using an extended structure. See also *extended structure*.

extended structure. An object containing only control information and pointers that TPF collection support (TPFCS) uses to sort or retrieve the data elements that an application has stored in a collection. The data elements themselves are contained in pool file records that are chained to the extended structure. The DASDINDEXPool object of the StructureDasd class is just one example of several kinds of extended structures.

Extensible Markup Language (XML). A metamarkup language that is used by the universal data display (UDD) to describe record layouts. It specifies each variable name, type, and length. XML uses user-defined tags and is similar to HTML. However, it addresses some of the limitations in the HTML language and is ideal for marking up data without regard to presentation. (The presentation is defined separately.) XML can be used for both publishing and data retrieval. Go to the W3C Web site at <http://www.w3.org/> to view the XML specification.

external data definition. A definition appearing outside a function. The defined object is accessible to all functions that follow the definition and are located within the same source file as the definition.

external function. A TPF E-type file resident application program written in C language.

external locking facility (XLF). A facility that is used by the TPF system to synchronize the updating of data records on its shared DASD database. The XLF has to be connected to and shared by all CPCs in a TPF loosely coupled complex. There are currently 2 XLFs supported by the TPF system. They are hardware features for the DASD control units. One of the features is the limited lock facility (LLF) and the other is the multi-path lock facility (MPLF) RPQ. TPF software support for MPLF is the concurrency filter lock facility (CFLF).

F

FACE. File address compute program.

FACE driver (DFAD). An offline program that is invoked to (1) compute the file address associated with a specific ordinal number and record type, or (2) print all computable file addresses with a specific version of the FACE table.

FACE table (FCTB). The main storage resident table used by the FACE program to calculate the address associated with a specific record type and ordinal number on fixed file storage.

FACE table generator. The offline module used to create the FACE table and other associated macros.

fallback. The E-type loader process of discontinuing the use of newly loaded programs and using the most recently activated version of the programs. See also *deactivate function*.

FANR field. Forward automatic network routing field.

FARF. File address reference format.

FARF3. A device-independent file addressing scheme used by the TPF system. FARF3 means file address reference format 3.

FARF4. A device-independent file addressing scheme that utilizes format type indicator (FTI) and universal format type (UFT) combinations allowing up to 1G (2^{30}) addresses. FARF4 means file address reference format 4.

FARF5. A device-independent file addressing scheme that uses format type indicator (FTI) and universal format type (UFT) combinations allowing up to 4G (2^{32}) addresses. FARF5 means file address reference format 5.

FARF6. A device-independent file addressing scheme that uses format type indicator (FTI) and universal format type (UFT) combinations allowing up to 64-petabyte (2^{56}) addresses. FARF6 means file address reference format 6.

FARW. File address reference word.

fast write. In 3990 caching control units, a write operation at cache speed that does not require immediate transfer of data to DASD. The data is written directly to cache, or to both cache and nonvolatile storage, and is available for later destaging.

FCT. Frame control table.

FCTB. FACE table.

FCTBG. FACE table generator.

FDOCA. Formatted Data Object Content Architecture provides data with a descriptor relevant to the data type and its representation.

FDT. File descriptor table.

FID. Format identification.

FIFO. First-in-first-out.

FIFO special file. (1) A type of file with the property that data written to such a file is read on a first-in-first-out format. (POSIX.1) (2) A named permanent pipe that allows two or more unrelated processes to exchange information through a pipe connection. Synonymous with *named pipe*.

file. A collection of data that is stored and retrieved by an assigned name.

file address compute (FACE) program. The system program that converts a fixed record type and ordinal number into a file address that can be used to retrieve the record.

file address reference format (FARF). The generic term for the TPF file address reference format, of which there have been several; for example, FARF3, FARF4, FARF5, and FARF6.

file address reference word (FARW). An 8-byte field in the entry control block (ECB) that is used to pass a file address reference between application and system programs. Every ECB has 16 FARWs, one for each data level. Additional FARWs are available by using data event control blocks (DECBs). DECBs contain 12-byte FARW fields that hold 8-byte file addresses.

file capture. See *capture*.

file collector. The data collection program that records (1) tape activity and (2) traffic between programs and the data stored in VFA, main storage, or disk files. This data is recorded on the data collection RTC tape for offline data reduction and analysis.

file creation mask. An object whose bits are used to prevent access permissions of a new file from being set when a file is created. If a bit is set in the file creation mask, the corresponding bit in the access permissions cannot be set. If a bit is not set in the file creation mask, the corresponding bit in the access permissions can be set.

file descriptor. In the TPF file system, a nonnegative integer used to identify a file. A file descriptor is created by opening a TPF file system file. See also *standard error* (stderr), *standard input* (stdin), *standard output* (stdout). See also *socket descriptor*.

file descriptor table (FDT). A control block structure located in main storage in the TPF system that contains status information about each socket descriptor obtained by TCP/IP offload support through socket and accept function calls. A control block structure located in main storage in the TPF system that contains status information about each file descriptor obtained by opening a TPF file system file.

file handle. Any identifier of a file, such as a path name or file descriptor.

file lock. A means to inform a process that another process has access to a file.

file mode. An object containing the file permission bits and other characteristics of a file. (POSIX.1)

file mode creation mask. See *file creation mask*.

file name. (1) A name consisting of 1 to NAME_MAX bytes used to name a file. The characters composing the name may be selected from the set of all character values excluding the slash character (/) and the null character. The file names dot (.) and dot-dot (..) have special meaning. Synonymous with *path name component*. See also *dot* (.), *dot-dot* (..). (POSIX.1) The final component of a path name. The file identifier stored in a directory entry. (2) The name used to identify a file.

file offset. The byte position in the file where the next input/output (I/O) operation begins. Each open file description associated with a regular file, block special file, or directory has a file offset.

file owner. The owner of a file as identified by the user ID (UID).

file permission bits. Information about a file that is used, along with other information, to determine if a process has read, write, or search permission to a file. The bits are divided into three parts: owner, group, and other. These bits are contained in the file mode. (POSIX.1)

file position indicator. Synonymous with *file offset*.

file recoup. See *recoup*.

file resident program. An ECB-controlled program that resides on file and is brought into main storage for online processing.

file restore. See *restore*.

file status table (FSTB). See *module file status table (MFST)*.

file system. A collection of files and directories. The collection of files and file management structures on a physical or logical mass storage device, such as a disk or disk partition. A single device can contain several file systems. A collection of files and some of their attributes.

File Transfer Protocol (FTP). In Transmission Control Protocol/Internet Protocol (TCP/IP), an application protocol used for transferring files to and from host computers. FTP requires a user ID and possibly a password to allow access to files on a remote host system. FTP assumes that the Transmission Control Protocol (TCP) is the underlying protocol.

finite state machine (FSM). A component of the TPF/APPC support that controls the sequence of verbs issued for a conversation.

first-in-first-out (FIFO). A queuing technique in which the next item to be retrieved is the item that has been in the queue for the longest time. (A)

fixed file records. Data records that are permanently assigned to specific functions (record types) and are accessed through the FACE/FACS programs, which use the FACE table.

fixed keypoint area. The area on each online module containing all the working records required to initialize the system.

fixed record. A variation of *fixed file record*.

fixed record type. The records associated with a set of data. The symbolic name given to the records associated with a set of data.

fixed storage. Refers to those areas of main storage in which sizes are determined at system generation. (In previous versions of the TPF system, this was known as *permanent core*). Contrast with *working storage*.

float constant. A constant representing a non-integral number.

FMMR. Functional management message router.

format identification (FID) field. The field in an SNA path information unit (PIU) that is used to identify the format in which the PIU was encoded.

format type indicator (FTI). A variable-sized bit field in FARF4, FARF5, and FARF6 address formats. See *universal format type*.

Formatted Data Object Content Architecture (FDOCA). An architecture that provides data with a descriptor relevant to the data type and its representation.

forward automatic network routing (FANR) field. A list of automatic network routing (ANR) labels that represent the path from one rapid transport protocol (RTP) endpoint to another for an RTP connection.

frame. A 4K (KB) unit of real memory that corresponds to a page. It does not have a format flag and is not a TPF block.

frame control table (FCT). In virtual storage, 128-, 381-, 1055-, and 4095-byte working storage blocks are allocated from a single pool of 4K frames. The frame control table keeps track of which frames are in use, how blocks are allocated in each frame, and which of the blocks in each frame are in use.

fresh load. The part of restart that is activated on the first IPL, after a load of the SNA pilot tape, or upon failure of a nonfresh load. Various SNA tables are reloaded and reinitialized. Contrast with *nonfresh load*.

front-end processor. A TPF system attached to the data communications network. The front-end processor routes some or all input messages to other front-end, back-end, or non-TPF systems; it may perform some message recovery processing, typically has few DASD, does little I/O, and maintains short path lengths. In addition, a front-end processor has limited requirements for a database. Contrast with *back-end processor*.

FSC. Functional support console.

FSM. Finite state machine.

FSTB. See *module file status table (MFST)*.

FTI. Format type indicator.

FTP. File Transfer Protocol.

full load. A software load where every system component is loaded.

full scale. In program test vehicle (PTV), a gradient of program testing that allows multithread testing with simulation of the full environment in which the application programs operate. Also see *package unit* and *transaction unit*.

full-duplex. In data communication, a mode in which data can be sent and received at the same time.

fully duplicated file. A database where all fixed and pool records are duplicated across modules. Contrast with *selectively duplicated files* and *nonduplicated files*.

function. A named group of statements that can be invoked and evaluated and may can return a value to the calling statement.

functional message. See *command*.

function declarator. The part of a function definition that names the function, provides additional information about the return value of the function, and lists the function parameters.

function definition. The complete description of a function. A function definition contains an optional storage class specifier, an optional type specifier, a function declarator, optional parameter declarations, and a block statement (the function body).

function descriptor. An internal control block that contains the function address and its associated writable static area (WSA). In the TPF system, a function descriptor can be thought of as a dynamic linkage call stub in contrast to the static linkage call stubs that are generated offline by the dynamic load module (DLM) stub generator tool (STUB) and the library interface tool (LIBI) before link-edit time.

function management message router (FMRR). A system facility used to forward messages to remote TPF hosts.

functional support console (FSC). CRAS terminals designated to receive messages related to a specific function; sometimes called a functional CRAS console.

G

GDS. General data set.

general data set (GDS). An MVS BSAM data set that provides a data interface between offline and online system components; records are allocated sequentially; compatible with an MVS data set in the same module. The data set is allocated and initialized by MVS and is read and updated by the TPF system.

general file (GF). A TPF general file is used to maintain one or more groups of logically related records organized in a sequential manner. It is created offline under MVS control but is not compatible with any MVS data structure. There are three types of general files: loader, pool, and recoup.

general file loader. A program that loads TPF components to the loader general file in order to initialize or update the online TPF system. The general file loader is capable of loading a complete set of the TPF system software (full load) or selected components (short load), but can only be used to copy items into image number 1. It consists of an offline and online portion; the offline portion creates the loader general file, and the online portion copies the contents of that file into the online modules of the TPF system. See also *auxiliary loader* and *E-type loader*.

general file pack. A disk pack that contains 1, 2, or 3 general file data sets.

general macros. Macros that provide system services (such as performing alphabetic scans, using tape drives, or handling input and output), control application programming processing (such as entry creation), and control events for resource sharing (such as posting and waiting, queuing and dequeuing).

general tapes. Input and output tapes that allow an application to create consecutive files and scan records according to logical sequence. These tapes may be concurrently accessed by multiple ECBs, but are under the exclusive control of only 1 ECB at a given time.

general use C/C++ language header files. Header files that are available for general use and include function prototypes and related definitions that may be used by any application program.

get file storage (GFS). A macro for requesting pool file addresses. For TPF collection support (TPFCS), the TPF system must have GFS pools enabled before the ZBROW and ZOODB commands can be used. The system must be cycled above CRAS state before pools are enabled.

GF. General file.

GID. Group ID.

global area. A portion of fixed main storage for storing critical, frequently accessed data. It provides efficient access by the control program or applications. Each global area is assigned a symbolic name, the first character of which is the @ character. Also referred to as *globals*.

global field. An addressable unit of storage in the global area.

global macros. The macros that allow applications to access and update data held in the global area.

global records. Blocks of data in the global area divided by function (type of data) or by the size of the physical file record from which the data is loaded into main storage.

globals. In TPF, the concept of shared, protected, system-allocated main storage designed to permit sharing of values between application and/or system components. See *global area*.

global symbol sharing. Global areas sharing global information throughout the system while restricting the number of areas where information resides.

global synchronization. The process where global fields and records shared by 2 or more active I-streams in a multiprocessor system (tightly coupled or loosely coupled) are dynamically maintained to contain the same values.

GMT. Greenwich mean time.

Greenwich mean time (GMT). The time broadcast by the National Bureau of Standards. Also known as Universal Time, Coordinated (UTC).

group. A collection of users who can share access authorities for protected resources. (OSF)

group code. Term used to define the routing indicator or address that designates more than 1 receiver or terminal.

group ID (GID). A nonnegative integer that is used to identify a group of related users.

H

handle. A number that uniquely identifies an object. For a dynamic link library (DLL), the number uniquely identifies the requested DLL for subsequent explicit requests for that DLL. A different handle is returned for each successful call to the `dllload` function.

hardening. In TPF transaction services, the process in which data is written to DASD and any locks that were held by the commit scope are released.

hard error. An error condition detected by hardware or software that remains an error after a predetermined number of retries. Contrast with *soft error*.

hard link. A directory entry to a file. A directory must have one, and only one, hard link to it other than dot (.) and dot-dot (..). Other files must have one but may have more hard links to each of them.

hard IPL. The loading of the TPF system; activated from the service processor. Contrast with *software IPL*.

HCT. Hotcon table.

head. The first of a chain of records.

header file. A file that contains commonly used definitions and declarations. The file is included in application source code by means of the `#include` preprocessor directive. The `#include` statement is replaced with the contents of the header file (also known as the include field) at compile time.

heap private area. Contiguous storage above the 16-MB line that is available to ECBs through the use of the `CALOC`, `MALOC`, `REALLOC`, and `FREEC` assembler macros and their corresponding C language functions.

heap storage. The total memory pool from which an application may obtain memory through a dynamic allocation request. The TPF system uses heap storage for the heap private area in the ECB virtual memory above the 16-MB line.

heterogeneous collection. A collection in which all elements have the same displacement to the persistent identifier (PID) or file address and can be recouped in the same way.

hexadecimal. A base sixteen numbering system; hexadecimal digits range from 0 through 9 and uppercase or lowercase A (ten) through F (fifteen).

hexadecimal constant. The characters `0x` or `0X` (zeroX) followed by any digits 0 to 9 and uppercase or lowercase letters A to F.

hierarchical file system. A file system where each directory must have one, and only one, hard link to it and, as a result of this restriction, the directories are organized in a hierarchy (rather than a mesh).

High Performance Option (HPO). A TPF feature that consists of the loosely coupled facility and the multiple database function (MDBF).

high-performance routing message table (HPRMT). A core-resident table used to save output messages sent over rapid transport protocol (RTP) connections so the output messages can be retransmitted if the remote RTP endpoint makes this request.

High-performance routing session address table (HPRSAT). A core-resident table used to map the session address (SA) from a network layer packet (NLP) to the appropriate session resource vector table (RVT) entry. There is one entry in the HPRSAT for each LU-LU session started using HPR support.

high-performance routing (HPR) support. An addition to TPF Advanced Peer-to-Peer Networking (TPF/APPN) support that enhances data-routing performance and session reliability.

high-speed. High-speed lines are used in the TPF system to refer to ALC and SLC lines that operate at 9600 baud, in contrast to low-speed lines that operate at rates as low as 75 baud.

home page. The initial Web page that is returned by a Web site when a user specifies the uniform resource locator (URL) for the Web site. For example, if a user specifies the URL for the IBM Web site (<http://www.ibm.com>), the Web page that is returned is the IBM home page. Essentially, the home page is the entry point for accessing the contents of the Web site. The home page may sometimes be called the *welcome page* or the *front page*.

homogeneous collection. A collection in which not all elements contain an embedded file address or persistent identifier (PID) or the displacements are different; that is, not all elements can be recouped in the same way.

hop. A link crossed on a path from 1 host or NCP subarea to another.

hop count. The number of links crossed on a path from 1 subarea to another.

horizontal allocation. When allocating record space on DASD, logically adjacent records are allocated to different physical devices. Contrast with *vertical allocation*.

host application. An application on a TPF host processor that is used to establish a Common Link Access to Workstation (CLAW) connection with an application on a CLAW workstation.

host byte order. The order in which the bytes of all binary integers are stored in a particular machine. In the TPF system, the host byte order used for integers being sent across a TCP/IP network is the same as the network byte order. See also *network byte order*.

host name. A name assigned to a TPF host processor used in a TCP/IP network to identify that TPF host processor.

host node. An SNA term indicating a combination of a CPU and an associated channel attachment that hosts functions for other processors.

host node LU. An SNA logical unit (application) residing in a host processor as contrasted with a peripheral logical unit that resides in a cluster controller or network control program.

hotcon. Hot conversation or hot connection, depending on the communication protocol used.

In LU 6.2, a TPF Advanced Program-to-Program Communications (TPF/APPC) conversation that remains allocated and active past the completion of the transaction. The TPF/APPC conversation parameters between TPF Application Requester (TPFAR) and the DB2 system are saved in an entry in the hotcon table (HCT). When another entry control block (ECB) requests a conversation with the same remote application server, TPFAR reuses the active conversation.

In Transmission Control Protocol/Internet Protocol (TCP/IP), a TCP/IP connection that remains active past the completion of the transaction. The socket descriptors are saved in an entry in the hotcon table (HCT). When another entry control block (ECB) requests a connection with the same remote application server, TPF Application Requester (TPFAR) reuses the active connection.

HPO. High Performance Option.

HPRMT. High-performance routing message table.

HPRSAT. High-performance routing session address table.

HPR support. High-performance routing support.

I

IA. Interchange address.

IATA. Interchange address/terminal address.

IBMPAL. IBM program allocator list.

IBM program allocator list. A list of IBM-supplied programs to be loaded into the online TPF system (previously called the system allocator list [SAL]).

IBM 3172 Model 3 Interconnect Controller. An offload device between the TPF system and local area networks (LANs). The 3172 Model 3 Interconnect Controller provides interfaces from the TPF system to the transport and internet layers of Transmission Control Protocol/Internet Protocol.

ICDF. In-core dump formatter.

ICELOG. A TPF macro that is used to generate an epilog in C library functions written in assembler. ICELOG is used to return from a C library function. The macro generates code to restore the registers saved in the preceding ICPLUG macro call. If a stack frame was allocated, it is released.

ICL. ISO-C link table.

ICLANC. A TPF macro that has two functions: (1) to produce the secondary directory, which contains the entry points to the secondary library routines (the GEN option); and (2) to generate linkage to a secondary library routine (the LINK option).

ICPLOG. A TPF macro that is used to generate a prolog in C library functions written in assembler. ICPLOG must be coded immediately after the BEGIN statement. The generated prolog is used to store registers and allocate a stack frame.

ICR. Image control record.

IDCF. Internet daemon configuration file.

IDCT. Internet daemon configuration table.

IDL. Interface definition language.

identifier. A sequence of letters, digits, and underscores used to designate a data object or function.

IHR. Image history record.

image. One of a number of selectable versions of the TPF system software, consisting of an IPL area, core image restart (CIMR) area, E-type program area, CTKX, and keypoint staging area.

image control record (ICR). A record containing image and processor status information that resides at fixed location record 2, cylinder 0, track 1 on each pack.

image history record (IHR). A record containing the current load status for IPLA, IPLB, CTKX, and all of the CIMR components for all of the images.

image pointer record (IPR) (CTKX). An image-unique structure that contains information on keypoints and core image restart area (CIMR) components.

IMAP. Internet Message Access Protocol.

immediate-file. A VFA attribute. When a file-type macro is issued for a record that has the immediate-file attribute, the record is written out to DASD immediately. Contrast with *delay-file*.

implementation-specific C/C++ language header files. Header files used by only IBM and the TPF system. These header files are internal to the implementation of certain C/C++ functions.

import. To dynamically access a function or variable that is exported by a dynamic link library (DLL). DLL applications and DLLs import functions and variables. Ordinarily, importing is handled implicitly by the compiler, prelinker, and the C run-time environment. You can also call run-time library functions to explicitly load and unload DLLs, and import functions or variables from them.

in-core dump formatter (ICDF). A program that formats main storage dumps online when the system error options indicate that dumps are to be routed to the system printer.

inactive processor. A loosely coupled processor that is temporarily not being used. An inactive processor can be reactivated.

inactive subsystem. A subsystem that was included during initialization but is currently not in use because of a system error. The error condition must be corrected before the subsystem can be reactivated.

include. See `#include`.

include file. See header file.

index. For persistent collections, a relative offset into a collection.

index record. See *key record*.

in-doubt unit of recovery. In MQSeries, a sender channel in the TPF system requests confirmation from a remote receiver channel that all messages in the current batch were received on the remote side. Until the remote channel sends confirmation of the batch being received, the sender channel is considered in doubt.

inheritance. A technique that allows you to use an existing class as the base for creating other classes. Objects inherit attributes from the top (or base) class.

initialize. To set the starting value of a data object.

initializer. The assignment operator followed by an expression (or multiple expressions, for aggregate variables) used to set the initial value of a data object.

i-node. An object in a file system that represents a file. There is a one-to-one correspondence between an i-node and a file.

input. Data to be processed.

input list. A CPU loop list containing work items for new input messages that need an ECB in order to be processed. The CPU loop interrogates the input list after the ready list processing has completed.

input/output block (IOB). A control block created by the control program to schedule, control, and hold information required to process a DASD I/O operation. See also *system work block*.

instance. A specific existing example of an object.

instruction-stream. See *I-stream*.

instruction-stream engine. See *I-stream engine*.

integer. A positive or negative whole number or zero.

integer constant. A decimal, octal, or hexadecimal constant.

integral object. A character object, an object having an enumeration type, an object having variations of the type `int`, or an object that is a bitfield.

interchange address (IA). The term used to identify the terminal interchange that controls a cluster of terminals. The IA is a part of the ALC address format.

interface definition language (IDL). In RPC, the language that describes the set of procedures (the interface definition) that is contained in the `.idl` file.

internal data definition. A description of a variable appearing at the beginning of a block that causes storage to be allocated for the lifetime of the block.

internal function. See *static function*.

internally synchronous. The condition when each clock on an I-stream in a CPC is synchronous with the master clock on the CPC.

Internet. The worldwide collection of interconnected networks that use the Internet suite of protocols and permit public access.

Internet daemon. A daemon that monitors the Internet Protocol (IP) network for incoming traffic, such as Transmission Control Protocol/Internet Protocol (TCP/IP) and User Datagram Protocol (UDP).

Internet daemon configuration file (IDCF). The #IBMM4 fixed file records that contain definitions for all the Internet server applications defined to the Internet daemon. The IDCF is subsystem unique and processor shared. The IDCF is created and managed using the ZINET commands.

Internet daemon configuration table (IDCT). A table in the system heap that contains entries for each Internet server application that the Internet daemon has started. The IDCT contains all the information found in the Internet daemon configuration file (IDCF) plus additional fields to maintain Internet daemon state information.

Internet daemon listener. A major component of the Internet daemon in the TPF system that creates and monitors a socket for the Internet server application for a specify Internet Protocol (IP) address. See also *Internet daemon* and *Internet daemon monitor*.

Internet daemon monitor. A major component of the Internet daemon in the TPF system that is responsible for starting and stopping the Internet daemon listeners for Internet server applications and for error recovery when an Internet daemon listener fails. See also *Internet daemon* and *Internet daemon listener*.

Internet mail. Correspondence in the form of messages transmitted over the Internet. Synonym for *e-mail*.

Internet Message Access Protocol (IMAP). In the Internet suite of protocols, an application protocol that allows a client to access and manage Internet mail on a server. It permits management of remote message folders (mailboxes) in a way that is functionally equivalent to local mailboxes. IMAP includes operations for creating, deleting, and renaming mailboxes and submailboxes; checking for new messages; permanently removing messages; searching; and selective fetching of message attributes, texts, and portions thereof. It does not specify a means of posting mail; this function is handled by a mail transfer protocol such as Simple Mail Transfer Protocol (SMTP). See also *Simple Mail Transfer Protocol (SMTP)* and *Post Office Protocol (POP)*.

Internet Protocol (IP). A protocol that provides the interface between higher-level protocols, such as TCP, and the physical-level protocols, also referred to as the network interfaces.

Internet Protocol address processor shared table (IPAST). A table that contains information about each active native stack Internet Protocol (IP) address in the loosely coupled complex and is used by Domain Name System (DNS) server support.

Internet Protocol address table (IPT). The Internet Protocol table is a control block structure located in main storage in the TPF system. It contains information about each TCP/IP offload device and their associated interfaces with the internet or IP addresses. An IPT entry is obtained whenever the TPF system issues a `c1aw_connect` function call to an offload device.

Internet Protocol message table (IPMT). A table that contains the input and output messages for sockets that use TCP/IP native stack support.

Internet Protocol routing table (IPRT). A table that associates a TPF client local IP address with a specific remote IP address or a subset of remote IP addresses.

Internet router. A device that enables an Internet Protocol (IP) host to act as a gateway for routing data between separate networks that use a specific adapter.

internetworking. Communication between two or more networks.

Interprocedural Analysis (IPA). A process for performing optimizations across compilation units.

interprocessor communications (IPC). The program facility used to transfer system data, control commands, and messages between CPCs or I-streams in a loosely coupled complex. In the TPF system, IPC uses the Multi-Processor Interconnect Facility (MPIF) feature as a transport medium for system data, control commands, or messages being sent to a different CPC.

interrupt stack. The list of information fields that describe I/O interrupts that have occurred but have not been analyzed.

inter-user communication vehicle (IUCV). A facility, defined by a specific structure, for passing data between programs.

intranet. A secure, private network that integrates Internet standards and applications (such as Web browsers) with an organization's existing computer networking infrastructure.

IOB. Input/output block.

IP. Internet Protocol.

IPA. Interprocedural Analysis.

IPAST. Internet Protocol address processor shared table.

IPC. Interprocessor communications.

IPL virtual memory (IVM). This virtual memory is used by IPL and CCCTIN. It is essentially the same as the system virtual memory (SVM). The SVM is built from the IPL virtual memory during CCCTIN processing. The primary distinction between SVM and IVM is the address of the I-stream unique globals.

IPMT. Internet Protocol message table.

IPR. Image pointer record.

IPRT. Internet Protocol routing table.

IPT. Internet Protocol address table.

ISA. ISO-C assembler function table.

ISC. ISO-C source table.

ISO-C assembler function table (ISA). A table that is built by coding the SPPBLD macro. It contains all ISO-C assembler function file names with their associated version numbers.

ISO-C link table (ICL). A table that is built by coding the SPPBLD macro. It contains all ISO-C load module names (library and application) with their associated version numbers.

ISO-C source table (ISC). A table that is built by coding the SPPBLD macro at SIP time. It contains all ISO-C source file names with their associated version numbers. This table is used to create the MASM jobs needed to compile the ISO-C source code.

ISO-C stub table (IST). A table that is built by coding the SPPBLD macro; it contains all the program names that can be entered by any C load module. The names are 4 characters in length, without the 2-character version. The table is entered into the stub generator, which produces object library entries for each program.

IST. ISO-C stub table.

I-stream. An IBM central processing unit (CPU). Although there is a conceptual distinction between I-stream and I-stream engine, in the TPF system the terms are used synonymously.

I-stream engine. Synonym for *I-stream*.

I-stream engine 2. In a multiprocessing environment, the I-stream engine assigned to handle input/output for the MPIF feature.

iteration order. The order in which elements are visited by using cursor C functions such as T02_allElementsDo and T02_next in a persistent collection.

IUCV. Inter-user communication vehicle.

IVM. IPL virtual memory.

J

Job Control Language (JCL). Control language used to describe a job and its requirements to an operating system.

K

key. In persistent collections, a key is an identifier that helps to organize and access elements in a collection.

key bag collection. A type of collection with unordered, nonunique elements that are accessible by a nonunique key.

key-controlled protection. When key-controlled protection applies to a storage access, a user may store information into a location only when the storage key matches the access key associated with the request for storage. A user may fetch information only when the keys match or when the fetch-protection bit of the storage key is zero.

keyed log collection. A type of collection with ordered, nonunique elements that are accessible by a nonunique key. Elements are ordered by arrival sequence. The collection cannot be expanded and the elements will wrap when the collection becomes full; that is, the newest element will replace the oldest element in the collection.

key path. A structure that allows a particular element to be quickly accessed by a field value, and allows sequential access to elements, by a field, when iterating through a collection.

key path field. A field specified by the displacement to, and length of, contiguous bytes within the data elements of a collection that will be used as a key for an alternate key path.

keypoint. A critical control program record, or field in a record, with a backup on DASD. To update the DASD copy of a keypoint record.

keypointable. The attribute of any data field or data record that can change dynamically during online operations. Therefore, the data must be saved; that is, keypointed in the event of system outage.

keypoint backup area. An image-shared area used to save a copy of the working area when keypoints are moved from the staging area to the working area.

keypoint staging area. An image-unique area used to preload keypoints. The contents of this area can be moved into the working area of keypoints prior to an IPL.

keypoint working area. An image-shared area that contains the working copy of all of the keypoints.

key record. A pool record that is arranged in a tree-like structure by which TPF collection support (TPFCS) sorts the keys and locates the data record containing the data element that corresponds to each key. Synonymous with *index record*.

key set collection. A type of collection with unordered, nonunique elements that are accessible by a unique key.

key sorted bag collection. A type of collection with elements with nonunique keys. The keys are sorted in ascending binary order.

key sorted set collection. A type of collection (also known as dictionary) with ordered elements that are accessible by a unique key. The element values are nonunique. Elements are ordered in ascending sequence by the key.

keyword. A reserved C language word.

L

label. An identifier followed by a semicolon and is the target of a goto statement.

labeled statement. A C language statement that contains one or more identifiers each followed by a colon and a statement.

LAN. Local area network.

language work area (LWA). An I-stream unique work area used by C language secondary library routines.

LC. Loosely coupled.

LCB. Link control block.

leap seconds. The adjusted difference between Greenwich mean time (GMT) and the time established as Absolute Time by the National Bureau of Standards.

LEID. In communications, the logical endpoint identifier. In coupling facility (CF) support, the list entry identifier.

LFW. Library function work area.

LGF. Loader general file.

library. A collection of functions, function calls, subroutines, or other data.

library function. A function available to all C application programs that provides the programmer with a generic service, such as determining the length of a string of characters. Library functions are provided so that C application programs can link to generally available service routines to perform their tasks.

library function work area (LFW). Part of the first stack frame attached to an ECB that is used by C library functions.

library interface scripts. Files that list functions contained in a library and provide an index number for that function. These files are used by the library interface tool (LIBI) to create library stubs.

library members. Files of object code that are components of library load modules (LLMs) or dynamic link libraries (DLLs). For example, CASSART is a library member file of CISO.

library work space. A performance-critical macro area that is used by library functions that need storage to build macro expansions and do not give control to any other real-time segments while macros are running.

LIBVEC. A vector of library function addresses defined by the library interface script and linked into the library load module. It is used in the call linkage to library functions.

limited lock facility (LLF). A hardware RPQ required for DASD control units shared among multiple CPCs in a loosely coupled multiprocessing environment. It is used to synchronize the modification of the shared database. See also *external locking facility (XLF)*.

limited resource session. An SNA session that traverses a switched link and can be deactivated by the LU when it is no longer being used by a conversation.

line multiplexing. The ability to support multiple terminals on a communication line.

line status table (LSTB). The system table that contains entries for every non-SNA communication line in the network. The system uses this table to control I/O from non-SNA sources in the network.

link. In the TPF file system, a connection between one or more file names and an associated i-node. Synonym for *directory entry*. To interconnect items of data or portions of one or more computer programs; for example, the linking of object programs by a linkage editor or linking data items by pointers. (T)

linkage editor. A program that resolves cross-references between separately compiled object modules and then assigns final addresses to create a single load module.

link control block (LCB). A record used to indicate correct or incorrect reception of an SLC data message block and to provide information regarding the status of an SLC link.

link-edited modules. The files of load module code produced by the linkage editor.

list entry. An entry on a list in a coupling facility (CF) list structure. A list entry consists of list entry controls and can also include a data entry, an adjunct area, or both. See also *adjunct area* and *data entry*.

list entry controls. Items that contain control information that is associated with a list in a coupling facility (CF) list structure. See *list entry*.

list entry identifier (LEID). An identifier assigned by the coupling facility (CF) to each list entry that is in use in the CF list structure.

list header. A header that anchors the list to the coupling facility (CF) list structure and contains control information (known as list controls) that is associated with the list. See also *list controls*.

list notification vector. An array of bits that contain an indication of whether a monitor list in a coupling facility (CF) is in an empty state or a nonempty state.

list processing. The cyclic dispatching routine performed by the CPU loop that allocates system resources to entries on a first-in-first-out basis.

lists. Queues of work to be processed by the CPU loop.

list structure. See *coupling facility list structure*.

listener. A TCP/IP application that monitors information about incoming network connections.

little endian. A method of representing data such that the lower numbered bytes of the data are less significant. Intel-based personal computers (PCs) and IBM RISC System/6000 machines use this format.

live testing. The online testing procedure that uses terminal input rather than simulated batch input.

LLF. Limited lock facility.

LM. Logon manager.

LMA. Long message assembly.

LMT. Long message transmitter.

LNIATA. The line number, interchange address, and terminal address used to address a remote device in an ALC network.

load. The process by which programs are read from an input device by one of the loaders. See *auxiliary loader*, *E-type loader*, *general file loader*, and *data loader*.

load balancing. The system routine that decides which I-stream engine is to process an entry based on the activity in all I-stream engines in the CPC.

load deck. The control cards or card image input used to create all load media (including loader general files).

loader general file (LGF). The disk module that contains programs and keypoints required to initialize a system. It is a sequential collection of records created offline under MVS control.

load function. The E-type loader function that reads sets of programs from an input device.

load module. All or part of a computer program in a form suitable for loading into main storage for execution. A load module is usually the output of a linkage editor.

loadset. A group of programs identified by a unique name on which E-type loader functions can be performed.

loadset directory (LSD). The structure used by the E-type loader that contains information about every loadset in the system.

local area network (LAN). A computer network located within a limited geographical area.

local cache buffers. Buffers allocated by logical record cache support that contain copies of data that is shared among cache users. Users read data from permanent storage to their local cache buffers and write data from their local cache buffers to permanent storage.

local cache vector. An array of bits that contain an indication of whether data in the local cache buffer is valid. There is one local cache vector for each cache user.

local symbol table. In expression enhancements for the TPF debuggers, a table that contains all symbols included in the assembler program and the data macros (DSECTS) the program invokes except for those symbols that are defined in the common symbol table. The TPFSYM offline program extracts DSECT or symbol definitions from the SYSDATA file that is generated by the assembler and saves the definitions in the ADATA file. The offline loader then loads the ADATA file to the TPF system.

locale. Characteristics of the geographic area, such as time zone, character editing, monetary symbols and formatting, and nonmonetary formatting. The locale definition is built using the EDCLOC assembler macro. The `setlocale` function is used to select alternate locales.

localedef utility. A utility that processes locale definition files and produces the locale load modules.

locate. A modified REQTAL logon manager private protocol RU used by the TPF system to solicit a SESINIT session initiation RU. See *locate reply*.

locate reply. A modified SESINIT logon manager private protocol RU used by the VTAM logon manager to respond to a TPF Locate request. It contains a BIND image for the TPF system to send on the link specified as the last tail in the tail vector.

lock. A serialization mechanism by which a specific resource is restricted for the use of the holder of the lock.

lock holder. A processor or processors that currently hold a lock.

lock table. An array of exclusive locks that you can use to serialize access to coupling facility (CF) list structure resources such as lists or list entries. See *coupling facility (CF) list structure*.

lock waiter. A processor or processors waiting to obtain a lock.

log. (1) A file that contains messages issued from an application or system program. (2) To record; for example to log all messages to tape. (3) See also *syslog daemon*.

log collection. A type of collection with ordered, nonunique elements that are not accessible by a key. Elements are ordered by arrival sequence. The collection cannot be expanded and the elements will wrap when the collection becomes full; that is, the newest element will replace the oldest element in the collection.

log manager. A manager that controls the recovery log and recovery actions.

log processor. In TPF transaction services, the program that allows a user to log on to an application.

LOGI state. The state a terminal is in when it is not connected (logged in) to an application.

logical address. The address found in the instruction address portion of the program status word (PSW). If address translation is off, the logical address is the real address. If address translation is on, the logical address is the virtual address. See also *absolute address*, *physical address*, *real address*, and *virtual address*.

logical record cache. A cache that provides high-speed access to data, which enables you to develop data sharing programs with improved performance. You can use a logical record cache for data consistency, which ensures the validity of the data that is shared, and to keep track of data that resides in permanent and local storage, but is not stored in the cache itself.

logical DASD subsystem. A subsystem consisting of 2 storage directors, attached to the same DASD strings, together with those DASD strings.

logical endpoint identifier (LEID). An identifier that is used to give a resource a pseudo line, interchange address, and terminal address.

logical link. A path for data to be transmitted between an adapter on a CLAW workstation and the TPF system.

logical processor. The symbolic identification assigned to a processor in a loosely coupled complex.

logical storage block. Temporary main storage requested by an E-type program, dispensed in fixed sizes of 128, 381, 1055, and 4095 bytes. See also *TPF block*.

logical unit of work. See *unit of work*.

logon manager (LM). A VTAM application that provides logon services for the TPF system. The TPF system communicates with the logon manager regarding the status of its applications on CLU sessions.

long constant. An integer constant followed by the letter l (el) or L.

long message assembly (LMA). The process by which segmented SNA and non-SNA input messages are assembled into one unit.

long message transmitter (LMT). A program package that is used to queue and transmit long, non-SNA messages to ALC printer devices. LMT is also known as the SENDL postprocessor.

long-term pool records. Pool records that are maintained for an indefinite period of time, at least longer than the life of a transaction.

longevity. The length of time (seconds, hours, days, weeks, months) during which file pool records are maintained.

lookaside storage buffer. A temporary storage area where a copy of the data is saved to avoid refetching the data on every access. The data is retrieved from the temporary storage area instead of its permanent residence.

loosely coupled complex. Two or more CPCs sharing a common set of DASD and using an external lock facility (XLF) to synchronize multiple CPC access to the DASD records.

loosely coupled (LC) facility. A function in the High Performance Option (HPO) feature that allows multiple CPCs to share a common database.

low address protection. A hardware facility that provides protection against the destruction of main storage information used by the CPU during interrupt processing; accomplished by prohibiting instructions from storing with effective addresses in the 0–511 range.

LSD. Loadset directory.

LSTB. Line status table.

LUWID. Logical unit of work identifier.

lvalue. An expression that represents a data object that can be both examined and altered.

LWA. Language work area.

LWS. Library work space.

M

macro. Synonym for macroinstruction.

macro decoder. The program that interprets SVC requests for control program services.

macro identifier. The byte in an SVC macro instruction used by the TPF system to locate appropriate control program services.

macroinstruction. An instruction that when executed causes the execution of a predefined sequence of instructions in the same source language.

macro invocation. An identifier followed by a parenthesized list of arguments that the preprocessor replaces with the replacement code located in a preprocessor define statement.

main function. A function that has the identifier `main`. In non-TPF systems, each program must have exactly one function named `main`, which is the first user function that gets control when program execution begins. TPF does not allow the use of a `main` function, and will flag it as an error, if defined.

mail. See *e-mail* and *Internet mail*.

mail account. In TPF Internet mail server support, a user with a mailbox.

mailbox. A file storage area that holds electronic mail (e-mail).

mail item. A single piece of electronic mail (e-mail).

mail queue. A list used for Internet mail that keeps track of mail items to be delivered.

main I-stream engine. In a CPC with multiple I-stream engines, the I-stream that executes most non-DASD-related I/O commands and the only I-stream engine that can be IPLed. When the MPIF feature is installed and 2 or more I-stream engines exist, MPIF I/O commands are executed on the second I-stream. Contrast with *application I-stream engine*.

main storage allocations lists. The lists of available block addresses, in each block type, that are used by the control program when programs request or release main storage.

major device number. A number that locates a device driver.

mapping. (1) A data organization procedure that binds application data to a unique hardware address. (2) The programs that permit a user to format and control the data routed between a terminal and an application, or between applications.

MASM. Multiple assembler.

master clock processor. The processor that controls the complex's TOD time and date changes in a loosely coupled system. The master clock processor is usually the first active processor in a loosely coupled system. In 1052 state, the processor where the ZATIM TOD command is entered becomes the master clock processor.

master extra program record. The record used to control the pool of extra program records. Extra program records are the fixed file records within the #XPRGn record type.

master synchronization source. The originator of the oscillator pulses that keep all the TOD clocks in a loosely coupled complex synchronized.

matrix. An array arranged in rows and columns.

MBI. Message block identifier.

MCA. Message channel agent.

MCR. Message control record.

MDBF. Multiple database function.

member. (1) A data object in a structure or a union. (2) A file of object code that is a component of a dynamic load module (DLM), dynamic link library (DLL), or library load module (LLM).

messages. Transactions or entries received by a TPF system for immediate action. TPF system messages (system errors) such as dump messages, and online and offline messages are intended for operators and system programmers responsible for operating and maintaining the TPF system.

message block identifier (MBI). A field found in the SLC link keypoint that permits chaining of SLC data message blocks.

message channel. In distributed message queuing, a mechanism for moving messages from one queue manager to another. A message channel comprises two message channel agents (a sender at one end and a receiver at the other end) and a communication link. Contrast with *MQI channel*.

message channel agent (MCA). A program that transmits prepared messages from a transmission queue to a communication link, or from a communication link to a destination queue. See also *Message Queue Interface (MQI)*.

message collector. The data collection program that records network message traffic data.

message control record (MCR). A record used to preserve SLC message references until they are acknowledged.

Message Queue Interface (MQI). The programming interface provided by the MQSeries queue managers. This programming interface allows application programs to access message queuing services.

message recovery. A facility used to retain messages on file until the message is completely processed.

message router. A data communication procedure that directs data messages from or to a host network, to or from a specified terminal, station, application program, or another host network.

message switching (MESW) state. The system state in which message switching entries are the only entries processed. All other entries are queued to be processed when the system reaches NORM state.

MESW state. Message switching state.

method. A procedure contained within a collection object that is made available to other collections for the purpose of requesting the services of that collection. Most communication between collections takes place through methods.

MFST. Module file status table.

minor device number. An optional number that can be passed to a device driver subroutine.

mode. A collection of attributes that specifies a file's type and its access permissions. (POSIX.1)

module file status table (MFST). The index of online disk assignments for all direct access storage devices (DASD).

module-to-module duplication. A method of allocating duplicate files whereby the duplicate record in a record type (fixed or pool) is assigned to the same relative position on an alternate disk module.

movable virtual IP address. A virtual Internet Protocol address (VIPA) that can be moved from one processor to another in the same loosely coupled TPF complex.

MPIF. Multi-Processor Interconnect Facility.

MPIF complex. Multiple TPF complexes that are channel connected.

MPIF user. One or more programs associated with one or more functions.

MPLF. Multi-path lock facility.

MQI. Message Queue Interface.

MQI channel. Connects an MQI client to a queue manager on a server system, and transfers only MQI calls and responses in a bi-directional manner.

MQI channel directory. The TPF system implementation of an MQSeries channel definition file. The MQI channel directory contains client connection channel type (CLNTCONN) definitions stored in #MQICD fixed file records.

MQ series. Part of an MQSeries product that allows a queue manager to service MQI client systems.

MQI trace table. The TPF system implementation of an MQI function trace facility.

MQSeries. A family of IBM licensed programs that provides message queuing services.

MQSeries client. Part of an MQSeries product that can be installed on a system without installing the full queue manager. The MQSeries client accepts MQI calls from applications and communicates with a queue manager on a server system.

MQSeries server. A queue manager that provides queuing services to one or more clients. All the MQSeries objects (for example, queues) exist only on the queue manager system; that is, on the MQI server machine. A server can support normal local MQI applications as well.

MSRB. Multiple system request block.

multibyte characters. Multibyte characters are a mixture of SBCS and DBCS characters.

multi-path lock facility (MPLF). A hardware locking facility that can be optionally installed on 3990 Model 3 DASD control units. This facility, or the limited lock facility (LLF), is required in loosely coupled complexes.

Multi-Processor Interconnect Facility (MPIF). A feature of the TPF system that allows an installation to implement the interconnection of CPCs through the use of channel-to-channel support.

multiple assembler (MASM). The program that can assemble many programs in partitioned data sets with minimal use of JCL.

multiple assembly print. An offline program that produces one or more printed listings retrieved from the tape or disk data set produced by the multiple assembly program (MASM).

multiple central processing complexes. Several central processing complexes, which can be either uniprocessors or multiprocessors, that are explicitly identified to the channel subsystem by device addresses. See also *central processing complex*.

multiple database function (MDBF). A facility in the HPO feature that allows concurrent processing of multiple applications, each with dedicated database support.

multiple images. A facility that allows an installation to define as many as 8 images of the TPF system on a single processor. Maintaining multiple and separate TPF images allows an installation to perform loads while the TPF system is processing messages and to have the ability to fall back immediately to a previous program base without reloading the previous program versions.

multiple inheritance. A design characteristic of an object-oriented database in which a given class can inherit directly from more than one immediate superclass.

multiple release. A pool address that has been released more than once without being dispensed again. See also *online multiple release* and *offline multiple release*.

multiple system request block (MSRB). A data definition describing the format of the request block used to ship each MPIF request type to the appropriate destination. The MSRB contains information defining the sending and receiving MPIF user as well as information describing the specific request type.

multiple TPF image. See *image*.

multiprocessing. (1) A mode of operation for parallel processing by 2 or more processors of a multiprocessor. (2) Pertaining to the simultaneous processing of 2 or more computer programs or sequences of instructions by a computer.

multiprocessor. (1) A computer including 2 or more processors that have common access to shared main storage. (2) A system of 2 or more processing units, ALUs, or processors that can communicate without manual intervention.

N

named pipe. Synonym for *FIFO special file* (so named because it is a pipe that is located in the file system by its name so that different processes can find it).

namespace. A unique identifier used for qualifying element and attribute names used in XML. A namespace allows you to retain unique element names by simply providing a two-part naming system through the use of element names associated with a Universal Resource Identifier (URI). The specific location may not actually contain any data about the tags, but simply allows more than one use of a specific tag name. For example, if you are using more than one DTD and both have a <firstname> element, you can distinguish between the two by using namespaces. For more information, go to the W3C Web site (<http://www.w3.org/>).

NAT. Network address table.

native console. A locally attached system console.

NAU. Network addressable unit.

NCB. Node control block.

NCB control record. A fixed-file record that contains information about the node control block (NCB) directory records.

NCB directory record. A fixed-file record that contains the names of dynamic LU resources and the addresses of the 381-byte long-term pool file node control block (NCB) records assigned to those resources.

NCB reconciliation function. A function that returns to the TPF system the node control block (NCB) directory record entries and NCB records that are no longer being used.

NCB reorganization function. A function that changes the number of node control block (NCB) directory records in the TPF system.

NCB slot. A field in an node control block (NCB) directory record entry that contains the address of a 381-byte long-term pool file NCB record for a dynamic LU resource. There are 8 NCB slots for each dynamic LU resource.

NCE. Network connection endpoint.

NCP. Network Control Program.

NEF. Network extension facility.

nested scope. In TPF transaction services, a commit scope within a commit scope. A nested commit scope begins when a higher-level commit scope is already active.

network address table (NAT). The SNA table that contains the network addresses of all local TPF LUs and remote LUs that the TPF system has discovered dynamically.

network addressable unit (NAU). In SNA, a logical unit, physical unit, or system services control point; it is the origin or the destination of information transmitted by the path control network.

network byte order. The byte order required for all binary integers in TCP/IP headers as they traverse a network. In this format, the 4 bytes in a 32-bit value are transmitted in the following order: bits 0–7 first, then bits 8–15, then bits 16–23, and bits 24–31 last. Machines that store binary integers in other formats must convert the header values into the network byte order before transmitting the data. See also *host byte order* and *dotted decimal notation*.

network connection endpoint (NCE). The component in a high-performance routing (HPR) endpoint that processes network layer packets (NLPs) received over rapid transport protocol (RTP) connections. The last label in the automatic network routing field (ANRF) is always an identifier for an NCE in the destination node.

Network Control Program (NCP). An IBM licensed program that provides communications controller support for single-domain, multiple-domain, and interconnected network capability.

network extension facility (NEF). An extension of ACF/NCP/VS (a separate IBM licensed program) that allows ALC devices to attach to a 37x5 running under NCP control.

network layer header (NHDR). The part of the network layer packet (NLP) that contains the automatic network routing (ANR) labels, among other information, and is used by the network to route the NLP from one rapid transport protocol (RTP) endpoint to another.

network layer packet (NLP). A message unit used to carry data between high-performance routing (HPR) nodes. An NLP contains a network layer header (NHDR), transport header (THDR), and optionally data.

new-line character. A control character that causes the print or display position to move to the first position on the next line. This control character is represented by '\n' in the C language.

NHDR. Network layer header.

NLP. Network layer packet.

node. An endpoint of a link or a junction common to two or more links in a network. Nodes can be processors, controllers, or workstations, and they can vary in routing and other functional capabilities. (OSF) In a tree structure, a point at which subordinate items of data originate. (A) In SNA, an endpoint of a link or a junction common to two or more links in a network. Nodes can be distributed to host processors, communication controllers, or terminals. Nodes can vary in routing and other functional capabilities. In ACF/VTAM, a point in a network defined by a symbolic name.

node control block (NCB) record. A record that contains information about the message queues for an LU resource.

nonavailable state. The state a coupling facility (CF) is in when only certain CF commands are processed normally; all other CF commands are suppressed. Contrast with *available state*. See *coupling facility (CF)*.

nonblocking mode. Control is returned to the caller of a socket API function even if its request is not satisfied. For example, for a read or recvfrom function call, the operating system does not suspend the application program if data is not available to satisfy the request. However, a return code of -1 is returned to the application program. See *blocking mode*.

nonduplicated file. A design for a TPF database where none of the records have duplicate copies.

nonfresh load. The part of SNA restart that is activated on most hardware and software IPLs. All SNA tables will be reloaded from their file copies. Contrast with *fresh load*.

nonpersistent message. A message that does not survive a restart of the queue manager. Contrast with *persistent message*.

nonunique collections. Collections that can contain elements that have the same value (such as bags and logs) or the same key (such as dictionaries and key bags).

NORM state. The most active of the 5 system states. All functions are available, communication lines are active, and all types of entries are processed.

notify lock structure. On a coupling facility (CF) this structure maintains lock granted and lock contention information.

NPSI. X.25 NCP Packet Switching Interface.

NSI. Next sequential instruction.

NULL. A pointer guaranteed not to point to a data object.

null character (NULL). The character with the hex value 00 (all bits turned off).

null statement. A C statement that consists solely of a semicolon.

O

object. An instantiation of an object class. A coupling facility (CF) list structure or a connection to a CF list structure.

object aggregation. The practice of grouping unrelated objects (in terms of inheritance) together to represent other objects.

object class. A description that defines the exact format of the attributes (data) as well as the exact methods (functions) to be applied to the data. A category of objects.

object code. Machine-executable instructions, usually generated by a compiler from source code written in a higher level language (such as C language).

object file. In the TPF system, a compiler or assembler output file that is suitable as input to a linkage editor. Object files are included in a load module as designated by the build script for the load module.

object header. A header that contains an object ID, update sequence counter, and object length.

object ID. A field containing the hexadecimal class ID of the object. When you find an object in a record using the ZDFIL command, you can determine what class or type of object it is from this class ID. The class IDs of all the objects used by TPF collection support (TPFCS) are defined by CLASSID macro statements in the ITO2 copy segment.

object length. A field containing the length of an object when it is brought into memory by TPF collection support (TPFCS) to process its associated persistent collection.

object module. In the TPF system, an output file produced by a C compiler supported by the TPF system or by the high-level assembler (HLASM) that is ready to be processed by the TPF offline loader, TPFLDR. To create an object module using a C compiler, use the TARGET(TPF) option. To create an object module with HLASM, the source code must call the BEGIN macro with TPFISOC=NO and the FINIS macro.

OCR. Open Systems Adapter (OSA) configuration record.

octal. A base 8 numbering system.

octal constant. The digit 0 followed by any digits 0 to 7.

online multiple release. A multiple release where pool directory update (PDU) processing was run between two or more releases of a pool address. See also *multiple release* and *offline multiple release*.

offline ACF/SNA table generation (OSTG). A function that creates the tables used online to define and control the ACF/SNA network.

offline functions. See *offline system*.

offline loader. See *general file loader*, *auxiliary loader*, or *E-type loader*.

offline multiple release. A multiple release where pool directory update (PDU) processing was not run between two or more releases of a pool address. See also *multiple release* and *online multiple release*.

offline system. The batch-oriented MVS programs that support the online TPF system.

offload device. A device that performs well-defined interface services to free the host processor to perform other tasks.

OLD. A symbolic name, reserved to TPF, for a general tape denoting the load medium to be used by the E-type loader function.

OMT. Output message transmitter.

online loader. See *general file loader*, *auxiliary loader*, or *E-type loader*.

online system. The TPF production system.

on-time event. The signal generated by a Sysplex Timer (STR) that verifies TOD synchronization in the CPC.

open file. A file that is currently associated with a file descriptor. (POSIX.1)

open file description. An object that contains information such as a file offset, the status of a file, and the access mode of a file. An open file description can be referred to by one or more file descriptors.

Open Systems Adapter (OSA). Integrated hardware that combines the functions of an IBM System/390 input/output (I/O) channel with the functions of a network port to provide direct connectivity between IBM System/390 applications and their clients on the attached networks.

operand. An expression that is acted upon by an operator.

operating system. Software that controls functions such as resource allocation, scheduling, input/output control, and data management.

operation. A specific action such as add, multiply, shift.

operational program zero (OPZERO). The program that creates an entry control block (ECB), defines an entry, and therefore introduces new message information into the system for processing. It is activated when the CPU loop dispatches a work item from the input list.

operator. A symbol (such as +, -, *) that represents an operation (in this case, addition, subtraction, multiplication).

OPR dump. The dump generated when an ECB-controlled program detects an error condition that does not necessarily stop the ECB from continuing its processing.

optimistic concurrency. In TPF collection support (TPFCS), a way of controlling data access. Optimistic concurrency allows a user to read a collection, update it, and replace it without requiring exclusive access to the collection.

OPZERO. Operational program zero.

ordinal number. For a symbolic file address, the relative position of a record in a record type.

OSA. Open Systems Adapter.

OSA configuration record (OCR). A record consisting of two tables, the Open Systems Adapter (OSA) definition table and the OSA Internet Protocol (IP) address table, that contain the definitions and status of OSA-Express connections.

OSA control block. A control block that contains one entry for each active OSA-Express connection.

OSA definition table. A table in the Open Systems Adapter (OSA) configuration record that contains the definitions and status of the OSA-Express connections.

OSA-Express. Integrated hardware that uses queued direct I/O (QDIO) to communicate with high-bandwidth networks such as the Gigabit Ethernet (GbE or GENET) or Fast Ethernet (FENET) networks.

OSA IP address table. A table in the Open Systems Adapter (OSA) configuration record that contains the definitions and status of the Internet Protocol (IP) addresses associated with OSA-Express connections.

OSA shared IP address table (OSIT). A table that contains the status of all Open Systems Adapter (OSA) Internet Protocol (IP) addresses in a loosely coupled TPF complex.

OSIT. Open Systems Adapter (OSA) shared Internet Protocol (IP) address table.

OSTG. Offline ACF/SNA table generation.

out-of-band. The MSG_OOB flag can be set on stream sockets for calls such as `send`, `recv`, and `recvfrom`. The MSG_OOB flag is set for high priority data. Flagged data, which is 1 byte long, may be sent inline with other data or as a single byte by itself. If flagged data is sent inline, it is marked to be read in a specific sequence in relation to the other inline data.

output command handler. A main storage resident program that transmits queued SNA commands.

output message transmitter (OMT). The program that queues and initiates output message transmission to terminals in an ACF/SNA network.

overflow. A condition that occurs when a portion of the result of an operation exceeds the capacity of the intended unit of storage.

P

package. A group of TPF-unique programs necessary to process one particular function or a group of related functions.

package test. The testing procedure, unique to TPF, that checks the validity of interrelated functions in a program package. This is sometimes called Phase III test.

package unit. In the program test vehicle (PTV), a gradient of program testing that allows several application programs to be tested together to verify the performance of specified functions. Also see *transaction unit* and *full scale*.

packet. In TCP/IP, the unit of data passed across the interface between the internet layer and the link layer. A packet includes an IP header and data. A packet can be a complete IP datagram or a fragment of an IP datagram. See also *datagram*.

pad. To fill unused positions in a field with data, usually zeros, ones, or blanks.

page. A 4 KB area of memory; an entry in a page table.

page and segment table area. The segment and page table area (SPTA) is the control table for the ECB virtual memory. It is allocated by CCCTIN. The address of each ECB's SPTA is saved in the Key F section of the ECB.

page frame real address (PFRA). The real address of the hardware frame identified by a given virtual address.

page protection. A facility that controls access to virtual storage by using the page-protection bit in each page table entry.

page zero. Storage locations 0 to 4095.

PAL. Deprecated term for *IBMPAL*.

parallel session. In SNA, 2 or more concurrently active sessions between the same 2 logical units (LUs).

parallel session logical unit. A logical unit (LU) that can have 1 or more concurrently active sessions with a given partner LU.

parameter. The name of a value that a function receives.

parameter declaration. A description of a value that a function receives. A parameter declaration determines the storage class and the data type of the value.

parametric recoup. The attribute of the file recoup program that allows it to be activated and controlled by parameter lists.

parent directory. The directory that is one level above the current directory. When discussing a given directory, the directory that contains a directory entry for the given directory and is represented by the path name dot-dot (..) in the given directory. (POSIX.1) When discussing other types of files, a directory containing a directory entry for the file under discussion. (POSIX.1)

parent process. A process that creates a child process. See also *child process* and *process*.

PARS. Programmed airlines reservation system.

PARS list. A partitioned data set member that contains the names and versions of the E-type programs to be loaded to the loader general file.

parser. A program that allows the use and interpretation of data. The XML4C parser is used for data written in the XML language. In XML4C, there are two specifications used to interact with the parser: Document Object Model (DOM) and Simple API for XML (SAX). See also *Document Object Model* and *Simple API for XML*.

part objects. See *collection part objects*.

partial load. Synonym for *short load*.

partially duplicated files. A design for a TPF database where some records have duplicate copies while other records do not.

partitioned emulation program (PEP). An extension of the network control program that allows the emulator program (EP) and the Network Control Program (NCP) to cohabit the 37x5 processor.

PAT. Program allocation table.

path. The logical structure used to communicate between 2 processors. A communication unit path provides two-way communication between 2 processors. Each path consists of 2 units, each supporting one-way communication for reading or writing.

path information unit (PIU). The basic unit of information sent between the TPF system and System Network Architecture (SNA) devices. A path information unit (PIU) is SNA terminology for a message.

path length. The number of ESA machine instructions required to process an input message from the time it is received until the response is sent to the communication facilities.

path name. A file name specifying all directories leading to the file. See also *relative path name*. A file name specifying all directories leading to a file plus the file name itself. A string that is used to identify a file. A path name consists of, at most, PATH_MAX bytes, including the terminating null character. It has an optional beginning slash (/) followed by zero or more file names separated by slashes. If the path name refers to a directory, it may also have a trailing slash.

path switch. An action taken by one of the high-performance routing (HPR) endpoints to request a new path for a rapid transport protocol (RTP) connection when the HPR endpoint detects a failure in the network. This action is nondisruptive; that is, no LU-LU sessions or data are lost.

path switch timer. A timer used by the TPF system to detect path switch failures in a high-performance routing (HPR) network.

pattern. (1) A regular expression or series of regular expressions that define the search pattern. (2) A sequence of characters used either with regular expression notation or for path name expansion as a means of selecting various character strings or path names, respectively. The syntaxes of the two patterns are similar, but not identical; the standard always indicates the type of pattern being referred to in the immediate context of the use of the term. (POSIX.2) (3) A sequence of characters used by commands that search for strings. Some characters have special meanings in patterns; for example, \$ refers to the end of a line and abc\$ refers to the sequence abc appearing at the end of a line. Some patterns can be matched by many different strings.

PBI. Program base identification.

PDU. (1) In Simple Network Management Protocol (SNMP) agent support, a protocol data unit. (2) In TPF file pool support, pool directory update processing.

PEP. Partitioned emulation program.

PER. Program event recording.

permanent storage. Storage that is the final repository for the data that TPF systems share and might be on DASD. TPF systems can read the data from permanent storage to local storage buffers for their use and then maintain the data in the local cache buffers and use the directory-only caching method to track the validity of the data.

permission (file permission). The right to access a file. See also *access permissions*.

persistence. A process that guarantees collection access beyond the life of the creating entry control block (ECB) and beyond a system re-IPL. Access is guaranteed until a collection is specifically deleted.

persistent collection. An abstract representation of data having common attributes and functions that maintain their state after the entry control block (ECB) that creates them exits.

persistent identifier (PID). An identification number that is assigned to all collections in TPF collection support (TPFCS). The PID is architected as a 32-byte number consisting of a format indicator and other information used to locate the collection.

persistent long-term collection. A collection that lives beyond the life of the creating ECB, resides on DASD in long-term pool records, and can survive a re-IPL. The collection will be deleted only with an explicit delete call.

persistent message. A message that survives a restart of the queue manager. Contrast with *nonpersistent message*.

persistent short-term collection. A collection that lives beyond the life of the creating ECB, resides on DASD in short-term pool records, and can survive a re-IPL. The collection will be deleted when the short-term pools are recycled.

persistent structure. A coupling facility (CF) structure that remains allocated when there are no active connections.

pessimistic concurrency. In TPF collection support (TPFCS), a way of controlling data access. Pessimistic concurrency uses an exclusive lock to allow a user to read a collection, update it, and replace it.

PFRA. Page frame real address.

Phase III test. See *package test*.

physical address. The absolute address after configuration (the final address). See also *absolute address*, *logical address*, *real address*, and *virtual address*.

physical storage block. Types of working storage blocks used as I/O blocks, system work blocks, entry control blocks, frames, and common frames.

PID. Persistent identifier.

pilot tape. A general tape that can be processed by the online data loader to load new fixed file data into the online system.

pinned data. Data held until it is destaged to DASD or explicitly discarded by a host command because of a permanent error condition in a 3990 caching control unit.

PIO. Preemptive I/O. A TPF control program routine that manages I/O operations to a single device while suspending normal I/O (CIO) services for all other devices. This is used primarily by the system error routine.

pipe. (1) To direct data so that the output from one process becomes the input to another process. (2) A one-way communication path between a sending process and a receiving process. See also *pipeline*.

pipeline. (1) A chain of two or more processes connected by pipes. Each process in the chain acts as a filter, reading data from the standard input (*stdin*), performing some transformation, and writing the results to the standard output (*stdout*). (2) A direct, one-way connection between two or more processes. (3) To perform processes in a series.

PIU. Path information unit.

PKST. Processor keypoint status table.

PNA. Program nesting area.

pointer. A variable that holds the address of a data object or function.

polling. In a communication network, the act of checking for input from a device.

pool conversion. In pool file support, to convert the pool data structures on file in DASD from pool expansion (PXP) support format to 32-way loosely coupled pool support format. For pool conversion to take place, all processors in the complex must be migrated to 32-way loosely coupled pool support. When pool conversion is completed, the pool data structures in main processor storage (*core*) on each processor and on file in DASD are in 32-way loosely coupled pool support format. Contrast with *pool migration* and *pool conversion fallback*.

pool conversion fallback. In pool file support, to return the pool data structures on file in DASD from 32-way loosely coupled pool support format to pool expansion (PXP) format. When pool conversion fallback is completed, the pool data structure in main processor storage (*core*) on each processor is 32-way loosely coupled pool support format, while the pool data structure on file in DASD has been returned to PXP support format. Processors in unmigrated state can now join the complex. See also *pool conversion*, *pool migration*, and *unmigrated state*.

pool directory. An index of all pool records maintained by the control program file directory system.

pool directory generation. A storage management process that creates pool directories.

pool directory record. The array of status bits that indicates whether a pool record is available or unavailable.

pool fallback. The technique for selecting an alternate compatible pool section for address dispensing if a depleted pool section is selected.

pool file record. A DASD record used for temporary data storage; it is given to programs when requested and returned when no longer needed by the programs.

pool file storage. See *pool file record*.

pool migration. To IPL a processor on an image that contains 32-way loosely coupled pool support while the data structure on file in DASD remains pool expansion (PXP) support format. The 32-way loosely coupled pool support data structure format is used in main processor storage (*core*). Contrast with *pool conversion*.

pool record. See *pool file record*.

pool record type. See *pool type*.

pool section. Storage space allocated for a particular pool type. The pool type may be allocated across several device types in which case the pool type will consist of several pool sections.

pool segment. Two noncontiguous areas in a pool section.

pool type. One of 10 groups of pool records: small long-term (SLT), small short-term (SST), small long-term duplicate (SDP), large long-term (LLT), large short-term (LST), large long-term duplicate (LDP), 4K long-term (4LT), 4K short-term (4ST), 4K long-term duplicate (4DP), and 4K long-term duplicate FARF6 (4D6).

POP. Post Office Protocol.

portability. The ability to move a subsystem to a different local or remote CPU site without impacting the operation of the subsystem being moved or any subsystem remaining at the original site.

Portable Operating System Interface for Computer Environments. Synonym for *POSIX*.

POSIX. Portable Operating System Interface for Computer Environments. An interface standard governed by the IEEE and based on UNIX. POSIX is not a product. Rather, it is an evolving family of standards describing a wide spectrum of operating system components ranging from C language and shell interfaces to system administration.

post-interrupt branch address. The standard field in system control blocks used to point to the system routines invoked when a work item reaches the top of a queue.

post-interrupt processing. (1) The housekeeping routine to set up further processing for an application after the control program has completed a service request. (2) When an IOB reaches the top of the ready list, post-interrupt processing removes the IOB address from the ready list and links the application to the input data by moving the core block address to the ECB, moves the output data core block address to the ECB, and returns the core block to the system pool. If all I/O is completed, control returns to the linked application.

post-interrupt routine. The housekeeping routine that performs further processing for an application after the control program has completed a service request.

Post Office Protocol (POP). In the Internet suite of protocols, an application protocol that allows a client to retrieve Internet mail from a server. POP transfers mail to the client, and optionally, removes the original copy from the server. See also *Internet Message Access Protocol (IMAP)* and *Simple Mail Transfer Protocol (SMTP)*.

pragma. See #pragma.

PRC. Prime CRAS.

precedence. The priority system used to determine the grouping of different types of operators with their operands.

precision. A measure of the ability to distinguish between nearly equal values. See single precision and double precision.

preemptive I/O. Synonym for *PIO*, which is the commonly used term. A TPF control program routine that manages I/O operations to a single device while suspending normal I/O (CIO) services for all other devices. This is used primarily by the system error routines. See also *common I/O (CIO)*.

prefix register. Positions 1–19 of the prefix register contain the value used to transfer from a real address to an absolute address when prefixing is applied.

prelinker. A program that prepares code with writable static data, long names, and dynamic link libraries (DLLs) for the linkage editor.

preprocessor. A program that examines the source program for preprocessor statements that are then executed, resulting in the alteration of the source program.

preprocessor statement. A statement that begins with the symbol # and is interpreted by the preprocessor.

primary directory. See *quick enter directory*.

primary expression. An identifier, an expression enclosed within parentheses, a function call, an array element specification, or a structure or union member specification.

primary image. The image that is used during a hard IPL.

primary key path. A structure that exists from the moment a collection is created and dictates the location of elements within that collection. See also *alternate key path*.

primary record. When DASD records are duplicated, the 2 copies of a data record are called the primary record and the duplicate record. When used in the context of TPF collection support (TPFCS), this term has a different meaning. See *TPFCS primary record*.

prime CRAS (PRC). The main system console designated to direct system processing.

prime module. The online module used for IPLs and system restarts. In a fully duplicated database, the disk pack containing the primary records. Contrast with *duplicate module*. See also *primary record* and *duplicate record*.

prime restart area. The part of the restart area used for online system restarts.

private code. An unnamed executable control section.

process. A function being performed or waiting to be performed. An executing function or one waiting to execute. A sequence of actions required to produce a desired result. (OSF) An entity receiving a portion of the processor's time for executing a program. (OSF) A unique, finite course of events defined by its purpose or by its effect, achieved under given conditions. Any operation or combination of operations on data. A running program, including the memory occupied, the open files, the environment, and other attributes specific to a running program. An address space and the single thread of control that executes within that address space and its required system resources. (POSIX.2)

process identifier (ID). A unique, positive number that represents a process. In the TPF system, the process ID is a unique identifier for a process.

process selection vector (PSV). An optional exit program that allows the user to extend TPF communication support for additional terminal types without modifying the user's application programs.

processing unit. A functional unit that consists of 1 or more processors and their internal storage.

processor. In a computer, a functional unit that interprets and processes instructions.

processor complex. A configuration that consists of all the machines required for operation.

processor keypoint status table (PKST). The communication control unit keypoint status record used for non-SNA communication.

processor lock. Used to permit system control programs, processing in 2 or more I-stream engines in a CPC, to modify shared system data.

processor resource ownership table (PROT). A table maintaining the ownership status of tape drives and system utilities in a loosely coupled complex.

processor shared cache. In logical record cache support, a cache that contains cache entries that are kept synchronized between all processors in a loosely coupled complex that are using the cache.

processor shared keypoint (PSK). The keypoint records that identify resources shared among processors. All processors in a loosely coupled complex share the same copy of these keypoint records.

processor shared resource. A resource that is shared among processors in a loosely coupled environment.

processor unique cache. In logical record cache support, a cache that contains cache entries that are used by only one processor in a loosely coupled complex.

processor unique keypoint (PUK). The keypoint records that identify resources dedicated to each processor. Each processor in a loosely coupled complex has its own unique copy of these keypoint records.

processor unique resource. A resource that cannot be shared by or switched among loosely coupled processors.

program. One or more files containing a set of instructions conforming to a particular programming language syntax.

program allocation table (PAT). A table built by the allocator program that provides an enter-by-name capability and program allocation attributes. The program allocation table allows dynamic determination of the address of the program being entered.

program allocator list (PAL). Deprecated term for *IBM program allocator list (IBMPAL)*.

program base identification (PBI). The ECB field that identifies the program base of a particular subsystem.

program collector. The data collection program that records the macro types, the programs called, and the residency of the called programs. The data is written to the data collection tape and processed by the offline data reduction programs.

program event recording (PER). A facility that provides assistance in debugging programs in a native TPF system environment by monitoring the following events: storage alteration, instruction fetching, and successful branching.

program ID field. A 4-byte field in the header of every data record that contains the name of the last program updating that record.

program nesting area (PNA). The fields used to hold chains of ENTER/BACK requests controlled by an ECB. Base address, return address (next sequential instruction), and program base ID are saved for each program issuing an ENTRC.

program test vehicle (PTV). An online utility that permits the user to test applications in progressive levels of system involvement.

programmed airlines reservation system (PARS). The application programs developed specifically for airline reservations.

prolog. The code that is processed each time a C language function is activated. Its purpose is to allocate a block of main storage to contain local variables for use during function processing.

property. An attribute with values that a user can dynamically associate with a persistent collection.

property service. A service for created persistent collections that lets a user dynamically associate named attributes (properties) with an already existing persistent collection. Once the properties are defined, their values and access modes can be obtained and changed.

PROT. Processor resource ownership table.

protocol. In open systems interconnection architecture, a set of semantic and syntactic rules that determine the behavior of entities on the same layer in performing communication functions.

pseudo directory. An accurate account of long-term pool records at some discrete instant of time.

pseudo module. For pool file, a DASD module on which pool addresses are allocated, but the module does not currently exist. This allows for adding devices to the database without the need to regenerate pool directories.

PSV. Process selection vector.

PSW. Program status word.

PTV. Program test vehicle.

PU type 2.1. PU type 2.1 attachment to an SNA network involves TPF appearing to a local NCP as a type 2.1 node with independent LUs. TPF is the primary side of the link and performs an exchange identification format 3 (XID3) to establish connection. TPF application LUs appear to reside in the local NCP, which requires a unique name for each TPF application per channel-attached NCP.

PU type 5. PU type 5 attachment to an SNA network involves TPF appearing to a local NCP as a type 5 subarea node with an SSCP and a CDRM component. TPF is a data host (that is, does not send ACTPU to the NCP) and performs exchange identification format 2 (XID2) to establish connection. TPF application LUs appear as CDRMs to a VTAM CMC.

PUK. Processor unique keypoint.

Q

QCE. Queue control element.

QDIO. Queued direct input/output (I/O).

queue. (1) An MQSeries object. Message queuing applications can put messages on, and get messages from, a queue. A queue is owned and maintained by a queue manager. Local queues can contain a list of messages waiting to be processed. Queues of other types cannot contain messages—they point to other queues or can be used as models for dynamic queues. (2) A first-in-first-out (FIFO), or ordered, collection of mail items.

queue control element (QCE). A user-specified control block that is used by the queue manager in SNA communications to keep queue message management information.

queue manager. (1) Provides a basic set of tools for performing SNA message queuing functions. (2) A system program that provides queuing services to applications. It provides an application programming interface so that programs can access messages on the queues that the queue manager owns.

queued direct input/output (QDIO). A link layer in the TPF system that is used to communicate with the Open Systems Adapter (OSA)-Express card.

quick enter directory. A table of addresses used by the quick enter linkage routine to branch to C library functions. Synonymous with *primary directory*.

quick enter linkage. A TPF method providing fast linkage to C library functions by using a function number provided by the compiler to index into the quick enter directory and branch to the function.

quota. In TPF Internet mail server support, the maximum amount of storage allowed for one or more mailboxes. A quota is applied to a quota root. See also *quota root*.

quota root. In TPF Internet mail server support, the point in a mailbox naming hierarchy where a quota, or storage limit, is set. A quota root is created when you enter the ZMAIL SETQUOTA command. See also *quota*.

R

rapid transport protocol (RTP) connection. A connection between two high-performance routing (HPR) nodes that may traverse one or more intermediate HPR nodes and links. The connection endpoints provide error recovery and adaptive rate-based flow control for the connection traffic, and nondisruptive switching of the underlying physical path if there is a route outage. The intermediate HPR nodes minimize their routing overhead using automatic network routing (ANR) protocols, which rely on header information to permit effective source routing and prioritized transmission along the RTP connection.

rapid transport protocol control block (RTPCB) table. A core-resident table that contains an entry for each rapid transport protocol (RTP) connection in the TPF system. Each entry contains all the relevant information about that RTP connection, such as the transport connection identifiers (TCIDs) and the forward automatic network routing (FANR) field.

ratio dispensing. A technique to dispense addresses from the various pool sections (for a particular pool record type) based on a ratio factor.

ratio factor. Specifies the number of addresses to dispense from a pool section before selecting another pool section from which to dispense addresses.

RBA. Relative byte address.

RC. Record cache.

RCAT. Routing control application table.

RCB. Routing control block.

RCC. Record code check.

RCPL. Routing control parameter list.

RCS. Record cache subsystem.

RCS I/O queue thresholding. The process of monitoring the overall queue depth of a 3990 record cache controller while it is processing in a degraded state. The degraded state is defined as any functional capability being inhibited at either the subsystem or attached device level.

RCS I/O queue threshold value. A number that represents the maximum number of queued I/O requests tolerated by a DASD device attached to a 3990 caching control unit operating in a degraded state.

RCS subsystem ID. A number identifying the physical components of a logical DASD subsystem in a 3990 storage control configuration.

RDLR. Root dynamic load record.

RDW. Record descriptor word.

ReadWrite cursor. A cursor that puts an exclusive lock on a collection for read and write operations.

ready list. A high-priority CPU loop list used to return to an entry already in progress when system activity is completed. It is interrogated after the cross list processing is completed.

real address. An address before prefixing, such as found in the instruction address portion of the channel status word (CSW). If translation is off, the logical address is the real address. See also *absolute address*, *logical address*, *physical address*, and *virtual address*.

real group ID. The attribute of a process that, at the time of process creation, identifies the group of the user who created the process. This value is subject to change during the process lifetime. (POSIX.1)

real-time tapes. Write-only tapes that may be written to by any entry at any time. They are used to collect TPF system data that may be analyzed by offline maintenance and reporting procedures. By convention, the first 2 characters of the 3-character tape name are RT.

real-time trace (RTT). (1) A system utility that counts or traces the use of specific macros and related system activity; activated by commands issued from CRAS terminals. (2) The facility that monitors and records system activity when activated through a command. RTT can provide a historical record of input messages, I/O and macro activity, and output messages.

real user ID. The attribute of a process that, at the time of process creation, identifies the user who created the process. This value is subject to change during the process lifetime. (POSIX.1)

receive-only (RO) CRAS. The device that records all TPF system output to the system console.

receiver channel. In message queuing, a channel that responds to a sender channel, takes messages from a communication link, and puts them on a local queue.

reclaim function. The E-type loader function that rebuilds the E-type loader database to recover any E-type loader fixed file records that have been lost.

reconstruction. A process that provides a way to have a damaged persistent collection at least partially restored automatically. The process of reconstruction involves rebuilding a control record of the collection and the chains that the collection anchors.

record cache (RC). The name given to the TPF system support for the 3880 caching control unit with the record cache RPQ.

record cache subsystem (RCS). Name given to the TPF system support for the 3990 caching control unit with the record cache RPQ.

record code. A field in record headers that can be used to ensure the correct record was retrieved for processing.

record code check (RCC). A means of accomplishing an additional data integrity check on subelements of a record by using the 1-record code field in the record header.

record descriptor word (RDW). The first 4 bytes of a variable block length (format-VB) logical record.

record duplication. In the TPF system, data records (on DASD) can be duplicated, which means that there are 2 copies of a data record on the database. The copies are referred to as the primary record and the backup record (sometimes called the *duplicate record* or *dupe*).

record header. The standard header in data records that contains the record ID, record code, control data, program name, and chaining address fields.

record hold. The protocol and facility that secures data records with an exclusive hold. It must be used by all programs when updating file records to ensure the proper sequencing of updates and data integrity.

record ID. Two bytes that identify the function or type of data a given record contains. By convention, it appears in the first 2 bytes of the record header. Also called a RIAT ID.

record ID attribute table (RIAT). A table used to define the characteristics of fixed and pool file system records in terms of size, longevity, duplication status, device type, exception recording or logging status, user exits, and VFA status. RIAT also defines restore status, RCS caching status, and locking status.

record sharing table (RST). A system table that links the VFA hash tables to the VFA buffers.

record type. A group of logically related, predefined records residing in the fixed file area.

record type indicator. A hexadecimal value identifying a record type in the fixed file area. Each record type indicator is assigned a symbolic name, the first character of which is #, used by programs when accessing records of that type.

record type name. The symbolic name assigned to a record type.

record type uniqueness group. A group of records that have the same record type name and user uniqueness.

recoup. The utility that determines if pool records are valid or not valid (lost), recovers records that are not valid, and produces a report that indicates the E-type programs that may have lost the pool references.

recoup index. A system collection that describes the location of persistent identifiers (PIDs) and file addresses embedded in all collections associated with that recoup index.

recovery log. A log that holds the data that is necessary to recover resources following a system failure without compromising the integrity of the database. The recovery log is written to DASD.

redirect. Diverting data from a process to a file or device to which it would not normally go.

register. A storage area commonly associated with fast-access storage, capable of storing a specified amount of data such as a bit or an address.

regular expression. (1) A mechanism to select specific strings from a set of character strings. (POSIX.2) (2) A set of characters, metacharacters, and operators that define a string or group of strings in a search pattern. (OSF) (3) A string containing wildcard characters and operations that define a set of one or more possible strings. (OSF) (4) A more technical term for *pattern*. (5) See also *wildcard character*.

reinclude function. An E-type loader function that adds 1 or more programs to a specified loadset. Only programs that were previously excluded from the loadset can be reincluded in the loadset.

relative byte address (RBA). In TPF collection support (TPFCS), the 1-based (the first element in the collection has an index of 1) displacement of a byte from the beginning of a binary large object (BLOB) collection.

relative path name. The name of a directory or file expressed as a sequence of directories followed by a file name, beginning from the current directory. Relative path names do not begin with a slash (/) but are relative to the current directory. A path name that does not begin with a slash. The predecessor of the first file name in the path name is taken to be the current working directory of the process. (POSIX.1) See also *absolute path name*, *path name*.

relative record number (RRN). A number that specifies the location of a record in relation to the beginning of a database file member or subfile. In TPF collection support (TPFCS), it is the number returned by the `T02_getNumberOfRecords` C function. A number that describes the order in which a record occurs in the abstract flat file representation of the extended-resident collection data and associated control information.

remote procedure call (RPC). A process that allows applications on one workstation to call functions that reside on and are run by another workstation.

remote unit of work. A method of accessing distributed relational data in which users or applications can, in a single unit of work, read and update 1 system using multiple structured query language (SQL) statements.

reply-to queue. The name of a queue to which the program that issued an MQPUT call wants a reply message or report message sent.

REQTAIL. A private protocol RU sent by a TPF control point LU (CLU) to the VTAM logon manager to request a different route for starting a session.

Request for Comments (RFC). In Internet communications, the document series that describes a part of the Internet suite of protocols and related experiments. All Internet standards are documented as RFCs.

residency. A characteristic of TPF collection support (TPFCS) that determines what the layout of the data is in the internal objects that comprise a collection.

resource identifier (RID). The ordinal number representing an addressable unit in the ACF/SNA network.

resource manager (RM). The SNA component that provides the services required to establish, manage, and deactivate conversations on an already established LU-LU session. In TPF transaction services, there are two resource managers that work with the transaction manager to identify and harden resources used by the application in a commit scope. TPF DASD and pool support are the resource managers supplied by IBM for TPF transaction services.

resource name hash control table (RNHCT). A record that contains pointers to the other resource name hash (RNH) tables, the resource vector table (RVT) available list, and the RVT termination list.

resource name hash entry table (RNHET). A table that contains pointers to the resource vector table (RVT). It also contains pointers that maintain the RNHET synonym chain, RVT available list, and RVT termination list.

resource name hash prime table (RNHPT). A table that contains entries referred to as RNHPT hash buckets. Each RNHPT hash bucket points to the first entry on its RNHET synonym chain and contains a count of the number of RNHET entries on that RNHET synonym chain.

resource name hash sort table (RNHST). A table that is used to sort the RNHET entries that are placed on the resource vector table (RVT) termination list.

resource name hash (RNH) tables. Tables used to access the resource vector table (RVT). These tables include the resource name hash control table (RNHCT), resource name hash prime table (RNHPT), resource name hash entry table (RNHET), and resource name hash sort table (RNHST).

resource vector table (RVT). A directory of all network addressable units in the ACF/SNA portion of the system network.

restart. The facility started to restore the system to operational state after an outage. Restart involves IPL, initialization, and the restart scheduler.

restart scheduler. A program containing a sequence of ENTERs to ECB-controlled system programs that build system tables for resource management and provide services required for system processing.

restore. A program used to regain, update, and restore disk files from the previously captured records on tape.

RES0. The common name for an application called airlines reservations; often used as an application name in the RCAT.

retentive (RET) attribute. A user-specified caching attribute that allows a data record to be written to cache and to the DASD surface. Access to data with this attribute has performance benefits for read operations.

RFC. Request for Comments.

RIAT. Record ID attribute table.

RID. Resource identifier.

RM. Resource manager.

RNHCT. Resource name hash control table.

RNHET. Resource name hash entry table.

RNHET synonym chain. A linked list of the RNHET entries that are assigned to a particular RNHPT hash bucket. One RNHET synonym chain exists for each RNHPT hash bucket.

RNHPT. Resource name hash prime table.

RNHPT hash bucket. An entry in the RNHPT table.

RNHST. Resource name hash sort table.

RNH tables. Resource name hash tables.

RO CRAS. Receive-only CRAS.

rollback. To return to a previous state. In TPF transaction services, the file changes that were made inside a commit scope when a transaction fails are not applied. The database remains consistent with its state before the commit scope was opened.

root directory. The first directory in the file system hierarchy. A slash (/) at the beginning of a path name represents the root directory.

root dynamic load record (RDLR). The record that is used to keep status of the dynamic load of resources in NORM state.

root scope. In TPF transaction services, the first, or highest-level, commit scope activated by an application.

router. In TCP/IP support, a device that connects networks at the network layer level and routes packets between them. Routers have the ability to select the best transmission paths and optimum packet sizes.

Route Selection control vector (RSCV). A control vector that describes a route in an Advanced Peer-to-Peer Networking (APPN) network. The RSCV consists of an ordered sequence of control vectors that identify the transmission groups (TGs) and nodes that make up the path from an origin node to a destination node.

routing control application table (RCAT). The system table that contains the identification information required by the control program to start a particular application for message processing.

routing control block (RCB). A fixed file terminal control block, associated with a particular terminal, used to pass system and application information.

routing control parameter list (RCPL). A data area, associated with each input or output message, that identifies the origin, destination, and characteristics of the message.

RPC. Remote procedure call.

RRN. Relative record number.

RSCV. Route Selection control vector.

RST. Record sharing table.

RTA. A symbolic tape name, reserved to TPF systems, denoting the primary real-time tape.

RTC. A symbolic tape name, reserved to TPF systems, denoting the tape produced by the data collection programs and analyzed by the data reduction programs.

RTL. A symbolic tape name, reserved to TPF systems, denoting the real-time tape used for logging system data.

RTP connection. Rapid transport protocol connection.

RTPCB table. Rapid transport protocol control block table.

RTT. Real-time trace.

RU. An SNA request or response unit.

run. To cause a program, utility, or other machine function to be performed.

RVT. Resource vector table.

RVT available list. A linked list that contains the RNHET entries for all of the available (or spare) resource vector table (RVT) entries in the LU section of the RVT.

RVT termination list. A linked list that contains the RNHET entries for all of the dynamic LU resources that no longer have sessions established.

S

SA. Session address.

SAA. Systems Application Architecture.

SABRETALK. A high-level program language used to code ECB-controlled programs. Additional main storage must be attached to the ECB when SABRETALK segments are processed.

SAL. System allocator table.

SALO. System allocator.

SAT. Subarea address table.

SAX. Simple API for XML.

SBCS. Single-byte character set.

SCB. Session control block.

SCK. System communication keypoint records.

scalar. An arithmetic object, or a pointer to an object of any type.

schema. (1) The set of statements, expressed in data definition language, that completely describe the structure of a database. (2) Statements that define the tags used in an XML document. A schema defines the structure with elements and attributes, and it establishes constraints for how each element and attribute may be used within the particular class of documents. A schema can be either a DTD or an XML Schema.

1. The DTD is one method of defining the acceptable tags for an XML document. It has a strict syntax and can be included internally in the XML document or externally through a reference in the XML document. A DTD is a type of schema, but is not written in XML language. DTDs are supported on TPF through the XML4C parser.
2. The XML Schema is actually written using the XML language and was developed by the World Wide Web Consortium (W3C). It is more inclusive and more detailed than a DTD for the following reasons:
 - It can be parsed as an XML document.
 - It can specify what type of data can be in a particular element (for example, integer versus character data).
 - It allows you to specify element that must be used the same throughout the XML document as well as elements that have special meanings in different contexts.

For more information about the XML Schema, go to <http://www.w3.org/>.

scope. The level on which a function or variable is “visible” or accessible. File scope means that the function or variable is visible only within the source file in which it is defined. Block scope means that the function or variable is only visible within the block (defined by curly braces { }).

scratch pad area (SPA). The terminal control block associated with each SNA network addressable unit defined in the system. Applications use SPA records to pass information among the entries of a transaction.

SCT. SWB control table.

SDA. Symbolic device address.

SDAT. Symbolic device address table.

SDMF. Standard data/message file.

secondary directory. A table of addresses used to branch to secondary library routines.

secondary library routine. A C library function coded in assembler language that resides in its own control program CSECT and does not follow the conventions required for the TPF system E-type programs.

secondary linkage. A TPF method that provides linkage to C library functions written in assembler language and installed as control program CSECTs.

segment. Real-time code or offline code that is not part of the control program (CP).

segment and page table area (SPTA). The control table for the ECB virtual memory (EVM). It is allocated by CCCTIN. The address of each ECB's SPTA is saved in the Key F section of the ECB. Synonym for *page and segment table area*.

selected equate macro. An assembler macro, such as REGEQU, that provides equate support.

selective activation. The E-type loader process of restricting the use of the programs in a loadset to specific ECBs.

selective file dump (SFD). A debugging tool that writes the contents of specified file records to the real-time tape.

selective file dump and trace (SFDT). Two debugging tools (selective file dump [SFD]) and (selective file trace [SFT]) designed to help users locate file-related errors during online operations or while testing under the control of the program test vehicle (PTV). Both functions are activated by commands.

selective file trace (SFT). A debugging tool that monitors the updating of selected file addresses during a specified file trace period.

selectively duplicated file. See *partially duplicated file*.

selective memory dump table (SMDT). A table that maps keywords (representing different areas of main storage) to addresses. It is used by the dump override table (DOT) for system error processing.

self-discovery. In SNA, the process that restarts adjacent link stations (ALs), NCPs, and CTCs that were previously active.

SENDB postprocessor. A program used for multisegment message transmission over a binary synchronous link.

sender channel. In message queuing, a channel that initiates transfers, removes messages from a transmission queue, and moves them over a communication link to a receiver or requester channel.

SENDL postprocessor. See *long message transmitter (LMT)*.

sequential number wrap value. In MQSeries, a method of ensuring that both ends of a communication link reset their current message sequence numbers at the same time. Transmitting messages with a sequence number ensures that the receiving channel can reestablish the message sequence when storing the messages.

sequence collection. A type of collection with ordered, nonunique elements that are not accessible by a key. Elements are ordered by arrival sequence, but elements can be inserted or deleted before existing elements.

serialize. To change from parallel-by-byte to serial-by-bit.

server. In TCP/IP, a program or process that provides services for a program at another site. See also *client*.

SESINIT. A private SNA protocol RU sent by the VTAM logon manager to request session initiation across a particular link.

session. A logical connection between two application programs that allows them to communicate.

session address (SA). In high-performance routing (HPR) support, a unique identifier that flows in the FID5 transmission header (TH) of a network layer packet (NLP). The SA is used to identify a particular LU-LU session over a rapid transport protocol (RTP) connection.

session control block (SCB). An area in main storage used to control sessions for TPF/APPC support.

session index table (SIT). A table that maps the LU-LU session identifier (SID) to the SLU resource identifier (RID) when the TPF system communicates as a PU 2.1.

session manager (SM). The SNA component responsible for insuring that the underlying LU-LU session needed for a conversation is available.

set collection. A type of collection with unordered, unique elements that are not accessible by a key.

SFD. Selective file dump.

SFDT. Selective file dump and trace.

SFT. Selective file trace.

shadow. A TPF collection support (TPFCS) option that allows you to specify that a collection will maintain an extra copy of that collection. When using the shadow option with normal TPF duplicate files of the collection, there will actually be four copies of the data.

shared library indicator directory (SLID). A table that consists of 1-byte flags for each of the library load modules.

shared library names table (SLNT). A table that contains the 4-character names of each of the library load modules.

shared memory. An area of memory that allows two or more processes to share a given region of memory.

shared record. A fixed file record that is shared by all subsystem users, processors, or I-streams. Contrast with *unique record*.

shared resources. In a loosely coupled complex, resources that can be used concurrently by I-streams, processors, subsystems, or subsystem users. Contrast with *unique resources*.

short load. A software load where only a subset of a full load is loaded. Synonymous with *partial load*.

short request timer. A timer used by the TPF system to detect failures in a high-performance routing (HPR) network.

short-term pool records. File pool records that are usually maintained only for the time required to complete a transaction.

shutdown level. A predefined value that is used to control access to a specified system resource. When the availability of the resource reaches the shutdown level, operation of the system can be inhibited until availability increases.

SIB. SNA I/O buffers.

SICF. System interprocessor communication facility. See *interprocessor communications*.

side information table. A table used by TPF/APPC mapped conversations that contains the currently defined set of symbolic destination names and the corresponding transaction program names, LU names, and node names.

signal. A simple method of communication between two processes. One process can inform the other process when an event occurs using signals.

signaling. A feature that allows the operating system to notify a program when an expected message arrives on a queue.

Simple API for XML (SAX). A specification that allows an application to interact with XML data as a series of events.

Simple Mail Transfer Protocol (SMTP). In the Internet suite of protocols, an application protocol for sending mail to users in the Internet environment. SMTP specifies the mail exchange sequences and message format. It assumes that the Transmission Control Protocol (TCP) is the underlying protocol. See also *Internet Message Access Protocol (IMAP)* and *Post Office Protocol (POP)*.

single-byte character set (SBCS). A set of characters in which each character is represented by one byte.

single inheritance. A design characteristic of an object-oriented database in which each class inherits directly from only one immediate superclass.

SIP. System initialization program.

SIP skeleton and internal macro. A macro or skeleton (such as SPPBLD or SPCOMP) that is used by the system initialization program (SIP).

SIP stage I. The first part of system initialization during which macros defined by the user are assembled, analyzed, and expanded to produce an MVS job stream used by SIP stage II.

SIP stage II. The second phase of system initialization during which the MVS job stream generated by SIP stage I is processed. Stage II generates the modules and libraries that comprise the user-specified system.

SIPC. System interprocessor communications. See *interprocessor communications*.

SIT. Session index table.

slash. The literal character /. This character is also known as a solidus in ISO 8859-1 (B34) (POSIX.1) The / character. UNIX and POSIX-conforming systems use the slash (/) to separate the components of a path name. A slash (/) at the beginning of a path name represents the root directory.

SLC. Synchronous link control.

SLID. Shared library indicator directory.

SLNT. Shared library names table.

SLST. Symbolic line status table.

slow queue. A queue in which the rate of service is slower than the rate that messages are added to the queue. See also *sweep*.

SM. Session manager.

SMDT. Selective memory dump table.

SMP. System message processor.

SMTP. Simple Mail Transfer Protocol.

SNA. Systems Network Architecture.

SNA channel-to-channel (CTC). A facility that provides a high-speed link to local and remote VTAM and TPF systems.

SNA command processing. The processing method where SNA commands are used to communicate among SNA network addressable units in order to control network resources.

SNA CTC. SNA channel-to-channel.

SNA CTC priming. A process that initiates exchange identification (XID) processing over SNA CTC links with an active partner.

SNA I/O buffers (SIB). Storage areas that are assigned for NCP read operations and CTC read and write operations.

SNA message recovery. An optional feature that uses a system recovery table to track input and output messages to insure successful delivery or recovery options.

SNA node. A junction point in a network that contains a physical unit. A node may contain other network addressable units, path control components, and data link control units.

SNCT. Station name conversion table.

SOBT. Static override bitmap table.

socket. An endpoint for communication between processes or applications.

socket address. An address used by socket applications that contains the address family and address associated with a socket.

socket API. Standard application programming interface functions that provide a standard interface to the transport and internet layers of TCP/IP.

socket block table. A table that contains information about sockets that use TCP/IP native stack support.

socket descriptor. The integer value returned to a socket application on a `socket`, `accept`, or `activate_on_accept` function call. The socket descriptor is used as a parameter for subsequent socket API function calls. See also *file descriptor*.

socket sweeper program. A program that cleans up sockets that have not been used for a specified period of time.

socket thread. In a TCP/IP system, a process that shares a socket descriptor with other ECB-controlled segments.

socks server. A circuit-level gateway that provides a secure one-way connection through a firewall to server applications in a nonsecure network.

Note: *Socks* is an abbreviation for *sockets*.

soft error. An intermittent error condition that disappears when the operation is retried. Contrast with *hard error*.

software IPL. The recovery process to restore the system to an operational state after the occurrence of a catastrophic software error. Contrast with *hard IPL*.

SOM. Start-of-message.

SON. System ordinal number.

SON device. A direct access storage device (DASD).

SON format. A system ordinal number format for the file address reference field supported in earlier TPF versions. FARF3, FARF4, FARF5, and FARF6 format addresses are currently supported.

sorted bag collection. A type of collection with ordered, nonunique elements that are not accessible by a key. Elements are ordered in ascending collating sequence by the nonunique sort field.

sorted set collection. A type of collection with elements sorted by a user-specified unique sort field.

source program. A set of instructions written in a programming language that must be translated to machine language before the program can be run.

SPA. Scratch pad area.

spare RVT entry. An entry in the resource vector table that is not assigned to a resource.

special file. A file that provides an interface to an input/output (I/O) device (such as a line printer), a logical subdevice (such as a large section of a disk drive), or a pseudo-device (such as the null file, `/dev/null`).

spin lock. A mechanism to cause a process (program), processing on behalf of an entry, to wait until another entry has modified shared system data.

SPM. Structured programming macro.

SPTA. Segment and page table area.

SQL. Structured query language.

SRT. System recovery table.

SS. Subsystem.

SSCP. System services control point.

SSID. Subsystem ID.

SSST. Subsystem status table.

SSU. Subsystem user.

SSUID. Subsystem user ID.

stack block. A storage block containing one or more stack frames.

stack exception routine. A routine that manages the stack blocks, including initializing the first stack frame in the first block that contains the storage used by the TPF system and C library functions. The routine is called by a prolog whenever there is no stack block chain, or when another block is required.

stack frame. The storage reserved by the compiler to hold the C automatic variables, parameter lists, and register save area for an individual function.

stage. The state of the file addresses in the TPF system indicating which file address formats are supported by the FACE table; currently, either FARF3/FARF4 or FARF4/FARF5.

staged NCB directory records. The node control block (NCB) directory records that are used by the NCB reorganization function to change the number of NCB directory records in the TPF system.

standard data/message file (SDMF). A storage facility for canned (prepared) messages and other data that may be called by any program.

standard error (stderr). The place where many programs place error messages; for the TPF file system, this is the /dev/null special file unless redirected. An output stream usually intended to be used for diagnostic messages. (POSIX.2) In the TPF file system, UNIX, and POSIX, stderr is associated with file descriptor 2.

standard input (stdin). The primary source of data going into a program. For the TPF file system, this is the /dev/tpf.msg special file unless redirected. The conventional name for file descriptor 0.

standard output (stdout). The primary destination of data coming from a program. For the TPF file system, this is the /dev/null special file unless redirected. The conventional name for file descriptor 1.

standby tapes. Tapes that are available to the system for forced or voluntary tape switch. Standby tapes must have the same symbolic name as the tapes that they supplement.

start-of-message (SOM). The output message character that directs terminal hardware to a location on specific kinds of terminals where the message should be displayed.

state change interruption. A combination of bits in the status byte of a DASD I/O operation that occurs for a change in the 3990 record cache subsystem or device. The status bit combination includes attention, device end, and unit exception. This interruption is sent to all hosts to inform them of the state change.

statement. An instruction that ends with the ; (semicolon) character or several instructions that are surrounded by the characters { and }.

static block. A storage block containing one or more static frames.

static exception routine. A routine that manages static blocks. This routine is called by the C compiler-generated function prolog whenever static variables are declared for the function.

static frame. The storage reserved by the C compiler to hold all of the static variables declared in a given compile unit (TPF E-type program segment).

static function. A function called only by other functions residing in the same C source module. Synonymous with *internal function*.

static override bitmap table (SOBT). A table that associates system error numbers with keywords representing storage areas to include in dumps. Entries in the SOBT are generated by the IDOTB macro.

static virtual IP address. A virtual Internet Protocol address (VIPA) that cannot be moved between processors.

station name conversion table (SNCT). The system table that associates every bisynchronous station address with a 4-character symbolic name and provides pointers to the application name table.

STC. System test compiler.

stderr. Standard error.

stdin. Standard input.

stdout. Standard output.

stepping mode. When a stepping signal is synchronized to a Sysplex Timer (STR) oscillator signal, the configuration is in STR stepping mode. Otherwise, the configuration is in local stepping mode.

stepping port. The port of a CPC that receives the Sysplex Timer (STR) oscillator signal. Used to synchronize the stepping signal.

stepping signal. The stepping signal is used to increment all TOD clocks and to decrement all CPU timers in a configuration. The signal may be synchronized to a Sysplex Timer (STR) oscillator signal received from either of the 2 CPC ports, or synchronized to a local or remote oscillator.

storage protection. Three hardware protection facilities are provided to protect the contents of main storage from destruction or misuse by programs that contain errors or are unauthorized: key-controlled protection, page protection, and low-address protection. The protection facilities are applied independently. Access to main storage is only permitted when none of the facilities prohibit the access. See *key-controlled protection*, *low-address protection*, and *page protection*.

STR. Sysplex Timer.

stream. A continuous sequence of data elements being transmitted, or intended for transmission, in character or binary-digit form, using a defined format.

string constant. Zero or more characters enclosed in double quotation marks.

structure. (1) In coupling facility (CF) support, a construct used by the TPF system to map and manage storage on a CF. See *coupling facility (CF) list structure*. (2) A variable that contains an ordered group of data objects. Unlike an array, the data objects within a structure can have varied data types.

structured programming macro (SPM). A macro that is used to add structured programming verbs to existing assembler language.

structure object. An object that TPF collection support (TPFCS) uses to sort or retrieve the data of a given collection. A structure object falls into either of two categories: compact structure or extended structure. See also *compact structure* and *extended structure*.

structure record. The pool record that contains the structure object of a collection.

structure tag. The identifier that names a structure data type.

structured query language (SQL). A programming language used to define and access relational data and control access to relational database resources.

STSA. System temporary save area.

STTS. System test terminal simulation.

STV. System test vehicle.

suballocation. The carving of a 4K frame into 1 or more storage blocks.

subarea address table (SAT). The system table that contains the path information required to reach any subarea in an ACF/SNA network.

subclass. A specific class of a more generic class.

subdirectory. A directory contained within another directory.

submailbox. In mailbox naming hierarchy, a lower-level mailbox. For example, `user1.projects.work.mail` and `user1.projects.fun.swingset` are both submailboxes of the mailbox `user1.projects`.

subscript. One or more expressions, each enclosed in brackets, that follow an array name. A subscript references an element in an array.

subsystem (SS). An application or group of applications sharing a database. See also *multiple database function (MDBF)*.

subsystem ID (SSID). The field that identifies a subsystem in an MDBF or RCS environment. The SSID may be used to access information pertaining to that subsystem. An identifier used by RCS support to uniquely identify each caching subsystem.

subsystem status table (SSST). A record cache subsystem control table used to represent the active 3990 caching control unit complex and its attached devices.

subsystem user (SSU). A unique subset of a subsystem database. A collection of subsystem users that share a database constitutes a subsystem.

subsystem user ID (SSUID). The field that identifies a subsystem user in a subsystem. The SSUID may be used to access information pertaining to that subsystem user.

superclass. A generic class of a more specific class.

superuser. A system user who operates without restrictions. A superuser has the special rights and privileges needed to perform administrative tasks.

superuser authority. The unrestricted ability to access and modify any part of the operating system, usually associated with the user who manages the system.

suspend list. A secondary CPU loop list which contains entries that were suspended after exceeding a system resource threshold. The suspend list is used for the LODIC macro when the availability of a particular block type has fallen below a defined shutdown level, or the TMSLC macro when the entry has run for a defined time limit.

SVA. System virtual address.

SVAT. System virtual address table.

SVM. System virtual memory.

SWB. System work block.

SWB control table (SCT). A table that keeps track of which system work blocks (SWBs) are in use and the address of the routine that obtained and released the blocks.

sweep. The process of relocating messages on a slowly serviced queue from main storage memory to DASD. See also *slow queue*.

swing. The process of moving all current messages from one transmission queue to another specified transmission queue and forcing all future messages intended for the original queue to be placed on the new destination queue.

switch expression. The controlling expression of a `switch` statement.

switchable resources. In a loosely coupled complex, resources that can be used by only 1 processor at a time. Examples of switchable resources are unit record devices, tape devices, system utilities, and communication control units.

symbolic address. The address of a record in file storage that consists of a record type and ordinal number.

symbolic device address (SDA). A logical device address. For device types 37x5 and SNA CTC, the address must be in the 'X'0001' to 'X'7FFF' range. For DASD, the symbolic device address is made up of a logical channel/control unit/device address with more restrictions. The mapping of symbolic device addresses to real device addresses is done when the input/output configuration program (IOCP) is generated.

symbolic device address table (SDAT). A table created by SIP from the IODEV macros and copied into the SNA keypoint containing 37x5 NCP and channel-to-channel (CTC) symbolic device addresses.

symbolic line status table (SLST). The table used by the control program to control and maintain status of the communication network. It is the primary control table for the non-SNA communication network.

symbolic link. A type of file that contains the path name of, and acts as a pointer to, another file or directory.

symbolic module number. A field in the file status table that points to a particular DASD device.

synchronous link control (SLC). A line control procedure that uses full-duplex voice-grade lines, and transmits at 2400–9600 bits per second.

synchronous messaging. A method of communication between programs in which programs place messages on message queues. With synchronous messaging, the sending program waits for a reply to its message before resuming its own processing. Contrast with *asynchronous messaging*.

syncpoint. An intermediate or end point during the processing of a transaction at which the protected resources of a transaction are consistent. At a syncpoint, changes to the resources can safely be committed or they can be backed out to the previous syncpoint.

syntax. The rules for the construction of a command or a program.

SYSEQ tag. A system equate that provides a symbolic name for a system parameter or commonly used constant.

syslog daemon. A server process that provides a message logging facility for application and system processes.

Sysplex Timer (STR). An IBM 9037 unit that synchronizes the time-of-day (TOD) clocks in as many as 16 processors or processor sides. A common time source for clock synchronization across central processing complexes (CPCs).

system. The computer and its associated devices and programs.

system allocator (SALO). The program that generates the PAT and SAL tables from the program allocator list (IBMPAL).

system allocator table (SAL). One of the tables output by the system allocator (SALO). It is used by the TPF linkage editor (LEDT) to resolve external references.

system collector. The data collection program that records system activity data (core block availability, ECBs in use, entries on CPU queues, CPU clocks, input messages by source) at timed intervals.

system communication keypoint records (SCK). The main storage resident records used to define the non-SNA portion of the communication network.

system contraction. The online deletion of processors from a loosely coupled complex.

system expansion. The online addition of processors to a loosely coupled complex.

system heap. In a TPF system, a virtual address space located at the end of system virtual memory, which is only backed by system frames when requested. The storage is not attached to any ECB, but is accessible by all ECBs because it is not mapped as ECB virtual memory (EVM) unique storage.

system ID. A three-part name identifying a particular TPF CPU. The system ID consists of an enterprise name, a TPF complex name, and a CPU ID.

system initialization program (SIP). The two-phase process that generates a TPF system according to user requirements. Hardware, software, and communications configurations are defined according to the SIP macro parameters selected by the user. The macros are passed to the assembler and an MVS JCL job stream is produced (SIP stage I). is produced. When this job stream is processed (SIP stage II), it produces the initial TPF system.

system interprocessor communication facility (SICF) or (SIPC). See *interprocessor communications*.

system loader. See *auxiliary loader* or *E-type loader*.

system macros. Macros that are restricted to system use. There are three types of system macros: those that require authorization, those that do not require authorization, and those that are restricted to the control program (CP).

system message processor (SMP). The system ECB-controlled programs that process commands.

system ordinal number (SON). Deprecated term for *database ordinal number (DBON)*. In earlier TPF system releases, system ordinal number was used to identify the logical/relative record numbers across the entire database. The term is no longer used.

system performance measurement. Online data collection programs and offline data reduction programs that provide statistics with which the user can analyze system performance.

system program save area. The ECB area used to save the current contents of general registers when an application program issues a control program macro.

system recovery table (SRT). A table used to reintroduce lost or timed-out input messages and retransmit lost or timed-out output messages.

system restart. See *restart*.

Systems Application Architecture (SAA). A set of IBM software interfaces, conventions, and protocols that provide a foundation for designing and developing consistent applications across systems.

system services control point (SSCP). A focal point in the SNA network that manages the network, coordinates operator and problem determination requests, and provides general support for users of the network. Multiple SSCPs divide the network into domains of control. Each SSCP controls the logical units and physical units in its domain.

Systems Network Architecture (SNA). The description of the logical structure, formats, protocols, and operational sequences for transmitting information units through, and controlling the configuration and operation of, networks.

system state. The condition of the operating system in terms of the level of functions that can be performed. Beginning with the lowest or least active system state, the 5 states are: 1052, UTIL (utility), CRAS, MESW (message switching), and NORM.

system state change. The function called by a command or by an internal request that makes a transition among the 5 system states.

system temporary save area. The control block that provides an extended save area for the TPF system.

system test. The PTV testing procedure where all programs undergo multithread testing in an environment that simulates the actual system.

system test compiler (STC). The offline program that creates tapes to be used for test units for PTV or pilot tapes for the data loader.

system test terminal simulation (STTS). A package of simulator programs that format and print input and output messages as the messages would appear on specified terminals.

system test vehicle (STV). A facility under PTV used to introduce input messages during system testing.

system virtual address (SVA). A location inside of system virtual memory for an I-stream.

system virtual address table (SVAT). The table in the ECB that is used to keep track of the system virtual addresses of all pages mapped in the ECB virtual memory.

system virtual memory (SVM). Virtual memory, used only by control program code, that maps all of the memory in each of the ECB address spaces, plus some memory that is not available at all in the ECB address spaces. There is 1 system virtual memory per I-stream in a tightly coupled complex.

system work block (SWB). A storage block provided by the system for system use; cannot be used as a TPF block. Contrast with *input/output block (IOB)*.

T

tag name. A C identifier for a global field or record, that corresponds to the assembler label of the same name. It is defined as a unique 32-bit unsigned integer. The bit settings that make up the integer reflect attributes of the global field or record.

tape device assignment. The association of a tape device with a tape group name and subsystem user.

tape device assignment table (TDAT). A table used to associate tape devices with tape group names.

tape group. A set of associations between tape labels (tape names) and tape devices. Each tape group is identified by a tape group name.

tape group definition table (TGDT). A processor-unique table used during automatic tape mounting that contains a list of tape group names.

tape group name. A processor-unique tape group identifier. The names ALL and NONE are reserved group names that cannot be deleted.

tape label assignment. The association of a tape label (tape name) with a tape group.

tape module number. The ordinal number of the tape status table (TSTB) entry the specified device or tape is using.

tape reconfiguration. The process of adjusting available tape drives to fluctuating system, application, and hardware maintenance requirements.

tape status table (TSTB). A system table containing the data required to control tape operations. Each TSTB item provides durable (for example, device address) and transient (for example, sense data) information for a particular tape.

tape switch. The process of activating the next physical tape volume for a given symbolic tape name when processing of the current tape volume has completed. The next volume to be activated may be a standby tape or an alternate tape (ALT).

tape symbolic name. A 3-character name assigned to each tape and used with the tape status table to control tape resources and operations. Certain names are reserved by the TPF system; all other combinations are available to users.

task control area (TCA). The control block used to communicate between the TPF system and the C compiler generated code and run-time library.

TC. Tightly coupled.

TCA. Task control area.

TCID. Transport connection identifier.

TCP. Transmission Control Protocol.

TCP/IP. Transmission Control Protocol/Internet Protocol.

TDAT. Tape device assignment table.

Telnet. In the Internet suite of protocols, a protocol that provides remote terminal connection service. It allows users of one host to log on to a remote host and interact as directly attached terminal users of that host. Telnet uses the Transmission Control Protocol (TCP) as the underlying protocol.

temporary collections. Collections that reside in the private heap area of the ECB and overflow to short-term pools. These collections are deleted when the ECB exits because the private heap area of the ECB is reclaimed by the system at ECB exit.

terminal address table (WGTA). See *WGTA table*.

terminal control block. Collectively refers to the scratch pad area (SPA), routing control block (RCB), and agent assembly area (AAA).

terminal identification table. Collectively refers to the terminal address table (WGTA) and the resource vector table (RVT).

terminal interchange. A term associated with telecommunication components that predate SNA support. A terminal interchange is functionally the same as a cluster controller.

test unit tape (TUT). A tape generated with STC for input to PTV, containing one or more test units and their required environments. TUT is a reserved tape symbolic name.

TFTP. Trivial File Transfer Protocol.

TGDT. Tape group definition table.

THDR. Transport header.

THGL. Thread global data control block.

thread control block (TTCB). The control block used to define thread types.

thread global data control block (THGL). The control block used to contain thread information in a given process.

thread stack definition table (TSDT). The control block used by the thread address space manipulation routines to locate each thread stack.

thread stack usage table (TSUT). The control block used to maintain the current status for each thread stack in a given process.

throw exception. Any user, logic, or system error detected by a function that does not itself deal with the error but passes the error on to a handling routine.

TI. Terminal interchange.

tightly coupled. A multiprocessing environment in which multiple I-stream engines in a single processor complex run concurrently.

tightly coupled (TC) complex. The synchronization of shared main storage in an ESA configuration of multiple I-stream engines. An ESA configuration with only one I-stream engine is called a uniprocessor and one with multiple I-stream engines a multiprocessor. Uniprocessor and multiprocessor are terms in the TPF system that are to be associated with tightly coupled multiprocessing.

tightly coupled (TC) multiprocessing. Refers to the synchronization of access to shared main storage in a central processing complex (CPC) of 2 or more I-stream engines.

time available supervisor (TAS). A procedure for accepting low-priority work items.

time-of-day clock synchronization. The process used to synchronize TOD clocks.

TLD. A symbolic name, reserved to TPF, for a general tape denoting the load medium to be used by the auxiliary loader function.

TOD. Time-of-day.

TOD clock control override facility. The facility that permits the control program to set the TOD clock without requiring operator intervention.

TOD clock synchronization. Time-of-day clock synchronization.

TOD synch check. An interrupt generated when a TOD clock goes out of synchronization with the external synchronization source.

TOD synchronization compatibility (TSC) hardware. A hardware RPQ required when there are TOD RPQ CPCs and Sysplex Timer (STR) CPCs in the same loosely coupled complex.

token. A 32-bit value used for efficient interfacing of processors in MPIF complexes.

token-ring network. A network that supports unidirectional transmission of data by passing a token from data station to data station until the data returns to the original station.

TP. Transaction program.

TPF Advanced Program-to-Program Communications (TPF/APPC). An implementation of the SNA LU 6.2 protocol that allows interconnected systems to communicate and share the processing of programs.

TPF API functions. C library functions that provide TPF-specific services.

TPF/APPC. TPF Advanced Program-to-Program Communications.

TPF block. One of the storage blocks that can be attached to the CBRW of an ECB. TPF has 128-, 381-, 1055-, and 4095-byte blocks.

TPF C implementation data (CID). A control block that contains the address of the ISO-C static exception routine. It is initialized by the CINFC macro.

TPF CLAW device interface. Provides CLAW I/O functions, manages I/O queues, and handles I/O completions using the Common Link Access to Workstation (CLAW) protocol.

TPF CLAW services. Provides the control program service routines for the CLAW API functions and enters the TPF CLAW device interface to complete the processing of the CLAW functions.

TPF complex name. See *complex name*.

TPFAR. Transaction Processing Facility Application Requester.

TPFCS. Transaction Processing Facility collection support.

TPFCS database. A database that provides a set of services for any application that would like to store persistent collections. The TPFCS database handles collection sizes from 1 element to more than 2 000 000 000 elements.

TPFCS primary record. The first logical copy of each record used to represent a collection. If a collection is not shadowed, TPF collection support (TPFCS) then uses only primary records to represent the collection.

TPFCS shadow record. A duplicate copy of each of the records used to represent the TPF collection support (TPFCS) collection in the TPF database. TPFCS provides shadowing independent of TPF duplication of files.

TPFDF. Transaction Processing Facility Database Facility.

TPF_regs. A C data structure used as a register save area and parameter passing area when calling an assembler program. TPF_regs contains the values of general registers R0–R7.

TPNS. Teleprocessing network simulator.

TPNT. Transaction program name table.

TPSA. A field in the TCA that is used by the TPF ISO-C startup code to store the address of an area for saving registers. The stack overflow routine uses this field to access the area for saving registers.

transaction. A series of messages related to a processing requirement.

transaction manager (TM). In TPF transaction services, a manager that provides a set of application program interfaces (APIs) for an application to define the scope of a transaction and actions to be taken for the transaction. The TM coordinates resource managers and determines which resources are written to the recovery log at commit time and which resources are recovered at restart time.

Transaction Processing Facility Application Requester (TPFAR). A TPF feature that allows TPF application programs to read and write directly to DATABASE 2 Version 2 Release 3 or later.

Transaction Processing Facility Database Facility (TPPDF). An IBM licensed program that is a database manager for application programs that run in a Transaction Processing Facility (TPF) environment, or under Airline Control System MVS/XA (ALCS/MVS/XA), or Airline Control System Version 2 (ALCS V2).

transaction program (TP). An application program that uses APPC communication services to communicate with a partner transaction program. A TPF local transaction program uses the TPF/APPC services, and a remote transaction program may use some other implementation of the APPC architecture.

transaction program name table (TPNT). A table used to define the local TPF transaction program names as known by the remote transaction programs.

transaction unit. In the program test vehicle (PTV), a gradient of program testing that allows a complete transaction to be tested in a single thread environment. If all application programs are available, the driver is not required. It can be used to monitor the test. Also see *package unit* and *full scale*.

Transmission Control Protocol (TCP). A communications protocol used in the Internet and in any network that follows the U.S. Department of Defense standards for inter-network protocol. TCP provides a *reliable* host-to-host protocol between hosts in packet-switched communications networks and in interconnected systems of such networks. It assumes that the Internet protocol is the underlying protocol. See also *User Datagram Protocol (UDP)*.

Transmission Control Protocol/Internet Protocol (TCP/IP). A set of communications protocols that support peer-to-peer connectivity functions for both local and wide area networks.

transmission queue. A local queue on which prepared messages destined for a remote queue manager are temporarily stored.

transport connection identifier (TCID). An 8-byte hexadecimal value that is used to uniquely identify a rapid transport protocol (RTP) connection.

transport header (THDR). The part of the network layer packet (NLP) that contains control information about the rapid transport protocol (RTP) connection.

transport layer. The layer in the Internet architecture that provides the end-to-end data transfer. TCP/IP support provides support for both TCP and UDP protocols as application interfaces to Internet Protocol (IP).

triggering. In MQSeries, a facility that allows a queue manager to start an application automatically when predetermined conditions on a queue are satisfied.

trigger message. A message containing information about the program that a trigger monitor is to start.

trigger monitor. A continuously running application serving one or more initiation queues. When a trigger message arrives on an initiation queue, the trigger monitor retrieves the message and uses the information in the trigger message to start a process that serves the queue on which a trigger event occurred.

Trivial File Transfer Protocol (TFTP). A protocol for file transfer that requires minimal overhead and provides minimal capability. TFTP uses the connectionless datagram delivery services of the User Datagram Protocol (UDP).

truncate. To shorten a value to a specified length.

try block. A block in which a known C++ exception is passed to a handler.

TSC. TOD Synchronization Compatibility.

TSC Hardware. Time-of-day Synchronization Compatibility Hardware RPQ.

TSDT. Thread stack definition table.

TSTB. Tape status table.

TSUT. Thread stack usage table.

TTCB. Thread control block.

TUT. Test unit tape.

type balancing. A conversion that makes both operands have the same data type.

type class. A category of related data types. The C-language type classes are: aggregate, scalar, arithmetic, and integral.

type definition. A definition of a synonym for a data type.

type specifier. A name of a data type.

U

UDD. Universal data display.

UDDC. Universal data display client.

UDDS. Universal data display server.

UDP. User Datagram Protocol.

UFT. Universal format type.

UFT/FTI conversion table. A two-stage lookup table for decoding FARF4, FARF5, and FARF6 addresses.

UID. User ID.

unary expression. An expression that contains one operand.

unblocked tape. A tape recorded with undefined length (format-U) blocks. The logical records on the tape are usually referred to as *unblocked records*. An unblocked tape contains one record for each block. Contrast with *blocked tape*.

Unicode. A character coding system designed to support the interchange, processing, and display of the written texts of the different languages. The XML4C parser is fully compliant with the Unicode 3.0 specification. For details about the Unicode Standard, go to the Unicode Consortium's Web page at <http://www.unicode.org>.

uniform resource locator (URL). For Hypertext Markup Language (HTML) documents and for the World Wide Web, a sequence of characters that represent information resources. This sequence of characters includes (a) the abbreviated name of the protocol used to access the information and (b) the information used by the protocol to locate the information resource. For example, in the context of the Internet, these are abbreviated names of some protocols used to access various information resources: `http`, `ftp`, `gopher`, `telnet`, and `news`; and the Web address for the IBM home page, which is `http://www.ibm.com`

union. A variable that can hold any one of several data types, but only one data type at a time.

union tag. The identifier that names a union data type.

uniprocessor. A processor with only one I-stream.

unique collections. Collections in which no two elements have the same value (such as bags and logs) or the same key (such as dictionaries and key bags).

unique record. A fixed file record that is unique to any subsystem user, processor, or I-stream. Contrast with *shared record*.

unique resource. A resource that is not shared among processors, I-stream engines, subsystems, or subsystem users.

unit of work. A recoverable sequence of operations performed by an application between two points of consistency. A unit of work begins when a transaction starts or after a user-requested syncpoint. It ends at either a user-requested syncpoint or at the end of a transaction.

unit record status table (URST). A system table that contains information indicating the status of all unit record devices in the system.

universal data display (UDD). A component of the TPF C Debugger for VisualAge Client and TPF Assembler Debugger for VisualAge Client that displays synchronized data for both debuggers. It consists of a server (UDDS) and a client (UDDC). See also *universal data display server (UDDS)* and *universal data display client (UDDC)* .

universal data display client (UDDC). A component of the universal data display (UDD) that resides on a user's workstation. It displays data sent to it from the UDDS and also communicates user requests to the UDDS. See also *universal data display (UDD)* and *universal data display server (UDDS)* .

universal data display server (UDDS). A component of the universal data display (UDD) that communicates to the UDDC data residing in the address space of the ECB being debugged. See also *universal data display (UDD)* and *universal data display client (UDDC)* .

universal format type (UFT). A 6-bit field at the front of FARF4 and FARF5 addresses and a 16-bit field at the front of FARF6 addresses. The value in this field is used to determine the size of the format type indicator (FTI) field of the address. Once the FTI size is known, its value can be determined. A specific UFT/FTI combination is related to a specific record type in the TPF system.

universal unique identifier (UUID). An attribute that consists of a network address and a timestamp, used to specify the interface definition.

UNIX operating system. An operating system developed by Bell Laboratories that features multiprogramming in a multiuser environment. The UNIX operating system was originally developed for use on minicomputers but has been adapted for mainframes and microcomputers.

unmigrated state. In pool file support, a condition that refers to a processor that has not been IPLed on an image that contains the pool support provided by 32-way loosely coupled pool support. See also *pool migration* and *pool conversion*.

unsolicited message processor. A collection of programs that handle unsolicited messages to terminals or LUs logged to applications.

update sequence counter. A field used by TPF collection support (TPFCS) to control updates made to an object.

UPR. User profile record.

URL. Uniform resource locator.

URST. Unit record status table.

User Datagram Protocol (UDP). An application interface to Internet Protocol (IP). It adds no reliability, flow control, or error recovery to IP. It simply serves as a vehicle for sending and receiving IP datagrams and using ports to direct the datagrams. See also *Transmission Control Protocol (TCP)*.

user exit. A point in the TPF system where a user-written routine can perform installation-unique processing.

user exit vector. See *exit vector*.

user expansion area. An area reserved for application use that is at the end of the C library function work area contained in the first stack frame.

user global symbol table. In expression enhancements for the TPF debuggers, a table that contains global symbol definitions that do not exist in a real-time assembler program. The global symbol definitions map to system structures that are not referenced in the real-time assembler program. You can use the user global symbol table user exit (UGST) to define global symbols.

user ID (UID). A nonnegative integer that is used to identify a user.

user profile record (UPR). In TPF Internet mail server support, a record that contains account information and the list of mailboxes for the user.

user symbol override table. In expression enhancements for the TPF debuggers, a table that contains global symbols that are used to override symbol definitions in the local symbol table or the common symbol table. For example, you can define symbol D0 in the symbol override table as a pointer to the storage block on data level 0 to override the definition in data macro (DSECT) CPSEQ, which has a value of 0. You can use the user symbol override table user exit (USOT) to define these global symbols.

UTIL state (utility state). One of 5 system states. In utility state, clock management is provided, disk lost interrupt is active, and commands are the only permitted input.

UUID. Universal unique identifier.

V

valid. In XML, the term used to describe a document that conforms to the rules of the associated schema. See also *schema*.

validation. A process that checks persistent collection structures to ensure that they are built correctly.

variable cross-reference support (VCRS). The offline program that scans a partitioned data set and prints a cross-reference listing of the global variable symbols used in the data set, lists the PDS members in which the symbols are used, and lists any other global variables that depend on those members.

VCRS. Variable cross-reference support.

VCT. Virtual file access (VFA) count.

VEQR. Virtual-equals-real.

VEQV. Virtual-equals-virtual.

verb. A conversation statement that transaction programs issue to communicate through the LU 6.2 protocol boundary. The program's current conversation state determines what verbs a transaction program can issue.

vertical allocation. When allocating record space on DASD, logically adjacent records are allocated sequentially to the same physical device. Contrast with *horizontal allocation*.

VFA. Virtual file access.

VFA candidate. A record held in virtual file access (VFA) that may or may not be synchronized across processors. A record that is synchronized across processors is called a *VFA synchronization candidate*.

VIPA. Virtual Internet Protocol (IP) address.

virtual address. The address of a location in virtual storage. A virtual address must be translated into a real address to process the data in processor storage. See also *absolute address*, *logical address*, *physical address*, and *real address*.

virtual-equals-real (VEQR) mode. An operating mode in which system virtual memory (SVM) addresses are equal to ECB virtual memory (EVM) addresses. Virtual-equals-real (VEQR) mode is used to test and debug code that is being migrated to the TPF 4.1 system.

virtual file access (VFA). A storage management facility that dynamically allocates frequently referenced records to main storage.

virtual file access count (VCT) list. A secondary CPU loop list which contains entries that were forced to give up control after exceeding a system resource threshold, one of which is the number of virtual file access (VFA) record accesses.

virtual IP address (VIPA). An Internet Protocol (IP) address that is associated with a Transmission Control Protocol/Internet Protocol (TCP/IP) stack without associating with a specific physical network attachment, thereby allowing error recovery if failures occur.

virtual reader. The VM/ESA facility that supplies input to a virtual machine.

Virtual Telecommunications Access Method (VTAM). An IBM licensed program that controls communication and the flow of data in a computer network. It provides single-domain, multiple-domain, and multiple-network capabilities.

VTAM. IBM Virtual Telecommunications Access Method.

W

WAN. Wide area network.

Web browser. A client program that allows a user to navigate the Internet World Wide Web through hypertext links. These links, called uniform resource locators (URLs), specify the protocol, location, and file name of each document. The documents can be text, graphics, video, or audio. The links can also use other protocols such as File Transfer Protocol (FTP).

Web page. A Hypertext Markup Language (HTML) document that can be accessed by a uniform resource locator (URL) on the World Wide Web. Contrast with *home page*.

well-known port. In the Internet suite of protocols, one of a set of preassigned protocol port numbers in the range 1–1023 that address specific functions used by transport-level protocols such as the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP). For example, File Transfer Protocol (FTP) uses well-known port 21, Trivial File Transfer Protocol (TFTP) uses well-known port 69, and Hypertext Transfer Protocol (HTTP) uses well-known port 80.

well-formed. A term used to describe an XML document that follows the basic rules for writing XML markup language. These rules include, but are not limited to the following:

- Every XML document must have a root element.
- All tags must be opened and closed. XML also allows you to write empty elements by adding an ending slash before the closing bracket; for example, `<address />`.
- Tags must follow nesting rules.
- Either single quotations (' ') or double quotations (" ") must surround the value of an attribute.

Go to the XML specification on the W3C Web site at <http://www.w3.org/> for more specific information about well-formed documents.

WGTA table. A TPF control table that serves as the focal point for the system records associated with unique terminals; namely, the agent assembly area (AAA) and the routing control block (RCB).

white space. Space characters, tab characters, form feed characters, and new-line characters.

wide area network (WAN). A network that provides communication services to a geographic area larger than that served by a local area network or a metropolitan area network and that may use or provide public communications facilities.

wide-oriented file. A file stream that contains only multibyte characters.

wildcard address. When a socket address is specified as `INADDR_ANY`, the system interprets the address as any address. If the caller of a `bind` function specifies the internet address as `INADDR_ANY`, the socket is bound to all network interfaces on the host.

wildcard character. A special character, such as an asterisk (*), that can be used to represent one or more characters.

working directory. The active directory used to resolve path names that do not begin with a slash (/). A working directory can also be referred to as the current directory or the current working directory. A directory, associated with a process, that is used in path name resolution for path names that do not begin with a slash. (POSIX.1) Synonym for *current directory*, *current working directory*.

working storage. Refers to those areas of main storage that are (1) available to application programs as system resources and (2) the system control blocks used for managing an entry. Contrast with *fixed storage*.

World Wide Web Consortium (W3C). A body that makes recommendations for standard Web specifications. The W3C developed the DOM specification and the technology behind namespaces and schemas (DTD and XML Schema). For more information, go to the W3C Web site at <http://www.w3.org/>. See also *namespace* and *schema*.

writable static control block (WSCB). A hashing table that contains the addresses of the DLM writable static blocks used by the ECB.

write lock. A means to inform a process that another process has write access to a file and does not want to share access.

WRT. E-type loader working record table.

WSCB. Writable static control block.

W3C. World Wide Web Consortium.

X

X.25 NCP Packet Switching Interface (NPSI). An IBM licensed program offering Systems Network Architecture (SNA) users the ability to use communications facilities that support the X.25 Interface as defined by the Telecommunication Standardization Sector (TSS), formerly known as the International Telegraph and Telephone Consultative Committee (CCITT).

XID. Exchange identification.

XLF. External lock facility.

XML. Extensible Markup Language (XML).

XML-DEV. A mailing list hosted by OASIS. The members of the mailing list collaboratively developed the SAX specification. To view or join the mailing list, go to <http://www.xml.org>.

XML Schema. A type of schema. See also *schema*.

Z

Z-messages. commands; sometimes called Z-messages because the first character of the message is always Z.

zero suppression. The substitution of blanks for leading zeros in a number. For example, 00057 becomes 57 when using zero suppression.

Numerics

1052 state. The lowest and least active of the 5 system states. Support is not available for clock management, file data management, or communication facilities. Keypoint update is active. Certain commands are the only allowable input.

3270 simulation. The facility that allows 3270 devices to be used in place of 2915/4505 display devices or 1977/1980 printers without requiring application code changes.

3480 format. An 18-track recording format used when tape data compaction and auto blocking are not enabled.

3480 XF format. An 18-track recording format used when tape data compaction and auto blocking are enabled.

3480-2 XF format. A 36-track recording format using tape auto blocking. This format is used whether data compaction is enabled or disabled.

4505 simulation. The facility that simulates 4505-type terminals on 3270-type terminals.

4-byte file address. A basic element of data organization in the TPF system that is defined as a FARF3, FARF4, or FARF5 file address.

4-byte file address standard header. A 16-byte record header containing either 4-byte forward and backward chain address fields or zeros starting at X'008'.

4x4 format. An 8-byte file address with a high-order 4-byte indicator that contains zeros and a low-order 4-byte FARF3, FARF4, or FARF5 address. 4x4 format is the method by which a 4-byte symbolic file address in FARF3, FARF4, or FARF5 format is maintained as an 8-byte file address.

8-byte file address. A basic element of data organization in the TPF system that is defined as a 4x4 or FARF6 format. See also *4x4 format*.

8-byte file address standard header. A 32-byte record header containing either 4-byte forward and backward chain address fields or zeros starting at X'010'.

Special Characters

#define statement. A preprocessor statement that directs the preprocessor to replace an identifier or macro invocation with specified code.

#FLOCK record. A processor-shared fixed file record that is used to indicate a file lock.

#include statement. A preprocessor directive that causes the preprocessor to replace the statement with the contents of the specified file.

#pragma linkage. A preprocessor directive that notifies the compiler of the type of function call expansion and return linkage to be generated for a given function.

#pragma map. A TPF-defined instruction to the C compiler that notifies the compiler of the external name to be used for calls to external and library functions.

#PROGn. A 4 KB block that contains ordinals that represent the C load module or library that is to be loaded into core storage. Its header has a forward chain that can point to ordinal #XPRG (*ordinal_#XPRG*) records that contain more ordinals for the remaining C load module, if necessary, depending on the size of the program or library.

#XPRGn. A record type that contains two kinds of information: (1) If chained off #PROG, it contains more ordinals for the remaining C load module. It is also referred to as *ordinal_#XPRG*. (2) If pointed to by the ordinals in #PROG (and *ordinal_#XPRGs*, if necessary), it contains the text (machine executable code) or ADCON relocation information.

Master Index to the TPF Library

This master index is built from the individual indexes in each TPF publication. Publications are identified in this index by the document reference codes used throughout the library. To locate an item, go to the publication pointed to by the reference code in this master index; its index will have an identical entry with the applicable page numbers.

Following is a list of publications in the TPF library with their document reference codes and softcopy file names.

Table 12. TPF Library Reference Codes and Softcopy Names

Publications	Reference Codes	Softcopy Names
General Documents		
<i>TPF ACF/SNA Network Generation</i>	ACF-GDE	GTPACFxx
<i>TPF Application Programming</i>	APP-GDE	GTPAPPxx
<i>TPF C/C++ Language Support User's Guide</i>	CLS-UGR	GTPCLUxx
<i>TPF Concepts and Structures</i>	CON-STR	GTPCONxx
<i>TPF Library Guide</i>	DOC-AID	GTPDOCxx
<i>TPF General Information</i>	GIM	GTPGIMxx
<i>TPF General Macros</i>	GEN-MAC	GTPGENxx
<i>TPF System Macros</i>	SYS-MAC	GTPSYSxx
<i>TPF Migration Guide: Program Update Tapes</i>	MIG-GD2	GTPMG2xx
<i>TPF Migration Guide: TPF 3.1 System to TPF 4.1 System</i>	MIG-GD1	GTPMG1xx
<i>TPF Operations</i>	OPR-GDE	GTPOPRxx
<i>TPF Programming Standards</i>	PSM-GDE	GTPPSMxx
<i>TPF System Generation</i>	SYS-GEN	GTPSYGxx
<i>TPF Transmission Control Protocol/Internet Protocol</i>	CLAWGR	GTPCLWxx
<i>TPFDF and TPF Structured Programming Macros</i>	SPM	BDFSPMxx
Program References		
<i>TPF ACF/SNA Data Communications Reference</i>	SNA-PRM	GTPSNRxx
<i>TPF Application Requester User's Guide</i>	AR-USG	GTPARUxx
<i>TPF Data Communications Services Reference</i>	DCS-PRM	GTPDCRxx
<i>TPF Database Reference</i>	DBS-REF	GTPDBRxx
<i>TPF Main Supervisor Reference</i>	MSP-PRM	GTPMSRxx
<i>TPF Multi-Processor Interconnect Facility Reference</i>	MPI-PRM	GTPMPRxx
<i>TPF Non-SNA Data Communications Reference</i>	NSC-PRM	GTPNSRxx
<i>TPF Program Development Support Reference</i>	PDV-PRM	GTPPDRxx
<i>TPF System Installation Support Reference</i>	INS-PRM	GTPINRxx
<i>TPF System Performance and Measurement Reference</i>	SPM-PRM	GTPSPRxx

Index

Special Characters

/etc/imapd.conf CLAWGR-259
/etc/postfix/access CLAWGR-259
/etc/postfix/main.cf CLAWGR-259
/etc/syslog.conf CLAWGR-246
/etc/syslog.pid CLAWGR-245
/etc/tftp.conf CLAWGR-239, CLAWGR-241
/etc/tpf_mail.conf CLAWGR-259
/tmp/tftp.log file APP-GDE-174
\$ADPC macro CON-STR-87, SYS-MAC-12
\$CKMAC macro SYS-MAC-14
\$CONBC macro MSP-PRM-22, SYS-MAC-16
\$CPUC macro SYS-MAC-19
\$CRISC macro CON-STR-87, SYS-MAC-22
\$DCOLC macro SYS-MAC-24
\$DISBC macro MSP-PRM-22, SYS-MAC-27
\$FINDC macro SYS-MAC-29
\$FORKC macro SYS-MAC-32
\$GCOMC macro MSP-PRM-22, SYS-MAC-33
\$GETBC macro MSP-PRM-22, SYS-MAC-35
\$GETRC macro SYS-MAC-38
\$GEVAC macro MSP-PRM-18, SYS-MAC-40
\$GIOBC macro MSP-PRM-22, SYS-MAC-42
\$GMNBC macro MSP-PRM-22, SYS-MAC-44
\$GSVAC macro MSP-PRM-18, SYS-MAC-46
\$GSWBC macro MSP-PRM-22, SYS-MAC-48
\$GSYSC macro SYS-MAC-50
\$GTSTC macro SYS-MAC-53
\$LCKRC SYS-MAC-55
\$LOCKC macro SYS-MAC-56
\$MASKC macro SYS-MAC-58
\$MONTC macro SYS-MAC-61
\$MOVEC macro SYS-MAC-62
\$RCOMC macro MSP-PRM-22, SYS-MAC-64
\$REVC macro SYS-MAC-66
\$RELBC macro MSP-PRM-22, SYS-MAC-68
\$RELRC macro SYS-MAC-70
\$RETRC macro SYS-MAC-72
\$RIOBC macro SYS-MAC-75
\$RMNBC macro MSP-PRM-22, SYS-MAC-77
\$RSWBC MSP-PRM-22
\$RSWBC macro MSP-PRM-22, SYS-MAC-79
\$RSYSC macro SYS-MAC-81
\$SWSPC macro MSP-PRM-18, SYS-MAC-84
\$TCPLC macro SYS-MAC-87
\$ULKRC SYS-MAC-90
\$UNLKC macro SYS-MAC-91
\$VALEC macro SYS-MAC-93
>32K program
 overview MIG-GD1-18
directive CLAWGR-240
macro
 description of SPM-30
 example of SPM-30
#CASE macro group
 #CASE macro SPM-31
 #CAST macro SPM-31
#CASE macro group (*continued*)
 #ECAS macro SPM-31
 description of SPM-31
 example of SPM-33
 processing flow SPM-81
#CCBRU SNA-PRM-61
#CCBRU records ACF-GDE-24
#CMSIT SNA-PRM-61
#CONB macro
 description of SPM-35
 example of SPM-36
#COND macro
 description of SPM-37
 example of SPM-38
#CONH macro
 description of SPM-39
 example of SPM-40
#CONP macro
 description of SPM-41
 example of SPM-42
#CONS macro
 description of SPM-44
 example of SPM-45
#CONT macro
 description of SPM-46
 example of SPM-47
#CONX macro
 description of SPM-48
 example of SPM-48
#DO macro group
 #DO macro
 FROM parameter SPM-50
 TIMES parameter SPM-50
 UNTIL parameter SPM-50
 WHILE parameter SPM-50
 #DOEX macro SPM-50
 #EDO macro SPM-50
 #ELOC macro SPM-50
 #EXIF macro SPM-50
 #OREL macro SPM-50
 description of SPM-50
 example of SPM-55
 processing flow SPM-82
#EXEC macro
 description of SPM-60
 example of SPM-61
#GOTO macro group
 #GOTO macro SPM-63
 #LOCA macro SPM-63
 example of SPM-64
 processing flow SPM-87
#IBMMP4 records AR-USG-14
#IF macro group
 #EIF macro SPM-65
 #EIFM macro SPM-65
 #ELIF macro SPM-65
 #ELSE macro SPM-65
 #IF macro SPM-65

#IF macro group (*continued*)
description of SPM-65
example of SPM-67
processing flow SPM-86
#include APP-GDE-71
#IPRTE records ACF-GDE-25
#IPxxx SYS-MAC-232
#MAILxx record CLAWGR-255, SYS-GEN-107,
SYS-GEN-110
#NCBRI records ACF-GDE-23
#OLDRx records
allocate MIG-GD1-207
#OSIT record SYS-GEN-112
#OSIT record
Open Systems Adapter (OSA)-Express support
SYS-GEN-112
#pragma linkage statement APP-GDE-15
#pragma map statement APP-GDE-15
#PVR records
changes MIG-GD2-83
define record types MIG-GD1-207
program version record MIG-GD1-207
RAMFIL macro MIG-GD2-83
use by
auxiliary loader (TLDR) MIG-GD1-207
E-type loader (OLDR) MIG-GD1-207
general file loader (ALDR) MIG-GD1-207
#RRTRI records ACF-GDE-52
#RT1RI record SYS-GEN-112
#RT1RI record
HPR support SYS-GEN-112
#RT1RI records ACF-GDE-25
#RT2RI record SYS-GEN-112
#RT2RI record
HPR support SYS-GEN-112
#RT2RI records ACF-GDE-25
#RV1RU records ACF-GDE-24
#RV2RU records ACF-GDE-24
#SBRC macro SYS-MAC-94
#SC1RU SNA-PRM-61
#SC1RU records ACF-GDE-25
#SC2RU SNA-PRM-61
#SC2RU records ACF-GDE-25
#SPARI records ACF-GDE-23
#SPM macro
description of SPM-68
example of SPM-69
#SRTRU records ACF-GDE-24
#STPC macro
description of SPM-71
example of SPM-71
#STPF macro
description of SPM-72
example of SPM-72
#STPH macro
description of SPM-74
example of SPM-74
#STPR macro
description of SPM-76
example of SPM-77

#SUBR macro group
#ESUB macro SPM-78
#PERF macro SPM-78
#SUBR macro SPM-78
description of SPM-78
example of SPM-79
processing flow SPM-88
__CREDC function CLS-UGR-57
__CREEC function CLS-UGR-59
__CREMC function CLS-UGR-62
__CRETCL function CLS-UGR-64
__CRETCL function CLS-UGR-66
__CREXC function CLS-UGR-69
__ENTDC function CLS-UGR-104
#define statement APP-GDE-251
abort function APP-GDE-233
abort library function CLS-UGR-7
accept socket function
accept a connection request CLAWGR-138
access library function CLS-UGR-9
activate_on_accept socket function CLAWGR-82
activate_on_accept socket function
activate a program after data received
CLAWGR-141
activate_on_receipt_with_length function
APP-GDE-173
activate_on_receipt function APP-GDE-173
activate_on_receipt function call, using CLAWGR-129
activate_on_receipt function, sample child server code
CLAWGR-369
activate_on_receipt function, sample server code
CLAWGR-367
activate_on_receipt socket function
activate a program after data received
CLAWGR-144
activate a program after data received with length
CLAWGR-148
addlc function CLS-UGR-11
alarm function APP-GDE-169, CLS-UGR-13
assert macro CLS-UGR-15
atexit library function CLS-UGR-17
attac_ext function APP-GDE-278, CLS-UGR-21
attac_id function CLS-UGR-23
attac function APP-GDE-278, APP-GDE-281,
CLS-UGR-19
bind socket function
bind a local name to the socket CLAWGR-152
c\$am0sg.h header APP-GDE-51
c\$eb0eb.h header APP-GDE-25
c\$globz.h, updating APP-GDE-301
c\$rc0pl.h header APP-GDE-39
calloc function
get contiguous pieces of storage MIG-GD1-307
manage heap storage MIG-GD1-307
ce1sud (detailed summary error indicator) APP-GDE-38
ce1sug (gross summary error indicator) APP-GDE-38
cebic_goto_bss function CLS-UGR-25
cebic_goto_dbi function CLS-UGR-26
cebic_goto_ssu function CLS-UGR-27
cebic_restore function CLS-UGR-28
cebic_save function CLS-UGR-29

chdir library function CLS-UGR-30
 chmod library function CLS-UGR-32
 chown library function CLS-UGR-35
 cifrc function CLS-UGR-37
 cinfc_fast_ss function CLS-UGR-41
 cinfc_fast function CLS-UGR-40
 cinfc function CLS-UGR-38
 claw_accept function CLAWGR-386
 claw_closeadapter function CLAWGR-388
 claw_connect function CLAWGR-390
 claw_disconnect function CLAWGR-393
 claw_end function CLAWGR-395
 claw_initialization function CLAWGR-396
 claw_openadapter function CLAWGR-397
 claw_query function CLAWGR-400
 claw_send function CLAWGR-403
 clearerr library function CLS-UGR-42
 close library function CLS-UGR-44
 close socket function
 shut down a socket CLAWGR-155
 closedir library function CLS-UGR-46
 closelog function CLS-UGR-48
 cmaccp function CLS-UGR-798
 cmaccp function
 return codes CLS-UGR-798
 cmalloc function CLS-UGR-800
 cmalloc function
 return codes CLS-UGR-800
 cmcfm function CLS-UGR-803
 cmcfm function
 return codes CLS-UGR-803
 cmcfmd function CLS-UGR-805
 cmcfmd function
 return codes CLS-UGR-805
 cmdeal function CLS-UGR-807
 cmdeal function
 return codes CLS-UGR-807
 cmecs function CLS-UGR-810
 cmecs function
 return codes CLS-UGR-810
 cmemn function CLS-UGR-812
 cmemn function
 return codes CLS-UGR-812
 cmep1n function CLS-UGR-814
 cmep1n function
 return codes CLS-UGR-814
 cmes1 function CLS-UGR-816
 cmes1 function
 return codes CLS-UGR-816
 cmflus function CLS-UGR-818
 cmflus function
 return codes CLS-UGR-818
 cminit function CLS-UGR-820
 cminit function
 return codes CLS-UGR-820
 cmptr function CLS-UGR-823
 cmptr function
 return codes CLS-UGR-823
 cmrcv function CLS-UGR-825
 cmrcv function
 return codes CLS-UGR-826
 cmrts function CLS-UGR-829
 cmrts function
 return codes CLS-UGR-829
 cmsdt function CLS-UGR-831
 cmsdt function
 return codes CLS-UGR-831, CLS-UGR-833
 cmsed function CLS-UGR-833
 cmsend function CLS-UGR-835
 cmsend function
 return codes CLS-UGR-835
 cmserr function CLS-UGR-838
 cmserr function
 return codes CLS-UGR-838
 cmsmn function CLS-UGR-842
 cmsmn function
 return codes CLS-UGR-842
 cmspln function CLS-UGR-844
 cmspln function
 return codes CLS-UGR-844
 cmsptr function CLS-UGR-846
 cmsptr function
 return codes CLS-UGR-846
 cmsrc function CLS-UGR-848
 cmsrc function
 return codes CLS-UGR-848
 cmssl function CLS-UGR-850
 cmssl function
 return codes CLS-UGR-850
 cmsst function CLS-UGR-852
 cmsst function
 return codes CLS-UGR-852
 cmstp1n function CLS-UGR-854
 cmstp1n function
 return codes CLS-UGR-854
 cmtrts function CLS-UGR-856
 cmtrts function
 return codes CLS-UGR-856
 connect socket function
 request a connection to a remote host
 CLAWGR-157
 corhc function CLS-UGR-49
 coruc function CLS-UGR-50
 cratc function CLS-UGR-51
 creat library function CLS-UGR-54
 credc function CLS-UGR-57
 creec function CLS-UGR-59
 cremc function CLS-UGR-62
 cretc_level function CLS-UGR-66
 cretc function CLS-UGR-64
 crexc function CLS-UGR-69
 crosc_entrc function CLS-UGR-71
 crusa function CLS-UGR-73
 csonc function CLS-UGR-75
 dbsac function CLS-UGR-78
 dbsdc.h function CLS-UGR-79
 defrc function APP-GDE-233, CLS-UGR-80
 deleteCache function APP-GDE-131, CLS-UGR-81
 deleteCacheEntry function APP-GDE-129,
 CLS-UGR-82
 deqc function CLS-UGR-84
 detach_ext function APP-GDE-278, CLS-UGR-86

detach_id function CLS-UGR-88
 detach function APP-GDE-278, APP-GDE-281, CLS-UGR-85
 delay function APP-GDE-233, CLS-UGR-90
 dllexport library function CLS-UGR-91
 dllload library function CLS-UGR-93
 dllqueryfn library function CLS-UGR-94
 dllqueryvar library function CLS-UGR-96
 dup library function CLS-UGR-97
 dup2 library function CLS-UGR-99
 ecbptr function CLS-UGR-101
 enq function CLS-UGR-102
 entdc macro CLS-UGR-104
 entrc macro CLS-UGR-106
 evinc function CLS-UGR-108
 evnq function CLS-UGR-109
 evntc function CLS-UGR-111
 evnwc function CLS-UGR-113
 exit function CLS-UGR-115
 face_facs function CLS-UGR-120
 FACE function CLS-UGR-117
 FACS function CLS-UGR-117
 fchmod library function CLS-UGR-123
 fchown library function CLS-UGR-125
 fclose library function CLS-UGR-127
 fcntl library function CLS-UGR-129
 FD_CLR library function CLS-UGR-134
 FD_COPY library function CLS-UGR-135
 FD_ISSET library function CLS-UGR-136
 FD_SET library function CLS-UGR-139
 FD_ZERO library function CLS-UGR-140
 fdopen library function CLS-UGR-137
 feof library function CLS-UGR-141
 ferror library function CLS-UGR-143
 fflush library function CLS-UGR-144
 fgetc library function CLS-UGR-146
 fgetpos library function CLS-UGR-148
 fgets library function CLS-UGR-150
 file_record_ext function CLS-UGR-161
 file_record function APP-GDE-260, CLS-UGR-158
 filec_ext function CLS-UGR-154
 filec function APP-GDE-260, CLS-UGR-152
 fileno library function CLS-UGR-156
 filnc_ext function CLS-UGR-167
 filnc function APP-GDE-261, CLS-UGR-165
 filuc_ext function CLS-UGR-172
 filuc function APP-GDE-261, CLS-UGR-170
 find_record_ext function CLS-UGR-181
 find_record function APP-GDE-261, CLS-UGR-178
 findc_ext function CLS-UGR-176
 findc function APP-GDE-261, CLS-UGR-174
 finhc_ext function CLS-UGR-187
 finhc function APP-GDE-261, CLS-UGR-185
 finwc_ext function CLS-UGR-191
 finwc function APP-GDE-261, CLS-UGR-189
 fiwhc_ext function CLS-UGR-195
 fiwhc function APP-GDE-261, CLS-UGR-193
 flipc function CLS-UGR-197
 flushCache function APP-GDE-130, CLS-UGR-198
 fopen library function CLS-UGR-199
 fprintf library function CLS-UGR-201
 fputc library function CLS-UGR-209
 fputs library function CLS-UGR-211
 fread library function CLS-UGR-213
 free function
 manage heap storage MIG-GD1-307
 freopen library function CLS-UGR-215
 fscanf library function CLS-UGR-217
 fseek library function CLS-UGR-226
 fsetpos library function CLS-UGR-228
 fstat library function CLS-UGR-230
 fsync library function CLS-UGR-232
 ftell library function CLS-UGR-234
 ftok function CLS-UGR-235
 ftruncate library function CLS-UGR-237
 fwrite library function CLS-UGR-239
 gdsnc and gdsrc functions APP-GDE-273
 gdsnc function APP-GDE-273, CLS-UGR-241
 gdsrc function APP-GDE-273, CLS-UGR-244
 getc library function CLS-UGR-246
 getcc function APP-GDE-238, CLS-UGR-248
 getchar library function CLS-UGR-246
 getcwd library function CLS-UGR-252
 getegid function CLS-UGR-254
 getenv function CLS-UGR-255
 geteuid function CLS-UGR-256
 getfc function APP-GDE-255, CLS-UGR-258
 getgid function CLS-UGR-260
 getgrgid function CLS-UGR-261
 getgrnam function CLS-UGR-263
 gethostbyaddr socket function
 get host information by address CLAWGR-160
 gethostbyname socket function
 get host information by name CLAWGR-162
 gethostid socket function
 return host identifier CLAWGR-164
 gethostname socket function
 return the host name CLAWGR-166
 getpc function CLS-UGR-265
 getpeername socket function
 return the name of the peer CLAWGR-168
 getpid function APP-GDE-168, APP-GDE-169, CLS-UGR-267
 getppid function APP-GDE-168, APP-GDE-169, CLS-UGR-268
 getpwnam function CLS-UGR-269
 getpwuid function CLS-UGR-271
 gets library function CLS-UGR-273
 getservbyname socket function
 get server port by name CLAWGR-170
 getservbyport socket function
 get server name by port CLAWGR-172
 getsockname socket function
 return the name of the local socket CLAWGR-174
 getsockopt socket function
 return socket options CLAWGR-176
 gettimeofday library function CLS-UGR-275
 getuid function CLS-UGR-276
 glob_keypoint function CLS-UGR-279
 glob_lock function CLS-UGR-280
 glob_modify function CLS-UGR-282
 glob_sync function CLS-UGR-284

glob_unlock function CLS-UGR-286
 glob_update function CLS-UGR-288
 glob function APP-GDE-18, APP-GDE-246, CLS-UGR-277
 global function APP-GDE-246, CLS-UGR-290
 GLOBALSYNC operation APP-GDE-243, APP-GDE-247
 gsysc function CLS-UGR-293
 htonl socket function
 translate a long integer CLAWGR-180
 htons socket functions
 translate a short integer CLAWGR-181
 inet_addr socket function
 construct internet address from character string CLAWGR-182
 inet_ntoa socket function
 return pointer to a string in dotted decimal notation CLAWGR-184
 inqrc function CLS-UGR-295
 ioctl socket function
 perform special operations on socket CLAWGR-185
 IPRSE_bldprstr function CLS-UGR-1466
 IPRSE_parse function CLS-UGR-1456
 keyrc_okey function CLS-UGR-297
 keyrc function CLS-UGR-296
 kill function APP-GDE-169, CLS-UGR-298
 levtest function CLS-UGR-300
 link library function CLS-UGR-302
 listen socket function
 complete binding CLAWGR-189
 lockc function CLS-UGR-305
 lodic_ext function CLS-UGR-308
 lodic function CLS-UGR-306
 longc function CLS-UGR-312
 longjmp library function CLS-UGR-313
 lseek library function CLS-UGR-315
 lstat library function CLS-UGR-317
 mail function CLS-UGR-320
 main function
 argc parameter APP-GDE-134
 argv parameter APP-GDE-134
 coding APP-GDE-133
 malloc function APP-GDE-238
 malloc function
 get contiguous pieces of storage MIG-GD1-307
 manage heap storage MIG-GD1-307
 maskc function CLS-UGR-325
 mkdir library function CLS-UGR-326
 mkfifo function CLS-UGR-328
 mknod library function CLS-UGR-331
 MQBACK function CLS-UGR-333
 MQCLOSE function CLS-UGR-335
 MQCMIT function CLS-UGR-337
 MQCONN function CLS-UGR-339
 MQDISC function CLS-UGR-341
 MQGET function CLS-UGR-343
 MQINQ function CLS-UGR-349
 MQOPEN function CLS-UGR-355
 MQPUT function CLS-UGR-359
 MQPUT1 function CLS-UGR-365
 MQSET function CLS-UGR-372
 newCache function CLS-UGR-376
 ntohs socket function
 translate a long integer CLAWGR-191
 ntohs socket function
 translate a short integer CLAWGR-192
 numbc function CLS-UGR-379
 open library function CLS-UGR-380
 opendir library function CLS-UGR-384
 openlog function CLS-UGR-386
 pausc function CLS-UGR-387
 pause function APP-GDE-169, CLS-UGR-388
 perror library function CLS-UGR-389
 pipe function CLS-UGR-391
 postc function CLS-UGR-395
 printf library function CLS-UGR-201
 progc function CLS-UGR-398
 putc library function CLS-UGR-400
 putchar library function CLS-UGR-400
 puts library function CLS-UGR-402
 raisa function CLS-UGR-404
 raise function APP-GDE-169
 raise library function CLS-UGR-406
 rcunc macro CLS-UGR-408
 read library function CLS-UGR-410
 read socket function
 read data on a socket CLAWGR-193
 readCacheEntry function CLS-UGR-413
 readdir library function CLS-UGR-415
 readlink library function CLS-UGR-417
 realloc function APP-GDE-238
 realloc function
 manage heap storage MIG-GD1-307
 recv socket function
 receive data on a connected socket CLAWGR-196
 recvfrom socket function
 receive data on connected/unconnected socket CLAWGR-199
 recvmsg socket function
 receive messages on a socket CLAWGR-202
 rehka function CLS-UGR-419
 relcc function APP-GDE-238, CLS-UGR-421
 relfc function APP-GDE-256, CLS-UGR-423
 relpc function CLS-UGR-425
 remove library function CLS-UGR-427
 rename library function CLS-UGR-428
 return function APP-GDE-23
 rewind library function CLS-UGR-431
 rewinddir library function CLS-UGR-433
 ridcc function CLS-UGR-435
 rlcha function CLS-UGR-437
 rmdir library function CLS-UGR-439
 routc function APP-GDE-52, CLS-UGR-441
 rsysc function CLS-UGR-443
 rvtcc function CLS-UGR-445
 scanf function APP-GDE-15
 scanf library function CLS-UGR-217, CLS-UGR-447
 selec function CLS-UGR-448
 select function CLS-UGR-450
 select socket function
 monitor read, write, and exception status CLAWGR-205

send socket function
 send data on a connected socket CLAWGR-206

sendmsg socket function
 send message on a socket CLAWGR-210

sendto socket function
 send data on an unconnected socket CLAWGR-212

serrc_op_ext function APP-GDE-234, CLS-UGR-456

serrc_op_slt function CLS-UGR-458

serrc_op function APP-GDE-234, CLS-UGR-454

setbuf library function CLS-UGR-460

setegid function CLS-UGR-462

setenv function CLS-UGR-463, INS-PRM-149

seteuid function CLS-UGR-466

setgid function CLS-UGR-468

setjmp library function CLS-UGR-470

setlocale function APP-GDE-302

setsockopt socket function
 set options associated with a socket CLAWGR-216

setuid function CLS-UGR-472

setvbuf library function CLS-UGR-474

shmat function CLS-UGR-476

shmctl function CLS-UGR-478

shmdt function CLS-UGR-481

shmget function CLS-UGR-483

shutdown socket function
 shut down all or part of a duplex connection
 CLAWGR-220

sigaction function APP-GDE-169, CLS-UGR-486

sigaddset macro CLS-UGR-490

sigdelset macro CLS-UGR-491

sigemptyset macro CLS-UGR-492

sigfillset macro CLS-UGR-493

sigismember macro CLS-UGR-494

signal function APP-GDE-169

signal library function CLS-UGR-495

sigpending function APP-GDE-169, CLS-UGR-498

sigprocmask function APP-GDE-169, CLS-UGR-499

sigsuspend function APP-GDE-169, CLS-UGR-502

sipcc function CLS-UGR-504

sleep function APP-GDE-169, APP-GDE-170,
 CLS-UGR-507

snpc function APP-GDE-234, CLS-UGR-508

sock_errno socket function
 return the error code set by a socket call
 CLAWGR-222

socket.h header file CLAWGR-363

socket socket function
 create an endpoint for communication CLAWGR-223

sonic function CLS-UGR-511

sprintf library function CLS-UGR-201

sscanf library function CLS-UGR-217

SSL_accept SSL function
 accept an SSL session connection request
 CLAWGR-274

SSL_aor SSL function
 allow the issuing ECB to exit and a specific program
 to be activated in a new ECB CLAWGR-275

SSL_check_private_key SSL function
 verify private key-public key agreement
 CLAWGR-277

SSL_connect SSL function
 start an SSL session CLAWGR-279

SSL_CTX_check_private_key SSL function
 verify private key- public key agreement in the
 certificate CLAWGR-280

SSL_CTX_free SSL function
 return a context (CTX) structure to the system
 CLAWGR-281

SSL_CTX_load_and_set_client_CA_list SSL function
 load certificates from a file and places the issuer
 name of each certificate in a CTX structure
 CLAWGR-282

SSL_CTX_load_verify_locations SSL function
 load the certificate authorities (CAs) CLAWGR-283

SSL_CTX_new_shared SSL function
 create a new CTX structure for use by shared SSL
 sessions CLAWGR-287

SSL_CTX_new SSL function
 create a new context (CTX) structure CLAWGR-285

SSL_CTX_set_cipher_list SSL function
 set the cipher list for use by SSL sessions
 CLAWGR-289

SSL_CTX_set_client_CA_list SSL function
 identify set of CAs sent to remote client
 CLAWGR-292

SSL_CTX_set_default_passwd_cb_userdata SSL function
 identify the password to access data in a private key
 in PEM format CLAWGR-293

SSL_CTX_set_verify SSL function
 indicate whether to verify remote peers starting SSL
 sessions CLAWGR-294

SSL_CTX_use_certificate_chain_file SSL function
 load the chain of certificates for an SSL session to
 use in a specific context CLAWGR-296

SSL_CTX_use_certificate_file SSL function
 load the certificate for an SSL session to use in a
 specific context CLAWGR-298

SSL_CTX_use_PrivateKey_file SSL function
 load the private key for an SSL session to use in a
 specific context CLAWGR-300

SSL_CTX_use_RSAPrivateKey_file SSL function
 load the RSA private key for an SSL session to use
 in a specific context CLAWGR-302

SSL_free SSL function
 returns to the system the SSL structure associated
 with an SSL session CLAWGR-304

SSL_get_cipher SSL function
 returns the cipher name associated with a specific
 SSL session CLAWGR-305

SSL_get_error SSL function
 return error information about an SSL API
 CLAWGR-307

SSL_get_peer_certificate SSL function
 return the peer certificate received from an SSL
 session CLAWGR-309

SSL_get_session SSL function
 return a copy of the SSL session information for a
 specific SSL structure CLAWGR-310

SSL_get_verify_result SSL function
 return the result of the remote peer certificate
 validation CLAWGR-311

SSL_get_version SSL function
 returns the protocol version of the current SSL
 connection CLAWGR-313

SSL_library_init SSL function
 registers the available ciphers and message digest
 CLAWGR-314

SSL_load_and_set_client_CA_list SSL function
 load certificates from a file and puts the name of
 each certificate in the SSL structure CLAWGR-315

SSL_load_client_CA_file SSL function
 load certificates from a file CLAWGR-316

SSL_new SSL function
 create a new SSL structure for use by an SSL
 session CLAWGR-317

SSL_pending SSL function
 return data in the current SSL data record that is
 available for reading on an SSL session
 CLAWGR-318

SSL_read SSL function
 read application data from an SSL session
 CLAWGR-319

SSL_renegotiate SSL function
 create a new set of cipher keys for an existing SSL
 session CLAWGR-320

SSL_set_cipher_list SSL function
 set the ciphers for use by an SSL session
 CLAWGR-321

SSL_set_client_CA_list SSL function
 identify a CA list for use with client certificate
 requests CLAWGR-324

SSL_set_fd SSL function
 assign a socket to an SSL structure CLAWGR-325

SSL_set_session SSL function
 set up SSL session information when reusing an SSL
 session CLAWGR-326

SSL_set_verify SSL function
 indicate whether to verify the remote client identity
 when an SSL session starts CLAWGR-327

SSL_shutdown SSL function
 shut down data flow for an SSL session
 CLAWGR-329

SSL_use_certificate_file SSL function
 load the certificate for use with an SSL session
 CLAWGR-330

SSL_use_PrivateKey_file SSL function
 load the private key for use with an SSL session
 CLAWGR-332

SSL_use_RSAPrivateKey_file SSL function
 load the RSA private key for use with an SSL
 session CLAWGR-333

SSL_write SSL function
 write application data across an SSL session
 CLAWGR-334

SSLv2_client_method SSL function
 indicate that an application is a client and supports
 SSL version 2 CLAWGR-335

SSLv2_server_method SSL function
 indicate that an application is a server and supports
 SSL version 2 CLAWGR-336

SSLv23_client_method SSL function
 indicate that an application is a client and supports
 SSL versions 2 and 3 and TLS version 1
 CLAWGR-337

SSLv23_server_method SSL function
 indicate that an application is a server and supports
 SSL versions 2 and 3 and TLS version 1
 CLAWGR-338

SSLv3_client_method SSL function
 indicate that an application is a client and supports
 SSL version 3 CLAWGR-339

SSLv3_server_method SSL function
 indicate that an application is a server and supports
 SSL version 3 CLAWGR-340

stat library function CLS-UGR-513

strerror library function CLS-UGR-517

swisc_create function APP-GDE-173, CLS-UGR-518

symlink library function CLS-UGR-521

systc function CLS-UGR-526

system function APP-GDE-167

system library function CLS-UGR-527

tancc function CLS-UGR-530

tape_access function CLS-UGR-532

tape_close function CLS-UGR-534

tape_cntl function CLS-UGR-535

tape_open function CLS-UGR-537

tape_read function CLS-UGR-538

tape_write function CLS-UGR-540

tasnc function APP-GDE-270, APP-GDE-271,
 CLS-UGR-541

tbspc function APP-GDE-271, CLS-UGR-542

tc1sc function APP-GDE-269, APP-GDE-271,
 CLS-UGR-544

tdspc_q function APP-GDE-272, CLS-UGR-546

tdspc_v function APP-GDE-272, CLS-UGR-547

tdspc function APP-GDE-272, CLS-UGR-545

tdtac function CLS-UGR-549

TLSv1_client_method SSL function
 indicate that an application is a client and supports
 TLS version 1 CLAWGR-341

TLSv1_server_method
 indicate that an application is a server and supports
 TLS version 1 CLAWGR-342

tmpfile library function CLS-UGR-551

tmpnam library function CLS-UGR-552

tms1c function CLS-UGR-553

T02_add function CLS-UGR-883

T02_addAllFrom function CLS-UGR-886

T02_addAtCursor function CLS-UGR-1115

T02_addAtIndex function CLS-UGR-888

T02_addKeyPath function CLS-UGR-890

T02_addRecoupIndexEntry function CLS-UGR-893

T02_allElementsDo function APP-GDE-114,
 CLS-UGR-1117

T02_asOrderedCollection function CLS-UGR-896

T02_asSequenceCollection function CLS-UGR-897

T02_associateRecoupIndexWithPID function
 CLS-UGR-899

T02_asSortedCollection function CLS-UGR-901

T02_at function CLS-UGR-903

T02_atBrowseKey function CLS-UGR-1224

T02_atBrowseKeyPut function CLS-UGR-1226
T02_atBrowseNewKeyPut function CLS-UGR-1228
T02_atCursor function CLS-UGR-1119
T02_atCursorPut function CLS-UGR-1121
T02_atCursorWithBuffer function CLS-UGR-1123
T02_atDSdictKey function CLS-UGR-1188
T02_atDSdictKeyPut function CLS-UGR-1190
T02_atDSdictNewKeyPut function CLS-UGR-1192
T02_atDSsystemKey function CLS-UGR-1194
T02_atDSsystemKeyPut function CLS-UGR-1196
T02_atDSsystemNewKeyPut function CLS-UGR-1198
T02_atEnd function CLS-UGR-1125
T02_atKey function CLS-UGR-905
T02_atKeyPut function CLS-UGR-907
T02_atKeyWithBuffer function CLS-UGR-909
T02_atLast function CLS-UGR-1127
T02_atNewKeyPut function CLS-UGR-911
T02_atPut function CLS-UGR-913
T02_atRBA function CLS-UGR-915
T02_atRBAPut function CLS-UGR-917
T02_atRBAWithBuffer function CLS-UGR-920
T02_atTPFKey function CLS-UGR-1200
T02_atTPFKeyPut function CLS-UGR-1202
T02_atTPFNewKeyPut function CLS-UGR-1204
T02_atTPFsystemKey function CLS-UGR-1206
T02_atTPFsystemKeyPut function CLS-UGR-1208
T02_atTPFsystemNewKeyPut function CLS-UGR-1210
T02_atWithBuffer function CLS-UGR-922
T02_capture function CLS-UGR-924
T02_changeDD function CLS-UGR-1230
T02_changeDS function CLS-UGR-1232
T02_class function CLS-UGR-1346
T02_convertBinPIDtoEBCDIC function CLS-UGR-1348
T02_convertClassName function CLS-UGR-1234
T02_convertEBCDICtoBinPID function CLS-UGR-1350
T02_convertMethodName function CLS-UGR-1236
T02_copyCollection function CLS-UGR-927
T02_copyCollectionTemp function CLS-UGR-929
T02_copyCollectionWithOptions function
CLS-UGR-931
T02_createArray function CLS-UGR-933
T02_createArrayTemp function CLS-UGR-935
T02_createArrayWithOptions function CLS-UGR-937
T02_createBag function CLS-UGR-939
T02_createBagTemp function CLS-UGR-941
T02_createBagWithOptions function CLS-UGR-943
T02_createBL0B function CLS-UGR-945
T02_createBL0BTemp function CLS-UGR-947
T02_createBL0BWithOptions function CLS-UGR-949
T02_createCursor function CLS-UGR-1129
T02_createDD function CLS-UGR-1238
T02_createDictionary function CLS-UGR-951
T02_createDS function CLS-UGR-1240
T02_createDSwithOptions function CLS-UGR-1242
T02_createEnv function CLS-UGR-874
T02_createKeyBag function CLS-UGR-954
T02_createKeyBagTemp function CLS-UGR-956
T02_createKeyBagWithOptions function CLS-UGR-958
T02_createKeyedLog function CLS-UGR-960
T02_createKeyedLogTemp function CLS-UGR-962
T02_createKeyedLogWithOptions function
CLS-UGR-964
T02_createKeySet function CLS-UGR-966
T02_createKeySetTemp function CLS-UGR-968
T02_createKeySetWithOptions function CLS-UGR-970
T02_createKeySortedBag function CLS-UGR-972
T02_createKeySortedBagTemp function CLS-UGR-974
T02_createKeySortedBagWithOptions function
CLS-UGR-976
T02_createKeySortedSet function CLS-UGR-978
T02_createKeySortedSetTemp function CLS-UGR-980
T02_createKeySortedSetWithOptions function
CLS-UGR-982
T02_createLog function CLS-UGR-984
T02_createLogTemp function CLS-UGR-986
T02_createLogWithOptions function CLS-UGR-988
T02_createOptionList function CLS-UGR-990
T02_createOrder function CLS-UGR-995
T02_createOrderTemp function CLS-UGR-996
T02_createOrderWithOptions function CLS-UGR-997
T02_createPIDinventoryKey function CLS-UGR-1244
T02_createReadWriteCursor function CLS-UGR-1131
T02_createRecoupIndex function CLS-UGR-998
T02_createSequence function CLS-UGR-1000
T02_createSequenceTemp function CLS-UGR-1002
T02_createSequenceWithOptions function
CLS-UGR-1004
T02_createSet function CLS-UGR-1006
T02_createSetTemp function CLS-UGR-1008
T02_createSetWithOptions function CLS-UGR-1010
T02_createSort function CLS-UGR-1012
T02_createSortedBag function CLS-UGR-1013
T02_createSortedBagTemp function CLS-UGR-1015
T02_createSortedBagWithOptions function
CLS-UGR-1017
T02_createSortedSet function CLS-UGR-1019
T02_createSortedSetTemp function CLS-UGR-1021
T02_createSortedSetWithOptions function
CLS-UGR-1023
T02_createSortTemp function CLS-UGR-1026
T02_createSortWithOptions function CLS-UGR-1027
T02_cursorMinus function CLS-UGR-1133
T02_cursorPlus function CLS-UGR-1135
T02_defineBrowseNameForPID function CLS-UGR-1246
T02_definePropertyForPID function CLS-UGR-1028
T02_definePropertyWithModeForPID function
CLS-UGR-1031
T02_deleteAllPropertiesFromPID function
CLS-UGR-1034
T02_deleteBrowseName function CLS-UGR-1248
T02_deleteCollection function CLS-UGR-1036
T02_deleteCursor function CLS-UGR-1137
T02_deleteDD function CLS-UGR-1250
T02_deleteDS function CLS-UGR-1252
T02_deleteEnv function CLS-UGR-876
T02_deletePID function CLS-UGR-1352
T02_deletePropertyFromPID function CLS-UGR-1038
T02_deleteRecoupIndex function CLS-UGR-1040
T02_deleteRecoupIndexEntry function CLS-UGR-1041
T02_first function CLS-UGR-1139

T02_getAllPropertyNamesFromPID function
CLS-UGR-1043
T02_getBLOB function CLS-UGR-1045
T02_getBLOBWithBuffer function CLS-UGR-1047
T02_getBrowseDictPID function CLS-UGR-1254
T02_getClassAttributes function CLS-UGR-1256
T02_getClassDocumentation function CLS-UGR-1258
T02_getClassInfo function CLS-UGR-1260
T02_getClassNames function CLS-UGR-1262
T02_getClassTree function CLS-UGR-1264
T02_getCollectionAccessMode function CLS-UGR-1049
T02_getCollectionAttributes function CLS-UGR-1266
T02_getCollectionKeys function CLS-UGR-1051
T02_getCollectionName function CLS-UGR-1268
T02_getCollectionParts function CLS-UGR-1270
T02_getCollectionType function CLS-UGR-1053
T02_getCreateTime function CLS-UGR-1272
T02_getCurrentKey function CLS-UGR-1141
T02_getCurrentKeyWithBuffer function CLS-UGR-1143
T02_getDDAttributes function CLS-UGR-1274
T02_getDirectoryForRRN function CLS-UGR-1276
T02_getDRprotect function CLS-UGR-1055
T02_getDSAttributes function CLS-UGR-1278
T02_getDSdictPID function CLS-UGR-1212
T02_getDSnameForPID function CLS-UGR-1280
T02_getErrorCode function CLS-UGR-877
T02_getErrorText function CLS-UGR-879
T02_getKeyPathAttributes function CLS-UGR-1281
T02_getListDDnames function CLS-UGR-1283
T02_getListDScollections function CLS-UGR-1285
T02_getListDSnames function CLS-UGR-1287
T02_getListUsers function CLS-UGR-1289
T02_getMaxDataLength function CLS-UGR-1057
T02_getMaxKeyLength function CLS-UGR-1058
T02_getMethodDocumentation function CLS-UGR-1291
T02_getMethodNames function CLS-UGR-1293
T02_getNumberOfRecords function CLS-UGR-1295
T02_getPathInfoFor function CLS-UGR-1296
T02_getPIDforBrowseName function CLS-UGR-1299
T02_getPIDinventoryEntry function CLS-UGR-1301
T02_getPIDinventoryPID function CLS-UGR-1303
T02_getPropertyValueFromPID function CLS-UGR-1060
T02_getRecordAttributes function CLS-UGR-1305
T02_getRecoupIndex function CLS-UGR-1307
T02_getRecoupIndexForPID function CLS-UGR-1310
T02_getSortFieldValues function CLS-UGR-1062
T02_getTPFDictPID function CLS-UGR-1214
T02_getUserAttributes function CLS-UGR-1312
T02_includes function CLS-UGR-1064
T02_index function CLS-UGR-1145
T02_isCollection function CLS-UGR-1066
T02_isDDdefined function CLS-UGR-1314
T02_isEmpty function CLS-UGR-1147
T02_isExtended function CLS-UGR-1316
T02_isPropertyDefinedForPID function CLS-UGR-1068
T02_isTemp function CLS-UGR-1070
T02_key function CLS-UGR-1149
T02_keyWithBuffer function CLS-UGR-1151
T02_last function CLS-UGR-1153
T02_locate function CLS-UGR-1155
T02_makeEmpty function CLS-UGR-1072
T02_maxEntry function CLS-UGR-1074
T02_migrateCollection function CLS-UGR-1318
T02_migrateDS function CLS-UGR-1320
T02_more function CLS-UGR-1157
T02_next function CLS-UGR-1159
T02_nextPut function CLS-UGR-1161
T02_nextRBAfor function CLS-UGR-1163
T02_nextWithBuffer function CLS-UGR-1165
T02_peek function CLS-UGR-1168
T02_peekWithBuffer function CLS-UGR-1170
T02_previous function CLS-UGR-1172
T02_previousWithBuffer function CLS-UGR-1174
T02_readOnly function CLS-UGR-1076
T02_reclaimPID function CLS-UGR-1322
T02_reconstructCollection function CLS-UGR-1323
T02_recoupCollection function CLS-UGR-1325
T02_recoupDS function CLS-UGR-1327
T02_recoupPT function CLS-UGR-1329
T02_recreatedS function CLS-UGR-1330
T02_remove function CLS-UGR-1176
T02_removeBrowseKey function CLS-UGR-1332
T02_removeDSdictKey function CLS-UGR-1215
T02_removeDSsystemKey function CLS-UGR-1217
T02_removeIndex function CLS-UGR-1078
T02_removeKey function CLS-UGR-1080
T02_removeKeyPath function CLS-UGR-1082
T02_removeRBA function CLS-UGR-1084
T02_removeRecoupIndexFromPID function
CLS-UGR-1086
T02_removeTPFKey function CLS-UGR-1219
T02_removeTPFsystemKey function CLS-UGR-1221
T02_removeValue function CLS-UGR-1088
T02_removeValueAll function CLS-UGR-1090
T02_replaceBLOB function CLS-UGR-1092
T02_reset function CLS-UGR-1178
T02_restart function CLS-UGR-1334
T02_restore function CLS-UGR-1094
T02_restoreAsTemp function CLS-UGR-1096
T02_restoreWithOptions function CLS-UGR-1098
T02_setClass function CLS-UGR-1354
T02_setCollectionAccessMode function CLS-UGR-1101
T02_setDRprotect function CLS-UGR-1103
T02_setGetTextDump function CLS-UGR-1335
T02_setKeyPath function CLS-UGR-1180
T02_setMethodTrace function CLS-UGR-1337
T02_setPositionIndex function CLS-UGR-1182
T02_setPositionValue function CLS-UGR-1184
T02_setReadOnly function CLS-UGR-1105
T02_setSize function CLS-UGR-1107
T02_size function CLS-UGR-1109
T02_taskDispatch function CLS-UGR-1339
T02_validateCollection function CLS-UGR-1340
T02_validateKeyPath function CLS-UGR-1342
T02_writeNewBLOB function CLS-UGR-1111
topnc function APP-GDE-269, APP-GDE-272,
CLS-UGR-556
tourc function APP-GDE-268, CLS-UGR-557
toutc function APP-GDE-267, CLS-UGR-558
tpcnc function CLS-UGR-560
tpf_cfconc function CLS-UGR-564
tpf_cfdisc function CLS-UGR-570

tpf_cresc function APP-GDE-167, CLS-UGR-572
 tpf_decb_create function CLS-UGR-576
 tpf_decb_locate function CLS-UGR-578
 tpf_decb_release function CLS-UGR-580
 tpf_decb_swapblk function CLS-UGR-582
 tpf_decb_validate function CLS-UGR-584
 tpf_d1ckc function CLS-UGR-585
 tpf_esfac library function CLS-UGR-586
 tpf_fa4x4c function CLS-UGR-592
 tpf_fac8c function CLS-UGR-587
 tpf_faczc function CLS-UGR-589
 tpf_fork function APP-GDE-167, APP-GDE-168,
 APP-GDE-169, CLS-UGR-594
 tpf_gen1c function CLS-UGR-599
 tpf_gsvac function CLS-UGR-602
 tpf_help function CLS-UGR-603
 tpf_is_RPCServer_auto_restarted library function
 CLS-UGR-607
 tpf_itrpc function CLS-UGR-608
 tpf_lemic function CLS-UGR-612
 tpf_movec_EVM library function CLS-UGR-618
 tpf_movec library function CLS-UGR-616
 tpf_msg function CLS-UGR-619
 tpf_process_signals function APP-GDE-169,
 APP-GDE-170, CLS-UGR-622
 tpf_rcrfc function CLS-UGR-624
 TPF_regs
 using APP-GDE-161
 tpf_RPC_options library function CLS-UGR-626
 tpf_sawnc function CLS-UGR-627
 tpf_select_bsd function CLS-UGR-629
 tpf_snmp_BER_encode function CLS-UGR-632
 tpf_STCK function CLS-UGR-634
 tpf_tcpip_message_cnt function CLS-UGR-635
 tpf_tm_getToken function CLS-UGR-636
 tpf_vipac C function use for moving a VIPA
 CLAWGR-69
 tpf1ink.h, updating APP-GDE-339, APP-GDE-340
 TPFxd_archiveEnd function CLS-UGR-1360
 TPFxd_archiveStart function CLS-UGR-1361
 TPFxd_close function CLS-UGR-1363
 TPFxd_getPosition function CLS-UGR-1365
 TPFxd_getPrevPosition function CLS-UGR-1367
 TPFxd_getVOLSER function CLS-UGR-1369
 TPFxd_getVOLSERlist function CLS-UGR-1371
 TPFxd_nextVolume function CLS-UGR-1372
 TPFxd_open function CLS-UGR-1374
 TPFxd_read function CLS-UGR-1376
 TPFxd_readBlock function CLS-UGR-1378
 TPFxd_setPosition function CLS-UGR-1380
 TPFxd_sync function CLS-UGR-1382
 TPFxd_write function CLS-UGR-1384
 TPFxd_writeBlock function CLS-UGR-1386
 tppc_activate_on_confirmation function
 CLS-UGR-737
 tppc_activate_on_confirmation function
 return codes CLS-UGR-738
 tppc_activate_on_receipt function CLS-UGR-741
 tppc_activate_on_receipt function
 return codes CLS-UGR-741
 tppc_allocate function CLS-UGR-745
 tppc_allocate function
 return codes CLS-UGR-747
 tppc_confirm function CLS-UGR-750
 tppc_confirm function
 return codes CLS-UGR-750
 tppc_confirmed function CLS-UGR-753
 tppc_confirmed function
 return codes CLS-UGR-753
 tppc_deallocate function CLS-UGR-755
 tppc_deallocate function
 return codes CLS-UGR-756
 tppc_flush function CLS-UGR-759
 tppc_flush function
 return codes CLS-UGR-759
 tppc_get_attributes function CLS-UGR-761
 tppc_get_attributes function
 return codes CLS-UGR-762
 tppc_get_type function CLS-UGR-763
 tppc_get_type function
 return codes CLS-UGR-763
 tppc_post_on_receipt function CLS-UGR-765
 tppc_post_on_receipt function
 return codes CLS-UGR-765
 tppc_prepare_to_receive function CLS-UGR-768
 tppc_prepare_to_receive function
 return codes CLS-UGR-768
 tppc_receive function CLS-UGR-771
 tppc_receive function
 return codes CLS-UGR-773
 tppc_request_to_send function CLS-UGR-777
 tppc_request_to_send function
 return codes CLS-UGR-777
 tppc_send_data function CLS-UGR-779
 tppc_send_data function
 return codes CLS-UGR-780
 tppc_send_error function CLS-UGR-782
 tppc_send_error function
 return codes CLS-UGR-783
 tppc_test function CLS-UGR-786
 tppc_test function
 return codes CLS-UGR-786
 tppc_wait function CLS-UGR-789
 tppc_wait function
 return codes CLS-UGR-789
 tprdc function APP-GDE-270, APP-GDE-272,
 CLS-UGR-641
 trewc function APP-GDE-272, CLS-UGR-643
 trsvc function APP-GDE-270, APP-GDE-272,
 CLS-UGR-644
 tsync function APP-GDE-270, APP-GDE-272,
 CLS-UGR-645
 twrtc function APP-GDE-270, APP-GDE-272,
 CLS-UGR-646
 tx_begin function CLS-UGR-647
 tx_commit function CLS-UGR-649
 tx_open function CLS-UGR-651
 tx_resume_tpf function CLS-UGR-652
 tx_rollback function CLS-UGR-654
 tx_suspend_tpf function CLS-UGR-655
 uatbc function CLS-UGR-657
 umask library function CLS-UGR-659

- unfrc_ext function CLS-UGR-662
- unfrc function APP-GDE-262, CLS-UGR-661
- ungetc library function CLS-UGR-664
- unhka function CLS-UGR-666
- unlink library function CLS-UGR-668
- unlkc function CLS-UGR-670
- unsetenv function CLS-UGR-671
- updateCacheEntry function APP-GDE-125, APP-GDE-127, CLS-UGR-673
- utime library function CLS-UGR-676
- vfprintf library function CLS-UGR-678
- vprintf library function CLS-UGR-680
- vsprintf library function CLS-UGR-682
- wait function APP-GDE-169, APP-GDE-170, CLS-UGR-684
- waitc function APP-GDE-8, APP-GDE-233, APP-GDE-264, APP-GDE-270, CLS-UGR-686
- waitc function
 - use with the file reference functions APP-GDE-261
- waitpid function APP-GDE-169, APP-GDE-170, CLS-UGR-687
- WEXITSTATUS macro CLS-UGR-690
- wgtac_ext function CLS-UGR-692
- wgtac function CLS-UGR-691
- WIFEXITED macro CLS-UGR-694
- WIFSIGNALED macro CLS-UGR-695
- write library function CLS-UGR-696
- write socket function
 - write data on a connected socket CLAWGR-226
- writew socket function
 - write data on a connected socket CLAWGR-229
- WTERMSIG macro CLS-UGR-699
- wtopc_insert_header function CLS-UGR-704
- wtopc_routing_list function CLS-UGR-706
- wtopc_text function CLS-UGR-707
- wtopc function CLS-UGR-700
- xa_commit function CLS-UGR-708
- xa_end function CLS-UGR-710
- xa_open function CLS-UGR-712
- xa_prepare function CLS-UGR-714
- xa_recover function CLS-UGR-716
- xa_rollback function CLS-UGR-718
- xa_start function CLS-UGR-720

Numerics

- 1052 state MSP-PRM-5
- 1052 state
 - cycle all processors MIG-GD1-251
 - cycling above
 - canceling OPR-GDE-94
 - continuing OPR-GDE-94
 - cycling to OPR-GDE-239
 - description of OPR-GDE-8
 - ZATME command OPR-GDE-94
 - ZCYCL command OPR-GDE-239
- 1403 printer
 - unit record status table
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set
 - CUAH program OPR-GDE-103

- 1403 printer *(continued)*
 - universal character set *(continued)*
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
- 16-MB constraint relief GIM-23
- 16-MB constraint relief
 - 31-bit addressing MIG-GD1-213
 - changes MIG-GD1-212
 - data integrity MIG-GD1-213
 - description MIG-GD1-22
 - heap storage MIG-GD1-13, MIG-GD2-13
 - main storage increases MIG-GD1-213
 - transaction protection MIG-GD1-213
 - use by application programs MIG-GD1-213
 - working storage MIG-GD1-22
- 16-way tightly coupled multiprocessor
 - API changes MIG-GD2-583
 - architecture MIG-GD2-574
 - C/C++ language MIG-GD2-575
 - CINFC tags MIG-GD2-576
 - commands MIG-GD2-580
 - CONKC tags MIG-GD2-576
 - copy members MIG-GD2-576
 - database changes MIG-GD2-583
 - feature changes MIG-GD2-583
 - fixed file records MIG-GD2-576
 - functional changes MIG-GD2-580
 - functional overview MIG-GD2-574
 - hardware MIG-GD2-574
 - host system changes MIG-GD2-583
 - installation validation MIG-GD2-583
 - interfaces MIG-GD2-575
 - loading process MIG-GD2-582
 - macros MIG-GD2-576
 - migration scenarios MIG-GD2-583
 - offline messages MIG-GD2-581
 - online messages MIG-GD2-581
 - online system load MIG-GD2-582
 - operating environment requirements MIG-GD2-574
 - operational changes MIG-GD2-580
 - overview MIG-GD2-33, MIG-GD2-574
 - performance changes MIG-GD2-582
 - planning information MIG-GD2-574
 - prerequisite APARs MIG-GD2-574
 - publication changes MIG-GD2-582
 - segments MIG-GD2-578
 - SIP changes MIG-GD2-582
 - storage changes MIG-GD2-582
 - storage considerations MIG-GD2-582
 - system equates MIG-GD2-580
 - system errors MIG-GD2-581
 - system generation changes MIG-GD2-582
 - tuning changes MIG-GD2-582
 - user exits MIG-GD2-580
- 24-bit mode AR-USG-30, INS-PRM-401, INS-PRM-403

- 2505R card reader
 - unit record status table
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
- 3-byte resource identifier (RID)
 - overview MIG-GD1-22
- 3088 channel-to-channel link station AR-USG-19
- 31-bit addressing
 - 16-MB constraint relief MIG-GD1-213
 - application program considerations MIG-GD1-314
 - changes MIG-GD1-213
- 31-bit mode AR-USG-30, INS-PRM-401, INS-PRM-403
- 3172 Model 3 Interconnect Controller CLAWGR-30
- 3174 APPN SNA-PRM-2, SNA-PRM-4, SNA-PRM-16, SNA-PRM-244
- 3174 devices
 - channel-attached
 - maximum number OPR-GDE-977
 - LEN sessions
 - maximum number OPR-GDE-979
 - ZNKEY command OPR-GDE-977, OPR-GDE-979
- 32-way loosely coupled migration
 - ZMIGR command OPR-GDE-780
- 32-way loosely coupled pool support DBS-REF-25
- 32-way loosely coupled pool support
 - API changes MIG-GD2-1024
 - architecture MIG-GD2-1010
 - C/C++ language MIG-GD2-1014
 - CINFC tags MIG-GD2-1015
 - commands MIG-GD2-1022
 - CONKC tags MIG-GD2-1015
 - copy members MIG-GD2-1015
 - database changes MIG-GD2-1024
 - feature changes MIG-GD2-1024
 - fixed file records MIG-GD2-1015
 - functional changes MIG-GD2-1022
 - functional overview MIG-GD2-1006
 - host system changes MIG-GD2-1024
 - installation validation MIG-GD2-1025
 - interfaces MIG-GD2-1014
 - loading process MIG-GD2-1024
 - macros MIG-GD2-1016
 - migration scenarios MIG-GD2-1025
 - offline messages MIG-GD2-1022
 - online messages MIG-GD2-1022
 - online system load MIG-GD2-1024
 - operating environment requirements MIG-GD2-1014
 - operational changes MIG-GD2-1022
 - overview MIG-GD2-1006
 - performance changes MIG-GD2-1024
 - planning information MIG-GD2-1014
 - prerequisite APARs MIG-GD2-1006
 - publication changes MIG-GD2-1024
 - segments MIG-GD2-1018
 - SIP changes MIG-GD2-1024
 - storage changes MIG-GD2-1024
 - storage considerations MIG-GD2-1024
- 32-way loosely coupled pool support *(continued)*
 - system equates MIG-GD2-1021
 - system errors MIG-GD2-1022
 - system generation changes MIG-GD2-1024
 - tuning changes MIG-GD2-1024
 - user exits MIG-GD2-1021
 - ZPMIG DBS-REF-31
- 32-way loosely coupled processor support
 - API changes MIG-GD2-1209
 - architecture MIG-GD2-1174
 - C/C++ language MIG-GD2-1179
 - CINFC tags MIG-GD2-1186
 - commands MIG-GD2-1203
 - CONKC tags MIG-GD2-1186
 - copy members MIG-GD2-1186
 - database changes MIG-GD2-1209
 - feature changes MIG-GD2-1209
 - fixed file records MIG-GD2-1187
 - functional changes MIG-GD2-1203
 - functional overview MIG-GD2-1168
 - host system changes MIG-GD2-1209
 - installation validation MIG-GD2-1209
 - interfaces MIG-GD2-1179
 - loading process MIG-GD2-1208
 - macros MIG-GD2-1188
 - migration scenarios MIG-GD2-1209
 - offline messages MIG-GD2-1204
 - online messages MIG-GD2-1204
 - online system load MIG-GD2-1208
 - operating environment requirements MIG-GD2-1179
 - operational changes MIG-GD2-1203
 - overview MIG-GD2-1168
 - performance changes MIG-GD2-1208
 - planning information MIG-GD2-1179
 - prerequisite APARs MIG-GD2-1168
 - publication changes MIG-GD2-1208
 - segments MIG-GD2-1193
 - SIP changes MIG-GD2-1208
 - storage changes MIG-GD2-1208
 - storage considerations MIG-GD2-1208
 - system equates MIG-GD2-1202
 - system errors MIG-GD2-1204
 - system generation changes MIG-GD2-1208
 - tuning changes MIG-GD2-1208
 - user exits MIG-GD2-1203
- 3211 form control buffer
 - CUAG program OPR-GDE-100
 - defining OPR-GDE-100
 - loading OPR-GDE-100
 - ZAURS FCBL command OPR-GDE-100
- 3211 printer
 - form control buffer
 - CUAG program OPR-GDE-100
 - defining OPR-GDE-100
 - loading OPR-GDE-100
 - unit record status table
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set
 - CUAI program OPR-GDE-103

- 3211 printer *(continued)*
 - universal character set *(continued)*
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS FCBL command OPR-GDE-100
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
- 3270 Application Considerations SNA-PRM-26
- 3270 Application Considerations
 - copy (SNA command) SNA-PRM-26
- 3270 line support
 - alter CCP restart/shutdown polling controls MIG-GD1-72
 - local lines
 - display status MIG-GD1-72
 - start MIG-GD1-74
 - stop MIG-GD1-74
 - use MIG-GD1-259
- 3270 local CON-STR-169, CON-STR-176, CON-STR-186
- 3270 local lines
 - changing CCP polling controls for OPR-GDE-676
 - displaying status OPR-GDE-687
 - ZLACL command OPR-GDE-676
 - ZLDLS command OPR-GDE-687
- 3270 local support SYS-GEN-123
- 3270 mapping CON-STR-180
- 3270 SDLC hardcopy resource
 - alternate node
 - rerouting to OPR-GDE-920
 - prime node
 - reactivating OPR-GDE-916
 - ZNACT command OPR-GDE-916
 - ZNALT command OPR-GDE-920
- 3270 simulation CON-STR-180
- 3270 terminals
 - support of OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- 3270 welcome screen SNA-PRM-216
- 3505 card reader
 - unit record status table
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
- 3590 support
 - API changes MIG-GD2-292
 - architecture MIG-GD2-284
 - C/C++ language MIG-GD2-285
 - CINFC tags MIG-GD2-285
 - commands MIG-GD2-288
 - CONKC tags MIG-GD2-285
 - copy members MIG-GD2-285
 - database changes MIG-GD2-293
 - feature changes MIG-GD2-293
 - fixed file records MIG-GD2-285
 - functional changes MIG-GD2-288
 - 3590 support *(continued)*
 - functional overview MIG-GD2-284
 - hardware MIG-GD2-284
 - host system changes MIG-GD2-292
 - installation validation MIG-GD2-293
 - interfaces MIG-GD2-285
 - loading process MIG-GD2-292
 - macros MIG-GD2-285
 - migration scenarios MIG-GD2-293
 - offline messages MIG-GD2-289
 - online messages MIG-GD2-289
 - online system load MIG-GD2-292
 - operating environment requirements MIG-GD2-284
 - operational changes MIG-GD2-288
 - overview MIG-GD2-34, MIG-GD2-284
 - performance changes MIG-GD2-292
 - planning information MIG-GD2-284
 - prerequisite APARs MIG-GD2-284
 - publication changes MIG-GD2-292
 - segments MIG-GD2-287
 - SIP changes MIG-GD2-292
 - software (programming requirements) MIG-GD2-284
 - storage changes MIG-GD2-292
 - storage considerations MIG-GD2-292
 - system equates MIG-GD2-288
 - system errors MIG-GD2-289
 - system generation changes MIG-GD2-292
 - tuning changes MIG-GD2-292
 - user exits MIG-GD2-288
- 3600 Application Considerations
 - Data Transmission SNA-PRM-25
 - exception response request SNA-PRM-25
- 3600 multithread
 - message recovery changes MIG-GD1-252
- 3600/4700 SNA generation requirements SYS-GEN-140
- 3601 applications SNA-PRM-25
- 3601 control program SNA-PRM-23
- 3614/3624 Message Processing SNA-PRM-251
- 3614/3624 Session Initiation and Application Considerations SNA-PRM-251
- 3705 communications control unit
 - 3705 keypoint (CCKP)
 - loading OPR-GDE-43
 - module references, scratching OPR-GDE-44
 - scratching module references OPR-GDE-44
 - status indicators OPR-GDE-38, OPR-GDE-43
 - automatic dump option
 - status, displaying OPR-GDE-38
 - turning off OPR-GDE-36
 - turning on OPR-GDE-36
 - automatic IPL option
 - turning off OPR-GDE-40
 - turning on OPR-GDE-40
 - channel adapter type
 - displaying OPR-GDE-38
 - channel address
 - displaying OPR-GDE-38
 - diagnostics
 - running OPR-GDE-40

- 3705 communications control unit *(continued)*
 - dumps
 - automatic dump option OPR-GDE-36
 - performing OPR-GDE-36
 - purging OPR-GDE-42
 - removing from file storage OPR-GDE-42
 - writing to a dump tape (CDM) file OPR-GDE-42
 - Dynamic Dump utility
 - emulation program (EP) line trace function OPR-GDE-45
 - emulation program (EP) line trace function
 - running OPR-GDE-45
 - initializing OPR-GDE-43
 - IPL
 - automatic dump option OPR-GDE-40
 - performing OPR-GDE-40
 - line traces
 - emulation program (EP) line trace function OPR-GDE-45
 - load modules
 - associating OPR-GDE-40
 - loading OPR-GDE-35
 - module references, scratching OPR-GDE-44
 - scratching module references OPR-GDE-44
 - status, displaying OPR-GDE-38
 - module references
 - scratching OPR-GDE-44
 - scratching
 - module references OPR-GDE-44
 - Z3705 CLD command OPR-GDE-35
 - Z3705 DMP command OPR-GDE-36
 - Z3705 DSP command OPR-GDE-38
 - Z3705 IPL command OPR-GDE-40
 - Z3705 PRG command OPR-GDE-42
 - Z3705 RNT command OPR-GDE-43
 - Z3705 SCR command OPR-GDE-44
 - Z3705 TRC command OPR-GDE-45
- 3705 Communications macro SYS-MAC-403
- 3705 control unit
 - dump
 - changes MIG-GD1-84
 - purge from online system MIG-GD1-84
 - indicator
 - reinitialize MIG-GD1-84
 - IPL MIG-GD1-84
 - module
 - load to online system MIG-GD1-84
 - scratch references MIG-GD1-84
 - status
 - display MIG-GD1-84
- 3705 keypoint (CCKP)
 - loading OPR-GDE-43
 - module references
 - scratching OPR-GDE-44
 - scratching
 - module references OPR-GDE-44
 - status indicators
 - displaying OPR-GDE-38
 - initializing OPR-GDE-43
 - Z3705 DSP command OPR-GDE-38
 - Z3705 RNT command OPR-GDE-43
- 3705 keypoint (CCKP) *(continued)*
 - Z3705 SCR command OPR-GDE-44
- 3705 load modules
 - 3705 communications control unit
 - associating OPR-GDE-40
 - 3705 keypoint (CCKP)
 - status indicators OPR-GDE-38, OPR-GDE-43
 - channel adapter type
 - displaying OPR-GDE-38
 - channel address
 - displaying OPR-GDE-38
 - loading OPR-GDE-35
 - module name
 - displaying OPR-GDE-38
 - module references
 - scratching OPR-GDE-44
 - module type
 - displaying OPR-GDE-38
 - scratching
 - module references OPR-GDE-44
 - status
 - displaying OPR-GDE-38
 - Z3705 CLD command OPR-GDE-35
 - Z3705 DSP command OPR-GDE-38
 - Z3705 IPL command OPR-GDE-40
 - Z3705 SCR command OPR-GDE-44
- 37x5 communications controller MSP-PRM-47, SNA-PRM-11
- 37x5 Considerations SNA-PRM-240, SNA-PRM-241
- 37x5 device
 - channel-attached
 - maximum number OPR-GDE-977
 - input buffers
 - number allocated OPR-GDE-978
 - size of OPR-GDE-981
 - LEN sessions
 - maximum number OPR-GDE-979
 - mounting OPR-GDE-971
 - polling
 - starting OPR-GDE-1019
 - stopping OPR-GDE-1020
 - ZNETW MOUNT command OPR-GDE-971
 - ZNKEY command OPR-GDE-977, OPR-GDE-978, OPR-GDE-979, OPR-GDE-981
 - ZNPOL START command OPR-GDE-1019
 - ZNPOL STOP command OPR-GDE-1020
- 37x5 keypoint record OPR-GDE-963
- 37x5 link station AR-USG-19
- 37x5 native subchannel MSP-PRM-48
- 37x5 native subchannel (NSC)
 - 37x5 keypoint record OPR-GDE-963
- error counters
 - 37x5 keypoint record OPR-GDE-963
 - displaying OPR-GDE-963
 - resetting OPR-GDE-963
 - ZNERR command OPR-GDE-963
- 37x5 native subchannel
 - displaying of MSP-PRM-48
- 3880 record cache (RC)
 - caching status information
 - displaying OPR-GDE-182

3880 record cache (RC) (*continued*)
 ZBUFC ALLOCATE OPR-GDE-164
 ZBUFC ALLOCATE DISPLAY OPR-GDE-167
 ZBUFC ALLOCATE IMPLMNT OPR-GDE-169
 ZBUFC STATUS command OPR-GDE-182

3880 storage control report complexwide SPM-PRM-49

3990 Model 3 DBS-REF-49

3990 record cache subsystem (RCS)
 caching status information
 displaying OPR-GDE-182
 changing threshold value for OPR-GDE-184
 displaying the device range for OPR-GDE-174
 displaying the ID for OPR-GDE-174
 displaying threshold value for OPR-GDE-184
 pinned data
 discarding OPR-GDE-175
 displaying OPR-GDE-177
 RCS state change pending monitor
 displaying time interval for OPR-GDE-1287
 setting time interval for OPR-GDE-1279
 setting operating mode for OPR-GDE-179
 ZBUFC ALLOCATE OPR-GDE-164
 ZBUFC ALLOCATE DISPLAY OPR-GDE-167
 ZBUFC ALLOCATE IMPLMNT OPR-GDE-169
 ZBUFC ENABLE command OPR-GDE-171
 ZBUFC FILE command OPR-GDE-172
 ZBUFC MAP command OPR-GDE-174
 ZBUFC PINNED DISCARD OPR-GDE-175
 ZBUFC PINNED DISPLAY OPR-GDE-177
 ZBUFC SETCACHE command OPR-GDE-179
 ZBUFC STATUS command OPR-GDE-182
 ZBUFC THRESHLD command OPR-GDE-184
 ZSONS ALTER SCP command OPR-GDE-1279
 ZSONS DISPLAY SCP command OPR-GDE-1287

3990 storage control report complexwide SPM-PRM-52

4 KB program
 changes MIG-GD1-241
 overview MIG-GD1-16

4-byte record header DBS-REF-167

4-byte standard record header APP-GDE-265

4K common frame CON-STR-74

4K common frame
 common block CON-STR-74
 relationship of common frame to common block
 CON-STR-75

4K frame CON-STR-74

4K frame
 ECB private area (EPA) CON-STR-75
 relationship of frame to logical block CON-STR-74

4K read buffers SNA-PRM-225

4K write buffers SNA-PRM-225

4x4 format, data event control blocks (DECBs)
 APP-GDE-31

8-byte file address support APP-GDE-31,
 APP-GDE-265

8-byte file address support
 API changes MIG-GD2-1160
 architecture MIG-GD2-1114
 book changes MIG-GD2-1159
 C/C++ language MIG-GD2-1114
 CINFC tags MIG-GD2-1119

8-byte file address support (*continued*)
 commands MIG-GD2-1142
 CONKC tags MIG-GD2-1119
 copy members MIG-GD2-1119
 database changes MIG-GD2-1160
 feature changes MIG-GD2-1160
 fixed file records MIG-GD2-1123
 functional changes MIG-GD2-1142
 functional overview MIG-GD2-1111
 host system changes MIG-GD2-1160
 installation validation MIG-GD2-1160
 interfaces MIG-GD2-1114
 loading process MIG-GD2-1159
 macros MIG-GD2-1124
 migration scenarios MIG-GD2-1160
 offline messages MIG-GD2-1144
 online messages MIG-GD2-1144
 online system load MIG-GD2-1159
 operating environment requirements MIG-GD2-1114
 operational changes MIG-GD2-1142
 overview MIG-GD2-32, MIG-GD2-1111
 performance changes MIG-GD2-1158
 planning information MIG-GD2-1114
 prerequisite APARs MIG-GD2-1111
 segments MIG-GD2-1131
 SIP changes MIG-GD2-1158
 storage changes MIG-GD2-1158
 storage considerations MIG-GD2-1158
 system equates MIG-GD2-1142
 system errors MIG-GD2-1144
 system generation changes MIG-GD2-1158
 tuning changes MIG-GD2-1158
 user exits MIG-GD2-1142

8-byte record header DBS-REF-168

8-byte standard record header APP-GDE-265

A

A11 universal character set
 CUAL program OPR-GDE-103
 defining OPR-GDE-103
 loading OPR-GDE-102
 ZAURS LUCS command OPR-GDE-102

AAA/RCB initialization table (UAT) SYS-GEN-137

abbreviations PSM-GDE-4

abort PDU create processing
 ZRPDU ABORT command OPR-GDE-1223

abort, database reorganization DBS-REF-97

about the IP trace table CLAWGR-407

absolute address CON-STR-26, CON-STR-27

absolute path name CON-STR-153

accept a connect request from CLAW workstation
 CLAWGR-386

accept a connection request
 socket API function, accept CLAWGR-138

accept an SSL session connection request
 SSL API function, SSL_accept CLAWGR-274

Acceptable BIND Image For a Local Host Node SLU
 SNA-PRM-284

access and lock synchronizable TPF global field or
 record CLS-UGR-280

access control list (ACL) CLAWGR-256

- access control list (ACL)
 - deleting users from OPR-GDE-722
 - displaying OPR-GDE-726
 - setting OPR-GDE-742
 - ZMAIL DELETEACLMAILBOX command OPR-GDE-722
 - ZMAIL LISTACLMAILBOX command OPR-GDE-726
 - ZMAIL SETACLMAILBOX command OPR-GDE-742
- access environment variables GEN-MAC-61
- access list CLAWGR-259, CLAWGR-264
- access list
 - /etc/postfix/access CLAWGR-259
 - creating CLAWGR-259
 - parameters CLAWGR-264
- access mode CLS-UGR-1409
- access mode, fopen CLS-UGR-199
- access mode, retrieving for a collection CLS-UGR-1049
- access mode, setting for a collection CLS-UGR-1101
- access per CHPID SPM-PRM-45
- access permissions APP-GDE-170, CON-STR-150
- access permissions
 - changing OPR-GDE-444
 - general discussion APP-GDE-170
 - rules to determine file accessibility APP-GDE-171
 - ZFILE chmod command OPR-GDE-444
- access recoup descriptor record for recoup SYS-MAC-264
- Access RIAT Entry macro SYS-MAC-407
- access rights
 - deleting OPR-GDE-722
 - displaying OPR-GDE-726
 - setting OPR-GDE-742
 - ZMAIL DELETEACLMAILBOX command OPR-GDE-722
 - ZMAIL LISTACLMAILBOX command OPR-GDE-726
 - ZMAIL SETACLMAILBOX command OPR-GDE-742
- access the group database by ID CLS-UGR-261
- access the group database by name CLS-UGR-263
- access the Internet, application programs
 - socket API functions CLAWGR-137
- Access the Record Cache Subsystem Status Table macro SYS-MAC-400
- access the subsystem status table (SSST) SYS-MAC-400
- access the user database by name CLS-UGR-269
- access the user database by user ID CLS-UGR-271
- access time minimization SYS-GEN-62
- access to the TPFCS database DBS-REF-142
- access, controlling APP-GDE-101
- accesses per second SPM-PRM-43, SPM-PRM-45
- accessing a collection by key CON-STR-162
- accessing elements, using cursors APP-GDE-110
- accessing file records with a data event control block (DECB) APP-GDE-31
- accessing non-standard records
 - on a general data set (GDS) CON-STR-143
- accessing standard records
 - on a general data set (GDS) CON-STR-143
- accessing
 - data APP-GDE-250
 - file storage APP-GDE-257
- ACF/SNA table generation
 - changes MIG-GD1-210
 - overview MIG-GD1-8
- ACPL MSP-PRM-3, MSP-PRM-5
- acquired code PSM-GDE-1
- acquired storage
 - release SYS-MAC-77, SYS-MAC-81
- action code PSM-GDE-3
- action code summary SPM-PRM-70, SPM-PRM-86
- action code summary
 - mean output length SPM-PRM-86
 - report SPM-PRM-69
- action codes SNA-PRM-23
- activate a CLAW logical link request CLAWGR-390
- activate a program after data received
 - socket API function, activate_on_accept CLAWGR-141
 - socket API function, activate_on_receipt_with_length CLAWGR-148
 - socket API function, activate_on_receipt CLAWGR-144
- Activate or Deactivate C Function Trace for an ECB macro SYS-MAC-221
- activating a cross-domain link SNA-PRM-14
- activating and deactivating a Shared NCP
 - loading NCP on 37x5 SNA-PRM-201
- activating and deactivating APPN CP-CP sessions SNA-PRM-204
- activating and deactivating CDLC IP routers CLAWGR-65
- activating and deactivating control LU-Logon Manager sessions SNA-PRM-204
- activating and deactivating cross-domain resource managers
 - PU 5 environment SNA-PRM-202
- activating and deactivating OSA-Express connections CLAWGR-67
- activating and deactivating resources SNA-PRM-201
- activating applications APP-GDE-41
- activating applications
 - conditions at activation APP-GDE-12, APP-GDE-43
- activating CCP trace OPR-GDE-705
- activating CCP trace
 - ZLTRF command OPR-GDE-705
 - ZLTRL command OPR-GDE-706
 - ZLTRN command OPR-GDE-708
- activating loadsets for C function trace tracing
 - ECB origin PDV-PRM-136
 - production environment PDV-PRM-136
 - using E-type loader PDV-PRM-136
- activating LU-LU sessions SNA-PRM-206
- activating sessions SNA-PRM-20
- activating the archiving external device support CLS-UGR-1361
- activation numbers
 - displaying OPR-GDE-302
 - ZDEAT command OPR-GDE-302
- activation of test PDV-PRM-13
- ACTIVATION parameter CLAWGR-237
- active logical link, send message on CLAWGR-403

active queue CLAWGR-257, SPM-PRM-33
 active queue control record CLAWGR-257
 active queue record CLAWGR-257
 active subsystem pools SPM-PRM-28
 activity, system SPM-PRM-25
 AD/Cycle C/370 requirements SYS-GEN-173
 adapter, query status CLAWGR-400
 adapter, remove logical link CLAWGR-393
 adaptive rate-based (ARB) pacing
 calculating ACF-GDE-15, ACF-GDE-16
 RTP connection traffic
 regulating OPR-GDE-975, OPR-GDE-976,
 OPR-GDE-977
 values for calculating
 changing OPR-GDE-975, OPR-GDE-976,
 OPR-GDE-977
 displaying OPR-GDE-975, OPR-GDE-976,
 OPR-GDE-977
 ZNKEY command OPR-GDE-975, OPR-GDE-976,
 OPR-GDE-977
 adaptive rate-based pacing
 ARB algorithm SNA-PRM-168
 description of SNA-PRM-168
 ADD PDV-PRM-29
 Add a Block to Top of a Dispatch List macro
 SYS-MAC-98
 add a file descriptor to a file descriptor set
 CLS-UGR-139
 add a new cache entry CLS-UGR-673
 add a signal to a signal set CLS-UGR-490
 Add an Entry to the Sense Table macro SYS-MAC-328
 Add Block to the End of a Dispatch List macro
 SYS-MAC-101
 add record IDs to the exclusion table
 ZRECP ADD command OPR-GDE-1151
 add record IDs to the inclusion table
 ZRECP ADD command OPR-GDE-1151
 Add Work to a List on Specified I-stream macro
 SYS-MAC-12
 add work to a list on specified I-stream macro (\$ADPC)
 CON-STR-87
 add
 environment variable CLS-UGR-463
 ADDFC macro SYS-MAC-98
 adding elements APP-GDE-107
 adding entry for an Internet server application to the
 IDCF CLAWGR-235
 adding FTP server entry to the IDCF CLAWGR-243
 adding IP routing table entries CLAWGR-74
 adding key paths APP-GDE-117
 adding syslog daemon server entry to the IDCF
 CLAWGR-249
 adding TFTP server entry to the IDCF CLAWGR-239
 adding
 a key path to a collection CLS-UGR-890
 an item to the index CLS-UGR-893
 elements from the source collection to target
 collection CLS-UGR-886
 or replacing data to a BLOB CLS-UGR-917
 specified data to the collection CLS-UGR-883
 additional blocks mapped PDV-PRM-100
 additions PSM-GDE-1
 ADDLC macro SYS-MAC-101
 address attribute
 SONIC macro MIG-GD1-306
 address capacity GIM-25
 address chains APP-GDE-267
 address conversion SNA-PRM-19
 address dispensing mode
 change current mode MIG-GD1-245
 change for file addressing MIG-GD1-244
 changes MIG-GD1-75
 dispense MIG-GD1-244
 display current mode MIG-GD1-75, MIG-GD1-245
 FARF3 MIG-GD1-75
 FARF4 MIG-GD1-75
 FARF5 MIG-GD1-75
 preferred MIG-GD1-244
 address format
 FARF3 MIG-GD1-12
 FARF4 MIG-GD1-12
 FARF5 MIG-GD1-12
 MCHR MIG-GD1-8
 address formats DBS-REF-22
 address formats
 FARF3 GIM-25
 FARF4 GIM-25
 FARF5 GIM-25
 implementation SYS-GEN-25
 address parts
 mapping CLAWGR-120
 address space CON-STR-26
 address space
 changes MIG-GD1-229, MIG-GD1-236
 ECB virtual memory (EVM) MIG-GD1-236
 home virtual address space CON-STR-26
 isolation CON-STR-29
 manage MIG-GD1-236
 minimize switching MIG-GD1-236
 move between MIG-GD1-229, MIG-GD1-236
 move data between MIG-GD1-236, MIG-GD1-309
 performance overhead MIG-GD1-236
 primary virtual address space CON-STR-26
 system virtual memory (SVM) MIG-GD1-236
 types MIG-GD1-213
 address spaces APP-GDE-235
 address spaces
 managing MSP-PRM-18
 address TPF global field or record CLS-UGR-277
 address, getting for a method CLS-UGR-1236
 address
 absolute address CON-STR-26
 addressing mode
 description MIG-GD1-220
 specify for 24-bit addressing mode MIG-GD1-218
 specify for 31-bit addressing mode MIG-GD1-218
 specify for IBM C language MIG-GD1-218
 type MIG-GD1-218
 VEQR mode MIG-GD1-297
 block MIG-GD1-310
 conversion SYS-MAC-40
 conversion between EVM and SVM SYS-MAC-276

address (*continued*)

- conversion of EVM to SVM SYS-MAC-46
- conversion
 - EVM to SVM MIG-GD1-236
 - SVM to EVM MIG-GD1-236
- for RNHPT entry SYS-MAC-212
- get block SYS-MAC-48
- get file GEN-MAC-228, GEN-MAC-230
- get file pool GEN-MAC-248
- pool section file storage GEN-MAC-258
- real address CON-STR-26
- release I/O control block SYS-MAC-75
- space switch SYS-MAC-84
- validation for EVM SYS-MAC-93
- virtual address CON-STR-26

addresses of C library functions APP-GDE-65

addresses

- extended MCHR DBS-REF-11
- formats DBS-REF-3
- general data set DBS-REF-11
- general file DBS-REF-11
- online file DBS-REF-3

addressing ALC devices SNA-PRM-48

addressing elements APP-GDE-107

addressing mode characteristic GEN-MAC-366

addressing mode

- 24-bit INS-PRM-401
- 31-bit INS-PRM-401
- specifying INS-PRM-401
- using the MODE statement INS-PRM-401

addressing the ECB CLS-UGR-101

ADDST PDV-PRM-29

Adjacent Link Station - ALS SNA-PRM-4

adjacent link station (ALS) resource

- activating OPR-GDE-964
- active sessions
 - current number OPR-GDE-985
 - maximum number OPR-GDE-985
 - maximum session count OPR-GDE-985
- adding OPR-GDE-953
- changing OPR-GDE-956
- control logical unit (CLU) name
 - displaying OPR-GDE-917
- CP-CP sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
- creating OPR-GDE-953
- deactivating OPR-GDE-969
- defining OPR-GDE-953, OPR-GDE-1002
- deleting OPR-GDE-1002
- displaying OPR-GDE-917, OPR-GDE-985
- list of
 - displaying OPR-GDE-968
- logical unit (LU)
 - displaying OPR-GDE-946
- Logon Manager
 - active sessions, number of OPR-GDE-977
 - maximum session count
 - description of OPR-GDE-985
 - resetting OPR-GDE-985

adjacent link station (ALS) resource (*continued*)

- network command status table
 - displaying OPR-GDE-997
- network ID
 - displaying OPR-GDE-917
- node name
 - displaying OPR-GDE-985
- path information unit (PIU)
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
- polling
 - starting OPR-GDE-1019
 - stopping OPR-GDE-1020
- PU 2.1 channel adapter
 - mounting OPR-GDE-971
- redefining OPR-GDE-956
- resetting
 - maximum session count OPR-GDE-985
- resource definitions
 - changing OPR-GDE-956
 - creating OPR-GDE-953
- resource ID
 - displaying OPR-GDE-958
- resource name
 - changing OPR-GDE-956
 - defining OPR-GDE-953
- RNH tables
 - displaying OPR-GDE-958
- RNHET address
 - displaying OPR-GDE-958
- RNHPT address
 - displaying OPR-GDE-958
- RVT address
 - displaying OPR-GDE-958
- RVT entry
 - displaying OPR-GDE-1038
 - initializing OPR-GDE-1042
- session information
 - displaying OPR-GDE-985
- sessions, active
 - current number OPR-GDE-985
 - maximum number OPR-GDE-985
 - maximum session count OPR-GDE-985
- slowdown time interval
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
- statistics
 - displaying OPR-GDE-985
- status
 - displaying OPR-GDE-917, OPR-GDE-968
- symbolic device address
 - displaying OPR-GDE-917, OPR-GDE-985
- tracing OPR-GDE-1052
- ZNALS command OPR-GDE-917
- ZNDLU command OPR-GDE-946
- ZNDYN ADD command OPR-GDE-953
- ZNDYN CHANGE command OPR-GDE-956
- ZNDYN DISPLAY command OPR-GDE-958
- ZNETW ACT command OPR-GDE-964
- ZNETW DISPLAY command OPR-GDE-968
- ZNETW INACT command OPR-GDE-969

adjacent link station (ALS) resource *(continued)*
 ZNETW MOUNT command OPR-GDE-971
 ZNKEY command OPR-GDE-977, OPR-GDE-980
 ZNMON command OPR-GDE-985
 ZNNCS command OPR-GDE-997
 ZNOPL LOAD command OPR-GDE-1002
 ZNPIU command OPR-GDE-1012
 ZNPOL START command OPR-GDE-1019
 ZNPOL STOP command OPR-GDE-1020
 ZNRVT command OPR-GDE-1038
 ZNRVT INITIALIZE command OPR-GDE-1042
 ZNTRP command OPR-GDE-1052

adjacent link station (ALS)
 access application program MIG-GD1-253
 changes MIG-GD1-252, MIG-GD1-253
 display status MIG-GD1-75
 dynamic LU support MIG-GD2-18
 overview MIG-GD1-8

adjusted I-stream utilization SYS-GEN-48,
 SYS-GEN-51

administering local queue manager, TPF MQSeries
 APP-GDE-86

ADR tapes OPR-GDE-18

advanced communications function/trace analysis
 program (ACF/TAP)
 overview MIG-GD1-16

Advanced Peer-to-Peer Communication (APPC) session
 AR-USG-2, AR-USG-3

advanced peer-to-peer networking SNA-PRM-16

Advanced Peer-to-Peer Networking SNA-PRM-2,
 SNA-PRM-16

advanced peer-to-peer networking (APPN) support
 APPN mode
 switching to OPR-GDE-921

control point (CP)
 activating OPR-GDE-964
 active links OPR-GDE-921
 deactivating OPR-GDE-969
 displaying OPR-GDE-946
 name OPR-GDE-973

CP-CP sessions
 ending OPR-GDE-969
 starting OPR-GDE-964

LEN mode
 switching to OPR-GDE-921

migration switch
 APPN mode OPR-GDE-921
 displaying current setting of OPR-GDE-921
 LEN mode OPR-GDE-921

network topology
 displaying OPR-GDE-921

PU 2.1 links
 activating OPR-GDE-964
 deactivating OPR-GDE-969
 displaying OPR-GDE-921, OPR-GDE-985

remote CP
 activating OPR-GDE-964

ZNAPN command OPR-GDE-921
 ZNDLU command OPR-GDE-946
 ZNETW ACT command OPR-GDE-964
 ZNETW INACT command OPR-GDE-969

advanced peer-to-peer networking (APPN) support
(continued)
 ZNKEY command OPR-GDE-973
 ZNMON command OPR-GDE-985

Advanced Peer-to-Peer Networking
 37x5 Considerations SNA-PRM-240
 considerations with System network Interconnection
 (SNI) SNA-PRM-234
 CP-CP sessions SNA-PRM-204
 environment SNA-PRM-16
 LU registration SNA-PRM-211
 LU-LU sessions SNA-PRM-211

advanced program-to-program communication (APPC)
 ALLOCATE verb
 timing out OPR-GDE-981

allocation requests
 resetting OPR-GDE-940

class of service name
 CDINIT response OPR-GDE-979

contention-winner polarities
 changing OPR-GDE-932
 initializing OPR-GDE-936

conversation control blocks (CCBs)
 displaying OPR-GDE-923
 initializing OPR-GDE-923
 number defined OPR-GDE-978

logical unit (LU)
 displaying OPR-GDE-946

mode name
 displaying OPR-GDE-946

modes
 displaying OPR-GDE-1038

RECEIVE verb
 timing out OPR-GDE-981

session control block (SCB)
 displaying OPR-GDE-1043
 initializing OPR-GDE-923, OPR-GDE-1045
 maximum number OPR-GDE-978

session limit
 changing OPR-GDE-932
 displaying OPR-GDE-1038
 initializing OPR-GDE-936
 resetting OPR-GDE-940

side information table function OPR-GDE-1046

single sessions
 mode name OPR-GDE-980

TPPCC wait verb
 timing out OPR-GDE-981

ZNCCB command OPR-GDE-923
 ZNCNS CHANGE command OPR-GDE-932
 ZNCNS INITIALIZE command OPR-GDE-936
 ZNCNS RESET command OPR-GDE-940
 ZNDLU command OPR-GDE-946
 ZNKEY command OPR-GDE-978, OPR-GDE-979,
 OPR-GDE-980, OPR-GDE-981
 ZNRVT command OPR-GDE-1038
 ZNSCB command OPR-GDE-1043
 ZNSCB INITIALIZE command OPR-GDE-1045
 ZNSID command OPR-GDE-1046

agent assembly area (AAA) APP-GDE-49,
 CON-STR-180, SNA-PRM-19, SYS-GEN-138

- agents CON-STR-3
- agents assembly area (AAA) APP-GDE-12
- aging out process CON-STR-139
- Airline Control System (ALCS)
 - using FILNC macro SPM-18
 - using FILWC macro SPM-18
 - using FIWHC macro SPM-18
 - using structured programming macros in SPM-3
 - using WAITC macro SPM-18
- airlines line control (ALC) CON-STR-186
- Airlines Line Control (ALC) SNA-PRM-2, SPM-PRM-2
- airlines line control (ALC) support SYS-GEN-8
- airlines line control (ALC)
 - general MIG-GD1-69, MIG-GD1-73
 - high-speed lines MIG-GD1-72
 - low-speed lines MIG-GD1-72
- Airlines Line Control (ALC)
 - Airlines Line Control Interface (ALCI) SNA-PRM-45
 - AX.25 support SNA-PRM-45
 - Network Extension Facility (NEF) SNA-PRM-45
 - support through SNA SNA-PRM-45
 - terminal interchange SNA-PRM-46
- Airlines Line Control Interface (ALCI) SNA-PRM-2
- airlines reservation application package (RES0)
 - CON-STR-171, CON-STR-178
- ALASC macro GEN-MAC-28
- ALC (Airlines Line Control) SNA-PRM-2
- ALC (airlines line control) support SYS-GEN-8
- ALCI (Airlines Line Control Interface) SNA-PRM-2, SNA-PRM-45
- ALDR Path card INS-PRM-337, INS-PRM-357
- alias CDRM names
 - define
 - TPF Advanced Peer-to-Peer Networking (TPF/APPN) MIG-GD2-160
- aliasing a queue manager, TPF MQSeries APP-GDE-82
- alignment, boundary
 - data macros, converting APP-GDE-145
- alive timer
 - changing OPR-GDE-974
 - defining ACF-GDE-15
 - defining
 - SNAKEY macro SNA-PRM-145
 - ZNKEY command SNA-PRM-145
 - description of SNA-PRM-145
 - displaying OPR-GDE-974
 - heartbeat message SNA-PRM-145
 - ZNKEY command OPR-GDE-974
- ALL tapes OPR-GDE-18
- ALLOCATE SNA-PRM-73
- allocate shared memory CLS-UGR-483
- allocate user programs SYS-GEN-261
- ALLOCATE verb
 - timing out OPR-GDE-981
 - ZNKEY command OPR-GDE-981
- allocating programs
 - adding function switches INS-PRM-406
 - in an active TPF system INS-PRM-369
 - using the offline SALO program INS-PRM-402
- allocating spare program slots INS-PRM-405
- allocating storage APP-GDE-235, APP-GDE-237, APP-GDE-254
- allocating storage
 - file storage allocation APP-GDE-250
 - main storage allocation APP-GDE-235
 - random pool file area allocation APP-GDE-254
 - working storage allocation APP-GDE-237
- allocating transfer vectors INS-PRM-404
- allocation error listings INS-PRM-407
- allocation of programs SYS-GEN-36
- allocation reports INS-PRM-407
- allocation statements APP-GDE-339
- allocation
 - allocator statement
 - modify MIG-GD1-217
 - changes for storage blocks GEN-MAC-314
 - create storage table SYS-MAC-501
 - globals MIG-GD1-203
 - of user storage SYS-MAC-501
- allocator decks SYS-GEN-183
- allocator macros SYS-GEN-36
- allocator, creating a user SYS-GEN-183
- allow directive APP-GDE-174, CLAWGR-240
- allows the issuing ECB to exit and a specific program to be activated in a new ECB
 - SSL API function, SSL_aor CLAWGR-275
- ALPHA macro GEN-MAC-31
- alpha pointers
 - in optional log function PDV-PRM-56
 - in selective file dump PDV-PRM-54
 - in selective file trace PDV-PRM-55
 - in SFD PDV-PRM-54
 - in SFT PDV-PRM-55
 - parameter descriptions for C function trace PDV-PRM-139
- alphabet PSM-GDE-3
- alphabetic scan macro GEN-MAC-31
- ALREADYV
 - specifying on the SECACPT keyword of VTAM APPL statement AR-USG-19
- ALS SNA-PRM-64, SNA-PRM-65
- ALS - Adjacent Link Station SNA-PRM-4
- ALS deck
 - ALS statement ACF-GDE-46
 - CTC statement ACF-GDE-49
 - description of ACF-GDE-45
 - example ACF-GDE-62
 - NCP statement ACF-GDE-47
- ALS resource
 - define MIG-GD1-252
 - dynamic LU support MIG-GD1-252
- ALS resources
 - defining ACF-GDE-45, ACF-GDE-46
- ALS statement
 - alsname parameter ACF-GDE-46
 - ALSQN parameter ACF-GDE-47
 - CLU parameter ACF-GDE-47
 - description of ACF-GDE-46
 - example ACF-GDE-62
 - QN parameter ACF-GDE-47

- alsname parameter
 - ALS statement ACF-GDE-46
- ALSNODES ACF-GDE-34
- ALSQN parameter
 - ALS statement ACF-GDE-47
- ALT tapes OPR-GDE-18
- altering channels, TPF MQSeries APP-GDE-86
- altering records PDV-PRM-23
- alternate CRAS SNA-PRM-49
- alternate DASD paths SYS-GEN-87
- alternate key paths, using cursors APP-GDE-110
- alternate mode record
 - FARF record type MIG-GD1-246
 - in a file address MIG-GD1-246
- alternate path MPI-PRM-5
- alternate printer
 - ZNALT command OPR-GDE-920
- alternate resource sharing facility GEN-MAC-15
- alternate RRT definitions
 - description of OPR-GDE-1007
 - falling back to OPR-GDE-1000
 - status of
 - displaying OPR-GDE-1007
 - updating OPR-GDE-1011
 - ZNOPL FALLBACK command OPR-GDE-1000
 - ZNOPL STATUS command OPR-GDE-1007
 - ZNOPL UPDATE command OPR-GDE-1011
- AM0SG SNA-PRM-100
- AM0SG macro APP-GDE-14, APP-GDE-23
- AMSG format
 - coding applications SNA-PRM-42
- AMSG records PDV-PRM-23
- AMSSC macro GEN-MAC-33
- an ESCON channel MPI-PRM-3
- analysis
 - cylinder SPM-PRM-47
 - data reduction SPM-PRM-6
 - file data SPM-PRM-41
 - program data SPM-PRM-61
 - system data SPM-PRM-11
 - system performance SPM-PRM-11
- animation CON-STR-39
- animation of a program CON-STR-108
- Anomaly Log, DP Record SPM-PRM-61
- ANR labels SNA-PRM-128, SNA-PRM-136
- ANR nodes SNA-PRM-127
- ANT deck
 - ANTDEF statement ACF-GDE-35
 - ANTEND statement ACF-GDE-37
 - ANTNME statement ACF-GDE-36
 - description of ACF-GDE-34
 - example ACF-GDE-59
 - generating name of ACF-GDE-34
 - MSGRTA macro ACF-GDE-34
 - RRT entries ACF-GDE-35
 - SIP process ACF-GDE-34
- ANTDEF statement
 - CPUID parameter ACF-GDE-35
 - description of ACF-GDE-35
 - example ACF-GDE-59
 - SDPSID parameter ACF-GDE-35
- ANTDEF statement (*continued*)
 - symbol parameter ACF-GDE-35
- ANTEND statement
 - description of ACF-GDE-37
 - example ACF-GDE-59
 - symbol parameter ACF-GDE-37
- ANTNME statement
 - APPL parameter ACF-GDE-37
 - CPUID parameter ACF-GDE-36
 - description of ACF-GDE-36
 - example ACF-GDE-59
 - NAME parameter ACF-GDE-36
 - RECVRY parameter ACF-GDE-37
 - SAWARE parameter ACF-GDE-37
 - SNA parameter ACF-GDE-36
 - symbol parameter ACF-GDE-36
- AOLA (array of library addresses) APP-GDE-65
- AOR process model APP-GDE-173, APP-GDE-176, APP-GDE-180
- APAR PJ23493
 - API changes MIG-GD2-314
 - architecture MIG-GD2-308
 - C/C++ language MIG-GD2-309
 - CINFC tags MIG-GD2-309
 - commands MIG-GD2-313
 - CONKC tags MIG-GD2-309
 - copy members MIG-GD2-310
 - database changes MIG-GD2-315
 - feature changes MIG-GD2-315
 - fixed file records MIG-GD2-310
 - functional changes MIG-GD2-313
 - functional overview MIG-GD2-308
 - hardware MIG-GD2-308
 - host system changes MIG-GD2-314
 - installation validation MIG-GD2-315
 - interfaces MIG-GD2-309
 - loading process MIG-GD2-314
 - macros MIG-GD2-310
 - migration scenarios MIG-GD2-315
 - offline messages MIG-GD2-313
 - online messages MIG-GD2-313
 - online system load MIG-GD2-314
 - operating environment requirements MIG-GD2-308
 - operational changes MIG-GD2-313
 - overview MIG-GD2-308
 - performance changes MIG-GD2-314
 - planning information MIG-GD2-308
 - prerequisite APARs MIG-GD2-308
 - publication changes MIG-GD2-314
 - segments MIG-GD2-312
 - SIP changes MIG-GD2-314
 - software (programming requirements) MIG-GD2-308
 - storage changes MIG-GD2-314
 - storage considerations MIG-GD2-314
 - system equates MIG-GD2-312
 - system errors MIG-GD2-313
 - system generation changes MIG-GD2-314
 - tuning changes MIG-GD2-314
 - user exits MIG-GD2-312
- API (application programming interface) CLAWGR-137

- API functions
 - See TPF API functions
- API registers PSM-GDE-27
- API support, socket CLAWGR-122
- API, TPF MQSeries APP-GDE-79
- APIs for process control
 - alarm APP-GDE-169
 - getpid APP-GDE-169
 - getppid APP-GDE-169
 - kill APP-GDE-169
 - pause APP-GDE-169
 - raise APP-GDE-169
 - sigaction APP-GDE-169
 - signal APP-GDE-169
 - sigpending APP-GDE-169
 - sigprocmask APP-GDE-169
 - sigsuspend APP-GDE-169
 - sleep APP-GDE-169
 - tpf_fork APP-GDE-169
 - tpf_process_signals APP-GDE-169
 - wait APP-GDE-169
 - waitpid APP-GDE-169
- APIs for signal handling
 - sleep APP-GDE-170
 - tpf_process_signals APP-GDE-170
 - waitc APP-GDE-170
 - waitpid APP-GDE-170
- APPC (Advanced Peer-to-Peer Communication) session
 - AR-USG-2, AR-USG-3
- APPC
 - starting AR-USG-26
- APPL parameter
 - ANTNME statement ACF-GDE-37
- APPL-APPL sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - ZNETW ACT command OPR-GDE-964
 - ZNETW INACT command OPR-GDE-969
- application APP-GDE-18
- application and system support
 - MDBF considerations SYS-GEN-142
 - packages SYS-GEN-141
 - TPF collection support SYS-GEN-162
- application characteristics APP-GDE-101
- application detail SPM-PRM-86
- application detail report SPM-PRM-71
- application development
 - considerations for
 - NCB records SNA-PRM-190
 - CSNB segment SNA-PRM-190
- application dictionary, data store APP-GDE-104,
 - CLS-UGR-1187
- application enabling tools CON-STR-149
- application global area SYS-GEN-40
- application I-stream engine CON-STR-48,
 - CON-STR-49
- application interface
 - conversion GEN-MAC-271
 - macro to select a thread GEN-MAC-353
- application lock CON-STR-47
- application message SNA-PRM-25
 - application message editor APP-GDE-44
 - application name CON-STR-178
 - application name table (ANT) APP-GDE-42,
 - CON-STR-178
 - application name
 - finding GEN-MAC-316
 - application program CON-STR-39, CON-STR-83
 - application program areas SYS-GEN-36
 - application program errors MSP-PRM-40
 - application program interface SYS-GEN-141
 - application program interface (API) APP-GDE-227
 - application program interface (API)
 - functions APP-GDE-227
 - application program interface registers PSM-GDE-27
 - application program use for moving a VIPA
 - CLAWGR-69
 - application program
 - 31-bit addressing considerations MIG-GD1-314
 - access through
 - ALS MIG-GD1-253
 - CTC MIG-GD1-253
 - NCP MIG-GD1-253
 - block scanning MIG-GD1-312
 - changes
 - general MIG-GD1-305
 - recommended MIG-GD1-312
 - utilities MIG-GD1-311
 - considerations for application programs
 - instructions MIG-GD1-306
 - load real address (LRA) command MIG-GD1-306
 - migration MIG-GD1-314
 - real addresses MIG-GD1-306
 - consolidate application program names
 - consolidate for TPF/APPC MIG-GD1-251
 - data sharing considerations MIG-GD1-314
 - develop MIG-GD1-305
 - ECB checking MIG-GD1-312
 - EVENT facility MIG-GD1-305
 - file address reference format (FARF) considerations
 - MIG-GD1-314
 - get file addresses for program records MIG-GD1-226
 - GETPC macro MIG-GD1-306
 - global area addresses MIG-GD1-305
 - how to test global attribute indicators MIG-GD1-311
 - input/output blocks (IOBs) MIG-GD1-312
 - lock in storage MIG-GD1-306
 - macro considerations MIG-GD1-313
 - migration considerations MIG-GD1-313
 - modify to share data between ECBs MIG-GD1-305
 - monitor system activity MIG-GD1-312
 - nesting levels MIG-GD1-313
 - query the number of storage blocks MIG-GD1-312
 - RELPC macro MIG-GD1-306
 - shutdown levels MIG-GD1-312
 - transaction program CON-STR-183
 - unlock from storage MIG-GD1-306
 - application programming interface (API) APP-GDE-25,
 - CLAWGR-137
 - application programming interface functions
 - socket application CLAWGR-137

- application programming interfaces (APIs), TPFCS CON-STR-167
- application programming macros GEN-MAC-xv
- application programs
 - assembler language AR-USG-79
 - assembler modifications when using the same cursor AR-USG-43
 - C AR-USG-32
 - defining SNA-PRM-201
 - defining to VTAM AR-USG-19
 - effect on TPFAR performance AR-USG-98
 - header files for C AR-USG-32
 - role in synchronizing updates AR-USG-31
 - SQL considerations for AR-USG-31
 - starting/stopping SNA-PRM-201
 - TPF C AR-USG-42, AR-USG-45, AR-USG-49, AR-USG-56, AR-USG-61, AR-USG-70
- application recovery package DCS-PRM-99
- Application Recovery Package DCS-PRM-53
- application recovery package (ARP) APP-GDE-47
- Application Recovery Package
 - CPU process DCS-PRM-102
 - define SIP parameters DCS-PRM-53
 - description DCS-PRM-99
 - determine global and related file modification DCS-PRM-53
 - general implementation steps DCS-PRM-53
 - input action DCS-PRM-101
 - macros DCS-PRM-55
 - main storage DCS-PRM-54
 - outputs DCS-PRM-102
 - PILOT DCS-PRM-55
- application recovery support DCS-PRM-45
- application recovery support
 - application interface DCS-PRM-46
 - ART user fields DCS-PRM-45
 - recoup DCS-PRM-51
 - scope DCS-PRM-45
 - utility programs DCS-PRM-50
- application requester (AR)
 - definition of AR-USG-111
 - illustration in remote data access AR-USG-1, AR-USG-2
 - implementation in Distributed Relational Database Architecture (DRDA) AR-USG-1
- application security APP-GDE-42
- application server (AS) AR-USG-1, AR-USG-5
- application server (AS)
 - definition of AR-USG-111
 - example of setting up when using assembler language with TPFAR AR-USG-79
 - illustration in remote data access AR-USG-1, AR-USG-2
 - implementation in Distributed Relational Database Architecture (DRDA) AR-USG-1
- application services
 - 3270 mapping CON-STR-180
 - 3270 simulation CON-STR-180
 - application program interface (API) to send output message CON-STR-181
 - communications control CON-STR-180
- application startup, TPFCS APP-GDE-104
- application startup, TPFCS
 - T02_createEnv method APP-GDE-104
- application summary SPM-PRM-86
- application summary and detail reports SPM-PRM-70
- Application Support Class Library APP-GDE-74
- Application Support Class Library support
 - overview MIG-GD2-8
- Application System Error macro GEN-MAC-378
- application timeout SYS-MAC-428
- Application Timeout (UCCAPL) INS-PRM-10
- application, new CON-STR-172
- application, old CON-STR-172
- application
 - activation of APP-GDE-12, APP-GDE-41
 - active
 - displaying OPR-GDE-355
 - conditions at activation APP-GDE-43
 - expanding an APP-GDE-281
 - global area APP-GDE-18, APP-GDE-240
 - message recovery APP-GDE-46
 - programs
 - application message editor APP-GDE-44
 - RCAT information
 - displaying OPR-GDE-355
 - register save area APP-GDE-38
 - security APP-GDE-42
 - sending unsolicited messages to OPR-GDE-1259
 - shutdown
 - displaying OPR-GDE-355
 - starting OPR-GDE-1221
 - stopped
 - displaying OPR-GDE-355
 - stopping OPR-GDE-1222
 - tables
 - application name table (ANT) APP-GDE-42
 - resource vector table (RVT) APP-GDE-42
 - routing control application table (RCAT) APP-GDE-42
 - WGTA table APP-GDE-42
 - work areas APP-GDE-26
 - ZDRCT command OPR-GDE-355
 - ZROUT START command OPR-GDE-1221
 - ZROUT STOP command OPR-GDE-1222
 - ZSNDA command OPR-GDE-1259
- applications, concurrent SNA-PRM-12
- applications, multiple
 - destinations, multiple CON-STR-171
- applications, old
 - support of OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- APPN mode SNA-PRM-4
- APPN mode
 - switching to OPR-GDE-921
 - ZNAPN command OPR-GDE-921
- APPN support SYS-GEN-8
- APSIZ parameter SYS-GEN-33
- AR (application requester)
 - definition of AR-USG-111
 - illustration in remote data access AR-USG-1, AR-USG-2

- AR (application requester) *(continued)*
 - implementation in Distributed Relational Database Architecture (DRDA) AR-USG-1
- ARB algorithm SNA-PRM-168
- arbitration CON-STR-29
- arbitration
 - hardware storage CON-STR-29
- architecture comparisons for TPF/APPC
 - ALLOCATE SNA-PRM-73
 - CONFIRM SNA-PRM-73
 - CONFIRMED SNA-PRM-73
 - DEALLOCATE SNA-PRM-74
 - FLUSH SNA-PRM-74
 - GET_ATTRIBUTES SNA-PRM-74
 - GET_TYPE SNA-PRM-75
 - POST_ON_RECEIPT SNA-PRM-75
 - PREPARE_TO_RECEIVE SNA-PRM-75
 - RECEIVE_AND_WAIT SNA-PRM-76
 - REQUEST_TO_SEND SNA-PRM-76
 - SEND_DATA SNA-PRM-76
 - SEND_ERROR SNA-PRM-77
 - TEST SNA-PRM-77
 - WAIT SNA-PRM-77
- architecture of the TPF system
 - premise CON-STR-59
- archives, database CON-STR-166
- archiving support, TPFCS CON-STR-166, DBS-REF-145
- area deactivation switch
 - capture switch SYS-MAC-373
 - update switch SYS-MAC-373
- area of program error PDV-PRM-74
- areas referenced by general registers PDV-PRM-75
- argc parameter to main functions APP-GDE-134
- argv parameter to main functions APP-GDE-134
- ARINCF lines
 - start lines MIG-GD1-73
 - stop lines MIG-GD1-74
 - support for MIG-GD1-73
- array collection CON-STR-163, DBS-REF-134
- array of library addresses APP-GDE-65
- AS (application server) AR-USG-1, AR-USG-5
- AS (application server)
 - definition of AR-USG-111
 - example of setting up when using assembler language with TPFAR AR-USG-79
 - illustration in remote data access AR-USG-1, AR-USG-2
 - implementation in Distributed Relational Database Architecture (DRDA) AR-USG-1
- assembler coding practices PSM-GDE-27
- assembler coding practices, program structure PSM-GDE-27
- assembler coding practices, register usage PSM-GDE-27
- assembler language
 - calling C from APP-GDE-159
 - for TPF applications AR-USG-79
 - modifications AR-USG-43
 - to offload data from TPF AR-USG-79
- assembler programs, calling from C APP-GDE-160
- assembler requirements SYS-GEN-173
- assembler to C or C++, converting APP-GDE-145
- assembler, H-level SNA-PRM-69
- assembly data
 - overview MIG-GD1-17
- assembly language interface GEN-MAC-399, GEN-MAC-401
- assembly messages
 - #SPM macro SPM-68
 - printing SPM-68
- assign a socket to an SSL structure
 - SSL API function, SSL_set_fd CLAWGR-325
- assign and reserve functions APP-GDE-270
- Assign General Tape macro GEN-MAC-385
- assign general tape to ECB CLS-UGR-541
- Assign macros GEN-MAC-19
- Assign Unit Record Devices macro GEN-MAC-517
- assigning buffers CLS-UGR-460
- associate a stream CLS-UGR-137
- associate an index with TPFCS CLS-UGR-899
- asynchronous I/O SYS-MAC-392
- asynchronous teletype communications (TTY)
 - changes MIG-GD1-257
- ATA/IATA format telegram SYS-MAC-422
- ATTAC macro GEN-MAC-34
- Attach a Detached Working Storage Block macro GEN-MAC-34
- attach a detached working storage block
 - attac_ext CLS-UGR-21
 - attac_id CLS-UGR-23
 - attac CLS-UGR-19
- ATTACH interface SNA-PRM-69
- attach shared memory CLS-UGR-476
- attach TPFAR database support structure CLS-UGR-78
- Attach TPFAR Database Support Structure GEN-MAC-134
- attached blocks
 - create an ECB GEN-MAC-107
- attaching main storage blocks APP-GDE-278
- attention messages ACF-GDE-31
- attributes, getting
 - a data stores CLS-UGR-1278
 - a users CLS-UGR-1312
 - for a class CLS-UGR-1256
 - for a collection CLS-UGR-1266
 - of a record file address CLS-UGR-1305
- attributes, StructureDASD DBS-REF-185
- attributes
 - data record CON-STR-102
 - logical device type CON-STR-102
 - record duplication CON-STR-102, CON-STR-121
 - record longevity CON-STR-103
 - record size CON-STR-102
- AUTH directive APP-GDE-174, CLAWGR-240
- AUTHID field of SYSIBM.SYSUERNAMES table
 - relationship to TPF complex name in CTKI AR-USG-22
- authorization
 - bits
 - c\$idsalo.h header file MIG-GD1-224
 - add your own MIG-GD1-223

- authorization (*continued*)
 - bits (*continued*)
 - deny authorization privileges to programs MIG-GD1-223
 - grant authorization privileges to programs MIG-GD1-223
 - run system allocator (SALO) MIG-GD1-224
 - for macro use SYS-MAC-14
 - MOVEC SYS-MAC-351
 - protect key zero
 - MOVEC SYS-MAC-350
 - relative to supervisor state CON-STR-35
 - user defined MIG-GD1-220
- authorize macro use SYS-MAC-14
- authorized program analysis report (APAR)
 - APAR PJ25375 MIG-GD2-440
- auto storage blocks GEN-MAC-28
- Automated Operations Enabler (DCSR-AUTO)
 - DCS-PRM-1
- automated patch routine (ARD)
 - activation
 - patch routine MIG-GD1-64
 - print routine MIG-GD1-64
 - support for MIG-GD1-64
 - unit record message filter MIG-GD1-64
- automatic cartridge loader feature
 - support for MIG-GD1-186, MIG-GD2-36
- automatic cartridge loader
 - filling automatically SYS-GEN-55
- automatic dump option
 - 3705 communications control unit
 - status, displaying OPR-GDE-38
 - turning off OPR-GDE-36
 - turning on OPR-GDE-36
 - Z3705 DMP command OPR-GDE-38
 - Z3705 DSP command OPR-GDE-38
- automatic IPL option
 - 3705 communications control unit
 - turning off OPR-GDE-40
 - turning on OPR-GDE-40
 - Z3705 IPL command OPR-GDE-40
- automatic network routing (ANR) labels SNA-PRM-128, SNA-PRM-136
- automatic network routing (ANR) nodes SNA-PRM-127
- automatic network shutdown (ANS) value
 - changing OPR-GDE-974
 - displaying OPR-GDE-974
 - ZNKEY command OPR-GDE-974
- automatic tape mounting GIM-27
- automatic tape mounting
 - description OPR-GDE-19
- automation program
 - command impact MIG-GD1-261
- auxiliary functions, TPFCS APP-GDE-105
- auxiliary load
 - offline input INS-PRM-342
- auxiliary loader GIM-24, INS-PRM-341
- auxiliary loader (TLDR)
 - #PVRx record types MIG-GD1-207
 - activate MIG-GD1-83
 - assembly data MIG-GD1-17

- auxiliary loader (TLDR) (*continued*)
 - changes MIG-GD1-229
 - general data set (GDS) MIG-GD1-266
 - multiple TPF images MIG-GD1-266
 - overview MIG-GD1-17
 - program versions MIG-GD1-17
- auxiliary loader
 - activating OPR-GDE-1362
 - ZTPLD command OPR-GDE-1362
- availability GIM-2
- AWARE parameter
 - RSC statement ACF-GDE-44
- AX.25 NCP definition
 - pacing SNA-PRM-240
- AX.25 Support SNA-PRM-2, SNA-PRM-45

B

- back event SPM-PRM-62
- back out a queue CLS-UGR-333
- back-end processor GIM-5
- BACKC MSP-PRM-16
- BACKC macro APP-GDE-23, APP-GDE-227, GEN-MAC-36
- BACKC macro
 - data collection for SYS-MAC-24
- backspace general tape and wait CLS-UGR-542
- Backspace General Tape and Wait macro
 - GEN-MAC-387
- backup record CON-STR-102, CON-STR-121
- backup release record global
 - ZRREC BACKUP command OPR-GDE-1233
- bag collection CON-STR-163, DBS-REF-134
- balancing workload with movable VIPAs CLAWGR-69
- band number CON-STR-107, SYS-GEN-292
- base register for multiple dsects GEN-MAC-130
- basic communications support SYS-GEN-123
- basic encoding rules (BER) and SNMP CLAWGR-91
- basic functions APP-GDE-257, APP-GDE-268
- basic message switching package DCS-PRM-153
- basic message switching package
 - description DCS-PRM-153
 - external input and output DCS-PRM-157
 - internally activated processes DCS-PRM-158
- basic subsystem PDV-PRM-37
- basic subsystem (BSS) CON-STR-130, SYS-GEN-9
- basic subsystem (BSS)
 - definition SYS-GEN-9
 - operation of system CON-STR-135
- BBEWP macro SYS-MAC-104
- BBSAT macro SYS-GEN-208
- BBWRT macro SYS-MAC-108
- begin a global transaction CLS-UGR-647
- begin activity on a CLAW logical link request
 - CLAWGR-390
- BEGIN macro APP-GDE-25, GEN-MAC-37
- begin transaction APP-GDE-89, CON-STR-12
- benchmark message CON-STR-13
- benefits of TPFCS CON-STR-159
- BER encoding of SNMP variables CLS-UGR-632
- binary large object (BLOB) collection CON-STR-163

- binary synchronous communication (BSC)
 - CON-STR-175, CON-STR-186, SYS-GEN-8
- binary synchronous communication (BSC)
 - alter
 - CCP restart/shutdown polling controls
 - MIG-GD1-72
 - multipoint line slow pool interval MIG-GD1-72
 - multipoint timeout interval MIG-GD1-72
 - priority MIG-GD1-72
 - send limit MIG-GD1-72
 - changing CCP polling controls for OPR-GDE-676
 - changing line priority OPR-GDE-679
 - changing send limit OPR-GDE-680
 - changing the slow poll interval OPR-GDE-683
 - display line status MIG-GD1-72
 - displaying status OPR-GDE-687
 - invalidate a multipoint line station MIG-GD1-74
 - multipoint line station
 - invalidating OPR-GDE-703
 - validating OPR-GDE-704
 - start a BSC online test MIG-GD1-64
 - start lines MIG-GD1-73
 - starting online test for OPR-GDE-108
 - stop lines MIG-GD1-74
 - use MIG-GD1-199, MIG-GD1-258, MIG-GD2-49
 - validate a multipoint link station MIG-GD1-74
 - validate lines MIG-GD1-74
 - validating OPR-GDE-712
 - ZBOLT command OPR-GDE-108
 - ZLACL command OPR-GDE-676
 - ZLAPR command OPR-GDE-679
 - ZLASL command OPR-GDE-680
 - ZLASP command OPR-GDE-683
 - ZLDLS command OPR-GDE-687
 - ZLTOF command OPR-GDE-703
 - ZLTON command OPR-GDE-704
 - ZLVAL command OPR-GDE-712
- binary
 - #COND macro SPM-37
 - #CONP macro SPM-41
 - #CONS macro SPM-44
 - #CONT macro SPM-46
 - #CONX macro SPM-48
 - converting to character binary SPM-46
 - converting to character decimal SPM-37, SPM-44
 - converting to character hexadecimal SPM-48
 - converting to character hexadecimal (EBCDIC)
 - SPM-41
 - files CLS-UGR-199
- BIND SNA-PRM-99
- bind (SNA command) SNA-PRM-22
- bind a local name to the socket
 - socket API function, bind CLAWGR-152
- bind command processing
 - relationship to input buffer size SNA-PRM-32
- bind file (DB2) AR-USG-32
- bind file (DB2)
 - package AR-USG-35
- BIND Images for TPF Supported Secondary Logical Units SNA-PRM-283
- bind process (DB2) AR-USG-32
- bind process (DB2)
 - package AR-USG-35
- bind
 - definition of AR-USG-111
- BKD tapes OPR-GDE-18
- BKDX record initialization SYS-MAC-306
- BLOB collection CON-STR-163, DBS-REF-134
- block GEN-MAC-224
- block address
 - address
 - get storage GEN-MAC-230
 - get SYS-MAC-48
 - how to validate MIG-GD1-310
- block checking mode GIM-28, MSP-PRM-22
- block checking mode
 - debug MIG-GD1-278, MIG-GD1-293
 - debug tool MIG-GD1-299
 - diagnostic tool MIG-GD1-9
 - migration aid MIG-GD1-15
 - overview MIG-GD1-9, MIG-GD1-293, MIG-GD1-299
 - performance considerations MIG-GD1-278
 - problem determination MIG-GD1-293
 - turn off MIG-GD1-278, MIG-GD1-300
 - turn on MIG-GD1-278, MIG-GD1-300
 - ZSTRC command MIG-GD1-295, MIG-GD1-300
- block query method for using TPFAR AR-USG-8
- block query method for using TPFAR
 - illustration of AR-USG-8
- block size design criteria SYS-GEN-42
- block size limits in TPF APP-GDE-142
- block size rations, cache DBS-REF-43
- block size ratios, cache DBS-REF-48
- block size, standard CON-STR-74
- block type CON-STR-74
- block types supported SYS-MAC-500
- block
 - address
 - get available I/O SYS-MAC-42
 - validate GEN-MAC-528
 - change size GEN-MAC-314
 - common MIG-GD1-12
 - get size SYS-MAC-376
 - get storage GEN-MAC-248
 - get working storage GEN-MAC-244
 - getting a CLAW block SYS-MAC-255
 - getting a coupling facility block SYS-MAC-254
 - overview MIG-GD1-12
 - release storage GEN-MAC-224, SYS-MAC-64
 - release system work SYS-MAC-79
 - releasing a CLAW block SYS-MAC-397
 - releasing a coupling facility block SYS-MAC-396
 - reserve storage GEN-MAC-303
 - return storage SYS-MAC-68
 - standard core MIG-GD1-12
 - type and size
 - get SYS-MAC-500
 - types
 - user-defined GEN-MAC-246
 - unhook GEN-MAC-512
- blocked conditions SPM-PRM-26

- blocked tapes
 - controlling OPR-GDE-307
 - displaying OPR-GDE-303, OPR-GDE-307
 - ZDEBB command OPR-GDE-303
 - ZDEBE command OPR-GDE-307
- blocking data elements MPI-PRM-19
- blocking mode, socket
 - wait for data CLAWGR-121
- blocks (TPFAR), working storage AR-USG-30
- blocks
 - for coupling facility support DBS-REF-248
- BMP0 tables PDV-PRM-66
- BNN (Boundary Network Node) SNA-PRM-29
- book
 - overview of the TPF 4.1 library MIG-GD1-315
- Boolean connectors
 - between groups of tests SPM-13
 - between tests SPM-13
 - condensed forms SPM-24
 - examples SPM-26
 - rules SPM-24
 - sequence of evaluation
 - between groups SPM-25
 - in a group SPM-24
- Boolean error handling APP-GDE-103
- bootstrap data set (BSDS) of DB2 AR-USG-15, AR-USG-18, AR-USG-21
- boundary alignment
 - data macros, converting APP-GDE-145
- Boundary Network Node (BNN) SNA-PRM-29
- BPKDC GEN-MAC-56
- BPKDC macro GEN-MAC-40
- BPPSC macro GEN-MAC-56
- Bracket Support SNA-PRM-250
- branch trace GIM-26
- branch trace facility GIM-26
- branch trace facility
 - overview MIG-GD1-9, MIG-GD1-10
- branch trace table PDV-PRM-92
- breakpoints
 - customizing trace information for C function trace PDV-PRM-137
- browse support, APIs CLS-UGR-1223
- browse support, ZBROW command DBS-REF-148
- browse support, ZBROW commands CON-STR-168
- browser dictionary
 - getting the PID CLS-UGR-1254
 - removing the element from CLS-UGR-1332
 - replacing the element from CLS-UGR-1226
 - retrieving the element CLS-UGR-1224
 - storing the element in CLS-UGR-1228
- browser service functions
 - T02_atBrowseKey CLS-UGR-1224
 - T02_atBrowseKeyPut CLS-UGR-1226
 - T02_atBrowseNewKeyPut CLS-UGR-1228
 - T02_changeDD CLS-UGR-1230
 - T02_changeDS CLS-UGR-1232
 - T02_convertClassName CLS-UGR-1234
 - T02_convertMethodName CLS-UGR-1236
 - T02_createDD CLS-UGR-1238
 - T02_createDS CLS-UGR-1240
- browser service functions *(continued)*
 - T02_createDSwithOptions CLS-UGR-1242
 - T02_createPIDinventoryKey CLS-UGR-1244
 - T02_defineBrowseNameForPID CLS-UGR-1246
 - T02_deleteBrowseName CLS-UGR-1248
 - T02_deleteDD CLS-UGR-1250
 - T02_deleteDS CLS-UGR-1252
 - T02_getBrowseDictPID CLS-UGR-1254
 - T02_getClassAttributes CLS-UGR-1256
 - T02_getClassDocumentation CLS-UGR-1258
 - T02_getClassInfo CLS-UGR-1260
 - T02_getClassNames CLS-UGR-1262
 - T02_getClassTree CLS-UGR-1264
 - T02_getCollectionAttributes CLS-UGR-1266
 - T02_getCollectionName CLS-UGR-1268
 - T02_getCollectionParts CLS-UGR-1270
 - T02_getCreateTime CLS-UGR-1272
 - T02_getDDAttributes CLS-UGR-1274
 - T02_getDirectoryForRRN CLS-UGR-1276
 - T02_getDSAttributes CLS-UGR-1278, CLS-UGR-1337
 - T02_getDSdictPID CLS-UGR-1212
 - T02_getDSnameForPID CLS-UGR-1280
 - T02_getListDDnames CLS-UGR-1283
 - T02_getListDScollections CLS-UGR-1285
 - T02_getListDSnames CLS-UGR-1287
 - T02_getListUsers CLS-UGR-1289
 - T02_getMethodDocumentation CLS-UGR-1291
 - T02_getMethodNames CLS-UGR-1293
 - T02_getNumberOfRecords CLS-UGR-1295
 - T02_getPIDforBrowseName CLS-UGR-1299
 - T02_getPIDinventoryEntry CLS-UGR-1301
 - T02_getPIDinventoryPID CLS-UGR-1303
 - T02_getRecordAttributes CLS-UGR-1305
 - T02_getTPFDictPID CLS-UGR-1214
 - T02_getUserAttributes CLS-UGR-1312
 - T02_isDDdefined CLS-UGR-1314
 - T02_isExtended CLS-UGR-1316
 - T02_isTemp CLS-UGR-1070
 - T02_migrateCollection CLS-UGR-1318
 - T02_migrateDS CLS-UGR-1320
 - T02_reclaimPID CLS-UGR-1322
 - T02_recoupCollection CLS-UGR-1325
 - T02_recreatedS CLS-UGR-1330
 - T02_removeBrowseKey CLS-UGR-1332
 - T02_restart CLS-UGR-1334
 - T02_setGetTextDump CLS-UGR-1335
 - T02_taskDispatch CLS-UGR-1339
 - T02_validateCollection CLS-UGR-1340
- BRSTR macro SYS-MAC-113
- BSAVE macro SYS-MAC-115
- BSC (binary synchronous communication) SYS-GEN-8
- BSC input macros SYS-GEN-128
- BSC message SYS-MAC-422
- BSC support SYS-GEN-123
- BSCQC macro SYS-MAC-117
- BSDS (bootstrap data set) of DB2 AR-USG-15, AR-USG-18, AR-USG-21
- BSNCT macro SYS-GEN-210
- BSTA06 PDV-PRM-30
- BSTAK macro SYS-MAC-118

- buffer header APP-GDE-106
- buffer ratio DBS-REF-39
- buffer reuse threshold value DBS-REF-39
- buffer sizes, send and receive CLAWGR-80
- buffer, data CLS-UGR-859
- buffer
 - assigning CLS-UGR-460
 - flushing CLS-UGR-144
 - format and print data CLS-UGR-682
- buffers
 - 37x5 devices
 - input buffers OPR-GDE-978, OPR-GDE-981
 - CTC link
 - input buffers OPR-GDE-974
 - output buffers OPR-GDE-974
 - flush a record from VFA SYS-MAC-241, SYS-MAC-246
 - ZNKEY command OPR-GDE-974, OPR-GDE-978, OPR-GDE-981
- Build Selective Memory Dump Table macro SYS-MAC-289
- Build Standardized Scan Tables macro GEN-MAC-70
- building a FACE table SYS-GEN-187
- bulk data transfer method for using TPFAR AR-USG-6
- bulk data transfer method for using TPFAR
 - illustration of AR-USG-7
- BXDx records SYS-MAC-264
- BXx tapes OPR-GDE-18
- bypass rebuild of rollin directories
 - ZRECP NOREBUILD command OPR-GDE-1171
- bypass the first recoup rollin
 - ZRECP IGNORE command OPR-GDE-1167
- bypass, BP for database reorganization DBS-REF-93
- byte order conversion
 - integer CLAWGR-120

C

- C compiler
 - requirements for the TPF 4.1 system MIG-GD1-224
- C function libraries APP-GDE-72
- C function trace INS-PRM-98, SYS-MAC-221
- C function trace environment
 - customizing PDV-PRM-151
 - elements of PDV-PRM-133
- C function trace information for an ECB SYS-MAC-431
- C function trace output
 - description of PDV-PRM-138
 - extended output PDV-PRM-138
 - format of output PDV-PRM-138
 - samples of trace output
 - overview PDV-PRM-138
 - with other breakpoint entries PDV-PRM-149
 - with stack and static data PDV-PRM-142
 - with stack and without static data PDV-PRM-145
 - with static and without stack data PDV-PRM-147
 - without stack and static data PDV-PRM-138
 - standard output PDV-PRM-138
 - types of PDV-PRM-138
- C function trace table
 - altering the size PDV-PRM-135

- C function trace table *(continued)*
 - changes MIG-GD2-118
 - description of PDV-PRM-137
- C function trace user area
 - defining a size PDV-PRM-135
 - formatting PDV-PRM-137
 - printing PDV-PRM-137
- C function trace
 - APAR PJ21907 MIG-GD2-118
 - APAR PJ22791 MIG-GD2-118
 - API changes MIG-GD2-126
 - architecture MIG-GD2-119
 - C function trace table PDV-PRM-137
 - C function trace table changes MIG-GD2-118
 - C/C++ language MIG-GD2-119
 - CID field PDV-PRM-137
 - CINFC tags MIG-GD2-120
 - commands MIG-GD2-123
 - CONKC tags MIG-GD2-120
 - controlling traces PDV-PRM-134
 - copy members MIG-GD2-120
 - customizing trace information PDV-PRM-151
 - data collection MIG-GD2-123
 - database changes MIG-GD2-126
 - description of PDV-PRM-133
 - description of output PDV-PRM-138
 - environment PDV-PRM-133
 - extended output PDV-PRM-138
 - feature changes MIG-GD2-126
 - fixed file records MIG-GD2-121
 - format of output PDV-PRM-138
 - functional changes MIG-GD2-123
 - functional overview MIG-GD2-118
 - hardware MIG-GD2-119
 - host system changes MIG-GD2-125
 - IBM C/C++ for MVS/ESA Version 3 Release 1
 - compiler function entries MIG-GD2-118
 - installation validation MIG-GD2-126
 - interfaces MIG-GD2-119
 - ISO-C users MIG-GD2-118
 - loading process MIG-GD2-125
 - macros MIG-GD2-121
 - migration considerations MIG-GD2-118
 - migration scenarios MIG-GD2-126
 - offline messages MIG-GD2-124
 - online load process MIG-GD2-125
 - online messages MIG-GD2-124
 - operating environment requirements MIG-GD2-119
 - operational changes MIG-GD2-123
 - overview MIG-GD2-8, MIG-GD2-118
 - performance changes MIG-GD2-124
 - planning information MIG-GD2-119
 - postprocessor control program (PPCP) changes
 - MIG-GD2-118
 - prerequisite APARs MIG-GD2-118
 - productivity increases MIG-GD2-118
 - publication changes MIG-GD2-125
 - segments MIG-GD2-122
 - SIP changes MIG-GD2-125
 - software (programming requirements) MIG-GD2-119
 - starting PDV-PRM-133

- C function trace *(continued)*
 - stopping PDV-PRM-133
 - storage changes MIG-GD2-125
 - storage considerations MIG-GD2-125
 - summary of commands PDV-PRM-134
 - summary of macro options PDV-PRM-134
 - system equates MIG-GD2-123
 - system error processing PDV-PRM-136
 - system errors MIG-GD2-124
 - system generation changes MIG-GD2-125
 - trace area initialization INS-PRM-105
 - trace environment customization INS-PRM-100
 - trace user data INS-PRM-98
 - tuning changes MIG-GD2-124
 - user area PDV-PRM-135
 - user exits MIG-GD2-123
 - using the SETOC macro PDV-PRM-152
- C functions, using in C programs CON-STR-151
- C headers - CHECKOUT option PSM-GDE-25
- C headers - INFO option PSM-GDE-25
- C language for TPF applications AR-USG-32, AR-USG-45
- C language for TPF applications
 - example of displaying data AR-USG-70
 - example of inserting data AR-USG-49
 - example of removing data AR-USG-56
 - example of updating data AR-USG-61
 - modifications AR-USG-42
- C language function
 - See TPF API functions
- C language migration GEN-MAC-399
- C language program
 - TPF file system functions CLS-UGR-1405
- C language programs
 - allocating in 31-bit mode INS-PRM-403
- C language real-time table (CRT) SYS-GEN-179
- C language support, customizing APP-GDE-301
- C language support, ISO-C GIM-24
- C language table SYS-GEN-179
- C language user real-time table (CUR) SYS-GEN-179
- C load module build tool (CBLD)
 - purpose APP-GDE-329
- C load module
 - displaying link map for OPR-GDE-336
 - ZDMAP command OPR-GDE-336
- C main() support
 - API changes MIG-GD2-322
 - architecture MIG-GD2-316
 - C/C++ language MIG-GD2-316
 - CINFC tags MIG-GD2-318
 - commands MIG-GD2-321
 - CONKC tags MIG-GD2-318
 - copy members MIG-GD2-319
 - database changes MIG-GD2-322
 - feature changes MIG-GD2-322
 - fixed file records MIG-GD2-319
 - functional changes MIG-GD2-321
 - functional overview MIG-GD2-316
 - host system changes MIG-GD2-322
 - installation validation MIG-GD2-322
 - interfaces MIG-GD2-316
- C main() support *(continued)*
 - ISO-C additions MIG-GD2-316
 - loading process MIG-GD2-322
 - macros MIG-GD2-319
 - migration scenarios MIG-GD2-323
 - offline messages MIG-GD2-321
 - online messages MIG-GD2-321
 - online system load MIG-GD2-322
 - operating environment requirements MIG-GD2-316
 - operational changes MIG-GD2-321
 - overview MIG-GD2-316
 - performance changes MIG-GD2-322
 - planning information MIG-GD2-316
 - prerequisite APARs MIG-GD2-316
 - publication changes MIG-GD2-322
 - segments MIG-GD2-321
 - SIP changes MIG-GD2-322
 - storage changes MIG-GD2-322
 - storage considerations MIG-GD2-322
 - system equates MIG-GD2-321
 - system errors MIG-GD2-321
 - system generation changes MIG-GD2-322
 - tuning changes MIG-GD2-322
 - user exits MIG-GD2-321
- C parameter list APP-GDE-159
- C parameter list
 - diagrams APP-GDE-159, APP-GDE-160
- C parser utility, IPRSE CLS-UGR-1447
- C program tracing
 - disabling PDV-PRM-135
 - enabling PDV-PRM-135
 - SETTC macro PDV-PRM-135
- C programs, calling from assembler APP-GDE-159
- C run-time library
 - system allocator (SALO) MIG-GD1-224
- C standards PSM-GDE-25
- C trace environment customization (UCCCDEB) INS-PRM-100
- C trace environment initialization (UCCCEXP) INS-PRM-105
- C trace user data (UCCCTRC) INS-PRM-98
- C-language SNA-PRM-69
- C-type program errors PSM-GDE-13
- C/370 requirements SYS-GEN-173
- C/C++ language register environment PDV-PRM-76
- C++ class library support
 - API changes MIG-GD2-591
 - architecture MIG-GD2-588
 - benefits MIG-GD2-588
 - C/C++ language MIG-GD2-588
 - CINFC tags MIG-GD2-590
 - CONKC tags MIG-GD2-590
 - copy members MIG-GD2-590
 - database changes MIG-GD2-591
 - feature changes MIG-GD2-591
 - fixed file records MIG-GD2-590
 - for Application Support Class Library MIG-GD2-8
 - functional changes MIG-GD2-591
 - functional overview MIG-GD2-587
 - host system changes MIG-GD2-591
 - installation validation MIG-GD2-592

C++ class library support *(continued)*

- interfaces MIG-GD2-588
- loading process MIG-GD2-591
- macros MIG-GD2-590
- migration scenarios MIG-GD2-592
- online system load MIG-GD2-591
- open systems infrastructure relationship
MIG-GD2-592
- operating environment requirements MIG-GD2-588
- operational changes MIG-GD2-591
- overview MIG-GD2-7, MIG-GD2-587
- performance changes MIG-GD2-591
- planning information MIG-GD2-588
- prerequisite APARs MIG-GD2-587
- publication changes MIG-GD2-591
- segments MIG-GD2-591
- SIP changes MIG-GD2-591
- software (programming requirements) MIG-GD2-588
- storage changes MIG-GD2-591
- storage considerations MIG-GD2-591
- system equates MIG-GD2-591
- system generation changes MIG-GD2-591
- tuning changes MIG-GD2-591
- user exits MIG-GD2-591

C++ language source table (CPP) SYS-GEN-180

C++ standards PSM-GDE-25

C++ support, customizing APP-GDE-301

C++ support

- API changes MIG-GD2-367
- Application Support Class Library MIG-GD2-8
- architecture MIG-GD2-358
- C/C++ language MIG-GD2-359
- C++ class library support MIG-GD2-7,
MIG-GD2-587
- CINFC tags MIG-GD2-361
- commands MIG-GD2-365
- CONKC tags MIG-GD2-361
- copy members MIG-GD2-361
- database changes MIG-GD2-367
- feature changes MIG-GD2-367
- fixed file records MIG-GD2-361
- functional changes MIG-GD2-365
- functional overview MIG-GD2-358
- hardware MIG-GD2-358
- host system changes MIG-GD2-367
- installation validation MIG-GD2-367
- interfaces MIG-GD2-359
- loading process MIG-GD2-366
- macros MIG-GD2-361
- migration scenarios MIG-GD2-367
- offline messages MIG-GD2-365
- online messages MIG-GD2-365
- online system load MIG-GD2-366
- operating environment requirements MIG-GD2-358
- operational changes MIG-GD2-365
- overview MIG-GD2-8, MIG-GD2-358
- performance changes MIG-GD2-366
- planning information MIG-GD2-358
- prerequisite APARs MIG-GD2-358
- publication changes MIG-GD2-367
- segments MIG-GD2-363

C++ support *(continued)*

- SIP changes MIG-GD2-366
- software (programming requirements) MIG-GD2-359
- storage changes MIG-GD2-366
- storage considerations MIG-GD2-366
- system equates MIG-GD2-364
- system errors MIG-GD2-365
- system generation changes MIG-GD2-366
- tuning changes MIG-GD2-366
- user exits MIG-GD2-364

C000

- description APP-GDE-339
- updating APP-GDE-339

cabling for synchronization SYS-GEN-227

cache fast writes, cache DBS-REF-44

cache

- allocation
 - displaying OPR-GDE-167
 - implementing changes OPR-GDE-169
 - specifying OPR-GDE-164
- block size ratio DBS-REF-43
- block size ratios DBS-REF-48
- commands DBS-REF-43, DBS-REF-48,
DBS-REF-51
- control unit status DBS-REF-43, DBS-REF-49
- data collection DBS-REF-42
- data collection/data reduction DBS-REF-47
- data reduction DBS-REF-42
- destaging fast write data OPR-GDE-172
- disabling fast write functions DBS-REF-48,
OPR-GDE-172
- enabling DBS-REF-49
- enabling functions OPR-GDE-171
- hardware DBS-REF-41, DBS-REF-44
- I/O queue threshold value DBS-REF-49
- initializer DBS-REF-46
- introduction DBS-REF-41
- IPL DBS-REF-42, DBS-REF-46
- logical record cache summary report SPM-PRM-29
- map device DBS-REF-49
- modes, operation DBS-REF-41, DBS-REF-44
- module up and down processing DBS-REF-46
- operating mode DBS-REF-49
- operating mode
 - setting OPR-GDE-179
- operation modes DBS-REF-41, DBS-REF-44
- pinned data DBS-REF-49
- pinned data
 - discarding OPR-GDE-175
 - displaying OPR-GDE-177
- processing DBS-REF-42, DBS-REF-46
- processing differences DBS-REF-49
- programmable options DBS-REF-44
- record cache subsystem (RCS) ID
 - displaying OPR-GDE-174
- record caching attributes DBS-REF-48
- recovery DBS-REF-42, DBS-REF-46
- restrictions DBS-REF-43, DBS-REF-47
- retry DBS-REF-42
- RIAT DBS-REF-45

cache (*continued*)

- status information
 - displaying OPR-GDE-182
- status, control unit DBS-REF-43, DBS-REF-49
- threshold value
 - changing OPR-GDE-184
 - displaying OPR-GDE-184
- up/down processing DBS-REF-42
- weighted values DBS-REF-43
- ZBUFC ALLOCATE OPR-GDE-164
- ZBUFC ALLOCATE DISPLAY OPR-GDE-167
- ZBUFC ALLOCATE IMLEMNT OPR-GDE-169
- ZBUFC ENABLE command OPR-GDE-171
- ZBUFC FILE command OPR-GDE-172
- ZBUFC MAP command OPR-GDE-174
- ZBUFC PINNED DISCARD OPR-GDE-175
- ZBUFC PINNED DISPLAY OPR-GDE-177
- ZBUFC SETCACHE command OPR-GDE-179
- ZBUFC STATUS command OPR-GDE-182
- ZBUFC THRESHLD command OPR-GDE-184

calculate file address CLS-UGR-589

Calculate Record Slot Number macro GEN-MAC-268

calculating an 8-byte file address GEN-MAC-193

calculation, disk time DBS-REF-69

calculation, tape time DBS-REF-70

call a program by name CLS-UGR-562

Call a Secondary Library Routine macro SYS-MAC-285

Call register assumptions PDV-PRM-76

CALL_CONFIRM command

- received from NPSI/GATE SNA-PRM-334

CALL_OUT command

- TPF initiated to NPSI/GATE SNA-PRM-332

CALL_REQUEST command

- received from NPSI/GATE SNA-PRM-330

calling commands from a library function CLS-UGR-527

CALOC allocation changes GEN-MAC-314

CALOC macro GEN-MAC-57

CALOC macro

- get contiguous pieces of storage MIG-GD1-307

capture and restore keypoint

- initializing OPR-GDE-413, OPR-GDE-571
- ZFCAP CLEAR command OPR-GDE-413
- ZFRST CLEAR command OPR-GDE-571

capture and restore support DBS-REF-145

capture and restore support, TPFCS CON-STR-166

capture and restore utility

- capture function
 - adding tape devices OPR-GDE-426
 - capturing keypoints OPR-GDE-419
 - changing maximum OPR-GDE-411
 - changing number OPR-GDE-410
 - deleting tape devices OPR-GDE-426
 - displaying maximum OPR-GDE-415
 - displaying status OPR-GDE-424
 - pausing OPR-GDE-421
 - restarting OPR-GDE-422
 - starting OPR-GDE-403
 - stopping OPR-GDE-408
- exception recording
 - restoring records OPR-GDE-582
 - starting OPR-GDE-406

capture and restore utility (*continued*)

- I/O delay time factor
 - changing OPR-GDE-417
 - displaying OPR-GDE-417
- keypoint
 - initializing OPR-GDE-413, OPR-GDE-571
- record logging
 - restoring records OPR-GDE-574
 - starting OPR-GDE-418
 - stopping OPR-GDE-418
- restore function
 - adding tape devices OPR-GDE-580
 - changing number OPR-GDE-565
 - deleting tape devices OPR-GDE-580
 - displaying status OPR-GDE-578
 - pausing OPR-GDE-576
 - restarting OPR-GDE-577
 - restoring keypoints OPR-GDE-573
 - starting OPR-GDE-566
 - stopping OPR-GDE-563
- ZFCAP ABORT command OPR-GDE-408
- ZFCAP ALTER command OPR-GDE-410, OPR-GDE-565
- ZFCAP CHANGE command OPR-GDE-411
- ZFCAP CLEAR command OPR-GDE-413
- ZFCAP command OPR-GDE-403, OPR-GDE-406
- ZFCAP DISPLAY command OPR-GDE-415
- ZFCAP IOTIME command OPR-GDE-417
- ZFCAP LOG command OPR-GDE-418
- ZFCAP MISC command OPR-GDE-419
- ZFCAP PAUSE command OPR-GDE-421
- ZFCAP RESTART command OPR-GDE-422
- ZFCAP STATUS command OPR-GDE-424
- ZFCAP TAPE command OPR-GDE-426
- ZFRST ABORT command OPR-GDE-563
- ZFRST CAP command OPR-GDE-566
- ZFRST CLEAR command OPR-GDE-571
- ZFRST KPT command OPR-GDE-573
- ZFRST LOG command OPR-GDE-574
- ZFRST PAUSE command OPR-GDE-576
- ZFRST RESTART command OPR-GDE-577
- ZFRST STATUS command OPR-GDE-578
- ZFRST TAPE command OPR-GDE-580
- ZFRST XCP command OPR-GDE-582

capture and restore

- add utility names MIG-GD1-80
- assign utility resource ownership MIG-GD1-80
- capture considerations DBS-REF-64
- capture processing DBS-REF-56
- changes MIG-GD1-279, MIG-GD1-281
- conditions requiring restore DBS-REF-65
- define record types MIG-GD1-206
- delete utility names MIG-GD1-80
- description MIG-GD1-277
- display ownership MIG-GD1-80
- exception recording DBS-REF-61
- frequency of capture DBS-REF-65
- improved operations GIM-29
- keypoint capture DBS-REF-62
- load balancing MIG-GD1-279
- mode of capture DBS-REF-64

- capture and restore (*continued*)
 - multipathing GIM-29
 - overview MIG-GD1-9
 - phase 1, restore DBS-REF-62
 - phase 2, restore DBS-REF-64
 - phase 3, restore DBS-REF-64
 - processing overview DBS-REF-55
 - record logging DBS-REF-62
 - release utility resource ownership MIG-GD1-80
 - restore capture tape DBS-REF-62
 - restore considerations DBS-REF-65
 - restore exception records DBS-REF-64
 - restore keypoints DBS-REF-64
 - restore logging records DBS-REF-64
 - restore processing DBS-REF-62
 - utility multipathing MIG-GD1-9
- capture considerations DBS-REF-64
- capture keypoint 9
 - ZRDIR CAPTURE command OPR-GDE-1148
- capture package SYS-GEN-155
- capture package
 - SIP macros SYS-GEN-155
- capture processing DBS-REF-56
- capture specified collection CLS-UGR-924
- capture the pool rollin directory
 - ZRDIR CAPTURE command OPR-GDE-1148
- capture timing estimate DBS-REF-69
- capture
 - changes MIG-GD1-279
 - fixed records MIG-GD1-284
 - load balancing MIG-GD1-280
 - run on multiple modules MIG-GD1-280
 - run on single modules MIG-GD1-279
- card inputs APP-GDE-284
- card reader assignment GEN-MAC-517
- card readers
 - 2505R card reader
 - unit record status table OPR-GDE-96, OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
- 3505 card reader
 - unit record status table OPR-GDE-96, OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
- CASE macro group
 - CASE macro SPM-92
 - description of SPM-92
 - ENDC macro SPM-92
 - ENDSC macro SPM-92
 - example of SPM-93
 - SCASE macro SPM-92
- catastrophic error processing (CPSF)
 - changes MIG-GD1-234
- catastrophic error recovery MSP-PRM-44
- categories of
 - I-stream engine CON-STR-48
- category change INS-PRM-213
- cause a key path to be validated CLS-UGR-1342
- CBRW GEN-MAC-14, GEN-MAC-17, GEN-MAC-18
- CC macro GEN-MAC-59
- CCB APP-GDE-10
- CCB (conversation control block) SNA-PRM-67
- CCB ID (conversation control block identifier) SNA-PRM-67
- CCCLHR MSP-PRM-20
- CCCTIN MSP-PRM-4
- CCCTIN (control program initializer) SYS-GEN-41
- CCCTIN exit points INS-PRM-22, INS-PRM-24
- CCCTIN
 - system initialization wait states OPR-GDE-6
- CCIDC macro GEN-MAC-60
- CCP (communications control program) SNA-PRM-48
- CCP branch vector table (BVT)
 - overview MIG-GD1-259
- CCP trace commands
 - ZLTRF command OPR-GDE-705
 - ZLTRL command OPR-GDE-706
 - ZLTRN command OPR-GDE-708
- CCP
 - See communication control program
- CCPERR macro SYS-GEN-212
- CCPPOL macro SYS-GEN-214
- CCPSTA macro SYS-GEN-216
- CCSID (coded character set identifier) default for DB2
 - AR-USG-16, AR-USG-21
- Ccsid parameter of ZSQLD AR-USG-16
- CCSNAE SNA-PRM-100
- CCSONS DASD services SYS-MAC-233
- CCSTOR MSP-PRM-21
- CCTYPE parameter
 - RSC statement ACF-GDE-42
 - valid combinations ACF-GDE-54
- CCUEXT CSECT INS-PRM-3
- CDEB user exit
 - for C function trace PDV-PRM-135, PDV-PRM-136, PDV-PRM-151
- CDINIT response
 - class of service name
 - TPF/APPC parallel sessions OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- CDLC IP CCW area table CLAWGR-52
- CDLC IP CCW area table resources, defining CLAWGR-52
- CDLC IP configuration record CLAWGR-51
- CDM tapes OPR-GDE-18
- CDMP dump option code PDV-PRM-10
- CDRM resource
 - define MIG-GD1-252, MIG-GD1-254
- CDRM resources
 - defining ACF-GDE-37, ACF-GDE-38
- CDRM statement
 - cdrmname parameter ACF-GDE-39
 - CPUID parameter ACF-GDE-39
 - description of ACF-GDE-38
 - ELEMENT parameter ACF-GDE-39

CDRM statement (*continued*)
 example ACF-GDE-60
 REALNAME parameter ACF-GDE-39
 SUBAREA parameter ACF-GDE-39

cdmname parameter
 CDRM statement ACF-GDE-39

CDRSC SNA-PRM-63, SNA-PRM-64

CDRSC statement
 defining AR-USG-19
 illustration of dependency of parameters
 AR-USG-23, AR-USG-26

CDT CLAWGR-23

CE1FCn DBS-REF-19

CE1FHn DBS-REF-19

CE1FMn DBS-REF-19

CE1FRn DBS-REF-19

CE1FXn DBS-REF-19

CEBIC macro MSP-PRM-34, SYS-MAC-122

CEDM MSP-PRM-19

central processing complex (CPC) APP-GDE-1,
 APP-GDE-243, CON-STR-1, CON-STR-37,
 MPI-PRM-3

central processing complex (CPC)
 control structure CON-STR-54
 description CON-STR-37, MIG-GD1-189,
 MIG-GD2-39
 interprocessor communications facility (IPC)
 CON-STR-182
 loosely coupled multiprocessing CON-STR-49
 product features MIG-GD1-190, MIG-GD2-40
 requests for price quotations (RPQs) MIG-GD1-190,
 MIG-GD2-40

central processing unit (CPU) CON-STR-21,
 CON-STR-24

central processing unit (CPU)
 display create macro control levels MIG-GD1-67
 display loop levels MIG-GD1-67
 logical CPUs
 shared PR/SM MIG-GD2-109
 serialization CON-STR-31

central storage dumps GEN-MAC-357

CENVC macro GEN-MAC-61

CEXP user exit
 for C function trace PDV-PRM-136, PDV-PRM-151

CF asynchronous queue SYS-MAC-218

CF cache support CON-STR-50

CFCONC macro SYS-MAC-128

CFDISC macro SYS-MAC-143

CFISVC macro MSP-PRM-19, MSP-PRM-20,
 SYS-MAC-146

CFLF asynchronous queue SYS-MAC-218

CFRQC macro SYS-MAC-148

CFVCTC macro SYS-MAC-152

Chain Chase through Prefix Pages macro
 SYS-MAC-366

Chain Chase
 example SYS-MAC-270, SYS-MAC-306
 scheduler SYS-MAC-268
 through Prefix Pages macro SYS-MAC-366

chain chasing
 online file recoup MIG-GD1-283

CHAIN parameter
 RSC statement ACF-GDE-44

chain release GEN-MAC-336, INS-PRM-261

Chained and Segmented Messages SNA-PRM-248

chained file records release CLS-UGR-437

chained output message segments
 restriction
 bypassing OPR-GDE-979
 ZNKEY command OPR-GDE-979

chaining (NPSI)
 request unit (RU) SNA-PRM-31

chaining addresses APP-GDE-267

Change Addressing Mode macro SYS-MAC-347

change attributes request
 data definition OPR-GDE-1083
 ZOOBDB CHANGE command OPR-GDE-1083

change direction indicator SNA-PRM-43

change existing directory records
 ZPOOL GENERATION command OPR-GDE-1121

change global protect key macro GEN-MAC-262

change MDBF subsystem CLS-UGR-25, CLS-UGR-26

Change MDBF Subsystem/Subsystem User ID macro
 SYS-MAC-122

change MDBF subsystem
 to BSS CLS-UGR-25
 user CLS-UGR-27

change number of sessions (CNOS) work block
 SNA-PRM-68

Change Protection Key macro SYS-MAC-332

Change Reserved Storage Block Size macro
 GEN-MAC-314

change the mode of a file or directory CLS-UGR-32

Change the System Mask macro SYS-MAC-58

change to another i-stream SYS-MAC-467

change
 data store definition CLS-UGR-1232
 environment variable CLS-UGR-463
 offset of a file CLS-UGR-315

changing a data definition CLS-UGR-1230

changing an ECB's processing priority APP-GDE-227

changing the attributes of a data store CLS-UGR-1232

channel check handling MSP-PRM-44

channel check
 channel failures MIG-GD1-273
 disabled wait state codes MIG-GD1-274
 overview MIG-GD1-273
 SVP damage MIG-GD1-273
 SVP degradation MIG-GD1-273
 SVP warning MIG-GD1-273
 system recovery messages MIG-GD1-274
 thresholds MIG-GD1-273

channel contact in CTC SNA-PRM-223

channel control check (CCC) MSP-PRM-44

channel control word (CCW)
 areas
 changes MIG-GD1-260
 pointer table MIG-GD1-259
 changes MIG-GD1-230
 convert virtual addresses to real addresses
 MIG-GD1-230
 pointer table MIG-GD1-259

- channel control word (CCW) *(continued)*
 - use by I/O routines MIG-GD1-230
 - user-built MIG-GD1-230
 - user-defined device support routines MIG-GD1-230
- channel data check (CDC) MSP-PRM-44
- channel data link protocol (CDLC) CLAWGR-40
- channel directory, TPF MQSeries APP-GDE-79
- channel failure
 - resource impact MIG-GD1-273
- channel keypoint setup SYS-MAC-189
- channel path id status SPM-PRM-45
- channel subsystem CON-STR-1, CON-STR-32, CON-STR-49
- channel to channel (CTC) CON-STR-186
- channel utilization MIG-GD1-279
- channel-to-channel (CTC) MPI-PRM-4
- channel-to-channel (CTC) communication link MSP-PRM-35
- channel-to-channel (CTC) connection
 - access application program MIG-GD1-253
 - changes MIG-GD1-253
 - CTC devices MIG-GD1-18
 - definition MIG-GD1-252
 - for SNA I/O trace facility MIG-GD1-18
 - T5 nodes MIG-GD1-252
- Channel-to-Channel (CTC) link station AR-USG-19
- Channel-to-Channel (CTC) link station
 - considerations AR-USG-98
 - read buffers and SNAKEY AR-USG-98
- channel-to-channel (CTC) link
 - activating OPR-GDE-964
 - active
 - list of OPR-GDE-985
 - maximum number OPR-GDE-978
 - adding OPR-GDE-953
 - automatic network shutdown (ANS) value
 - changing OPR-GDE-974
 - displaying OPR-GDE-974
 - changing OPR-GDE-956
 - creating OPR-GDE-953
 - cross-domain resource manager (CDRM) resource
 - displaying OPR-GDE-917
 - CTC headers
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - deactivating OPR-GDE-969
 - defining OPR-GDE-953, OPR-GDE-1002
 - deleting OPR-GDE-1002
 - explicit routing information
 - displaying OPR-GDE-972
 - input buffers
 - number defined OPR-GDE-974
 - list of
 - displaying OPR-GDE-968
 - logical unit (LU)
 - displaying OPR-GDE-946
 - network command status table
 - displaying OPR-GDE-997
 - network control commands
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
- channel-to-channel (CTC) link *(continued)*
 - node name
 - displaying OPR-GDE-985
 - output buffers
 - number defined OPR-GDE-974
 - path information unit (PIU)
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - polling
 - starting OPR-GDE-1019
 - stopping OPR-GDE-1020
 - redefining OPR-GDE-956
 - resource definitions
 - changing OPR-GDE-956
 - creating OPR-GDE-953
 - resource ID
 - displaying OPR-GDE-958
 - resource name
 - changing OPR-GDE-956
 - defining OPR-GDE-953
 - RNH tables
 - displaying OPR-GDE-958
 - RNHET address
 - displaying OPR-GDE-958
 - RNHPT address
 - displaying OPR-GDE-958
 - routing information
 - explicit OPR-GDE-972
 - virtual OPR-GDE-972
 - virtual pacing OPR-GDE-972
 - RVT address
 - displaying OPR-GDE-958
 - RVT entry
 - displaying OPR-GDE-1038
 - initializing OPR-GDE-1042
 - status
 - displaying OPR-GDE-917, OPR-GDE-968
 - subarea
 - changing OPR-GDE-956
 - defining OPR-GDE-953
 - symbolic device address
 - displaying OPR-GDE-917, OPR-GDE-985
 - TG=ANY OPR-GDE-974
 - tracing OPR-GDE-1052
 - transmission groups, any OPR-GDE-974
 - virtual route (VR) pacing requests
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - virtual route (VR) pacing responses
 - common blocks required OPR-GDE-975
 - displaying OPR-GDE-1012
 - entry control blocks (ECBs) required OPR-GDE-975
 - frame blocks required OPR-GDE-976
 - input/output blocks (IOBs) required OPR-GDE-976
 - system work blocks (SWBs) required OPR-GDE-977
 - tracing OPR-GDE-1052
 - virtual route input list timeout value
 - defining OPR-GDE-953

- channel-to-channel (CTC) link *(continued)*
 - virtual route pacing information
 - displaying OPR-GDE-972, OPR-GDE-1012
 - tracing OPR-GDE-1052
 - virtual route pacing window
 - defining OPR-GDE-953
 - virtual route timeout value
 - defining OPR-GDE-953
 - virtual routing information
 - displaying OPR-GDE-972
 - ZNALS command OPR-GDE-917
 - ZNDLU command OPR-GDE-946
 - ZNDYN ADD command OPR-GDE-953
 - ZNDYN CHANGE command OPR-GDE-956
 - ZNDYN DISPLAY command OPR-GDE-958
 - ZNETW ACT command OPR-GDE-964
 - ZNETW DISPLAY command OPR-GDE-968
 - ZNETW INACT command OPR-GDE-969
 - ZNETW ROUTE command OPR-GDE-972
 - ZNKEY command OPR-GDE-974, OPR-GDE-975, OPR-GDE-976, OPR-GDE-977, OPR-GDE-978
 - ZNMON command OPR-GDE-985
 - ZNNCS command OPR-GDE-997
 - ZNOPL LOAD command OPR-GDE-1002
 - ZNPIU command OPR-GDE-1012
 - ZNPOL START command OPR-GDE-1019
 - ZNPOL STOP command OPR-GDE-1020
 - ZNRVT command OPR-GDE-1038
 - ZNRVT INITIALIZE command OPR-GDE-1042
 - ZNTRP command OPR-GDE-1052
- Channel-to-Channel (CTC) priming SNA-PRM-222
- channel-to-channel (CTC)
 - activation of virtual route SNA-PRM-229
 - channel contact SNA-PRM-223
 - considerations with FID4 SNA-PRM-222, SNA-PRM-223
 - considerations with System network Interconnection (SNI) SNA-PRM-234
 - data transfer SNA-PRM-11
 - deactivation of virtual route SNA-PRM-230
 - pre-channel contact/priming SNA-PRM-222
 - slowdown SNA-PRM-277
- channel-to-channel connection MPI-PRM-3
- channel
 - changing definition for OPR-GDE-837
 - defining OPR-GDE-856, OPR-GDE-857, OPR-GDE-859
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - displaying status of OPR-GDE-881
 - resetting OPR-GDE-902
 - resolving OPR-GDE-903
 - starting OPR-GDE-905
 - stopping OPR-GDE-907
 - ZMQSC ALT CHL command OPR-GDE-837
 - ZMQSC CLEAR QL command OPR-GDE-856
 - ZMQSC DBREBUILD command OPR-GDE-857
 - ZMQSC DEF CHL command OPR-GDE-859
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - ZMQSC RESET command OPR-GDE-902
- channel *(continued)*
 - ZMQSC RESOLVE command OPR-GDE-903
 - ZMQSC START command OPR-GDE-905
 - ZMQSC STOP command OPR-GDE-907
- channels, TPF MQSeries APP-GDE-83
- character decimal
 - #CONB macro SPM-35
 - converting to binary SPM-35
- character hexadecimal
 - #CONH macro SPM-39
 - converting to binary SPM-39
- character set PSM-GDE-3
- character sets APP-GDE-314
- character special file
 - creating OPR-GDE-503
 - ZFILE mknod command OPR-GDE-503
- character
 - reading with fgetc CLS-UGR-146
 - reading with getc and getchar CLS-UGR-246
 - ungetting CLS-UGR-664
 - writing with fputc CLS-UGR-209
 - writing with putc and putchar CLS-UGR-400
- characteristics of file addresses GEN-MAC-366, SYS-MAC-226
- characteristics, of TPFCS collections CON-STR-161
- characteristics, pool file DBS-REF-22
- CHDD SNA-PRM-61, SNA-PRM-100
- check a list notification vector SYS-MAC-152
- check available system resources CLS-UGR-306, CLS-UGR-308, GEN-MAC-294
- check characters
 - cyclic SNA-PRM-46
 - synchronization SNA-PRM-46
- check for request to be completed GEN-MAC-531
- Check or Modify a List Notification Vector macro SYS-MAC-152
- Check Symbolic Line Type macro SYS-MAC-383
- CHECKOUT option for C headers PSM-GDE-25
- checkpoint, TPF MQSeries APP-GDE-87
- child process
 - effective group ID APP-GDE-168
 - effective user ID APP-GDE-168
 - general discussion APP-GDE-168
 - process inheritance APP-GDE-168
 - saved set-group-ID APP-GDE-168
 - saved set-user-ID APP-GDE-168
- child server code, sample
 - using activate_on_receipt function CLAWGR-369
- CHPID SYS-GEN-87
- CHPID accesses percentage SPM-PRM-45
- CHPID reports. SPM-PRM-45
- CIAA SNA-PRM-46
- CICS SNA-PRM-26, SNA-PRM-66
- CICS compatibility SNA-PRM-19
- CICS Relay Application Considerations SNA-PRM-29
- CICS
 - 3790 full function LU support SNA-PRM-29
- CID field
 - description of for C function trace PDV-PRM-137
- CIDP MSP-PRM-43
- CIFRC macro GEN-MAC-64, SNA-PRM-251

- CIMR (core image restart area) components
 - changing INS-PRM-322
- CIMR component size SYS-GEN-330
- CINFC address option
 - overview MIG-GD1-15
 - use by the CT99 user exit MIG-GD1-232
- CINFC label
 - changes MIG-GD1-229
 - CINFC address option MIG-GD1-232
 - define MIG-GD1-229, MIG-GD1-232
 - IBM CINFC labels MIG-GD1-232
 - initialize MIG-GD1-229, MIG-GD1-232
- CINFC macro GEN-MAC-66
- CINFC table
 - allocate space MIG-GD1-232
 - overview MIG-GD1-15
- CINFC tags GEN-MAC-67
- CIO SYS-MAC-323
- CIO I/O processing SYS-MAC-405
- CIO processing suspend SYS-MAC-457
- CIO resume SYS-MAC-405
- CIO SC macro SYS-MAC-159
- CIOUC macro SYS-MAC-161
- cipher program interface CLS-UGR-37
- Cipher Program Interface macro GEN-MAC-64
- circular waiting CON-STR-23
- city summary SPM-PRM-86
- city summary
 - message SPM-PRM-72
 - report SPM-PRM-71
- CK2SN SNA-PRM-61
- CL04 APP-GDE-312, APP-GDE-313
- class library support APP-GDE-74
- class name information
 - displaying OPR-GDE-116
 - ZBROW CLASS command OPR-GDE-116
- class name, getting a collections CLS-UGR-1268
- class of service (COS) SNA-PRM-227
- Class of Service (COS) SNA-PRM-239
- CLASS value
 - core resident programs MIG-GD1-219
 - file resident programs MIG-GD1-219
- CLASSC macro DBS-REF-161
- CLAW activity on subchannel pair, terminate
 - CLAWGR-388
- CLAW adapters
 - current value
 - displaying OPR-GDE-973
 - ZNKEY command OPR-GDE-973
- CLAW API Linkage macro SYS-MAC-164
- CLAW block type SYS-MAC-255
- CLAW data trace function
 - starting OPR-GDE-220
 - status of
 - displaying OPR-GDE-220
 - stopping OPR-GDE-220
 - writing to tape OPR-GDE-220
 - ZCLAW TRACE command OPR-GDE-220
- CLAW device support
 - API linkage SYS-MAC-164
 - code generation SYS-MAC-164
- CLAW device support *(continued)*
 - get CLAW block type SYS-MAC-255
 - release CLAW block type SYS-MAC-397
 - write a CLAW error log SYS-MAC-477
- CLAW device table (CDT) CLAWGR-23
- CLAW device table (CDT)
 - CLAWADP value CLAWGR-23
 - updated CLAWGR-23
- CLAW file descriptors
 - current value
 - displaying OPR-GDE-973
 - ZNKEY command OPR-GDE-973
- CLAW host name
 - defining OPR-GDE-209
 - displaying OPR-GDE-213
 - ZCLAW ADD command OPR-GDE-209
 - ZCLAW DISPLAY command OPR-GDE-213
- CLAW trace record SYS-MAC-477
- CLAW workstation
 - activating OPR-GDE-207
 - deactivating OPR-GDE-215
 - defining OPR-GDE-209
 - definitions
 - displaying OPR-GDE-213
 - deleting OPR-GDE-211
 - IBM 3172 Model 3 Interconnect Controller
 - considerations OPR-GDE-209
 - status information
 - displaying OPR-GDE-218
 - traffic load status
 - displaying OPR-GDE-218
 - ZCLAW ACTIVATE command OPR-GDE-207
 - ZCLAW ADD command OPR-GDE-209
 - ZCLAW DELETE command OPR-GDE-211
 - ZCLAW DISPLAY command OPR-GDE-213
 - ZCLAW INACTIVATE command OPR-GDE-215
 - ZCLAW STATUS command OPR-GDE-218
- CLAWADP parameter
 - SNAKEY macro ACF-GDE-20
- CLAWADP value, choosing CLAWGR-23
- CLAWCC macro SYS-MAC-164
- CLAWFD parameter
 - SNAKEY macro ACF-GDE-20
- CLAWFD value, choosing CLAWGR-25
- CLAWIP parameter
 - SNAKEY macro ACF-GDE-20
- CLAWIP value, choosing CLAWGR-26
- CLD tapes OPR-GDE-18
- Clean Up Blocks in the CRET macro SYS-MAC-399
- cleanup operation, TPFxd_close CLS-UGR-1363
- clear (SNA command) SNA-PRM-247
- CLEAR command
 - received from NPSI/GATE SNA-PRM-331
 - TPF initiated sent to NPSI/GATE SNA-PRM-335
- CLEAR keyword MIG-GD1-262
- clear the in-core pool reuse table CLS-UGR-1329
- CLEAR-CONFIRM command
 - received from NPSI/GATE SNA-PRM-335
- clearing indicators GEN-MAC-24
- clearing TCP/IP statistics OPR-GDE-1400

clearing TPFAR continuous data collection
 ZCDCO command OPR-GDE-190

CLH block management table
 changes MIG-GD1-237

CLH
 ADDLC SYS-MAC-101
 NUMLC SYS-MAC-361
 NXTLC SYS-MAC-363

CLHEQ macro MSP-PRM-20

CLIBFUN macro APP-GDE-338

client code, sample
 TCP client CLAWGR-373
 UDP client CLAWGR-378

client support CLAWGR-122

client/server environment CLAWGR-7

CLNKC macro SYS-MAC-166

clocks SYS-GEN-32

CLOCKS macro SYS-GEN-217

clocks
 altering of MSP-PRM-24
 CPU timer MSP-PRM-23
 displaying of MSP-PRM-24
 Sysplex Timer (STR) MSP-PRM-24, MSP-PRM-25
 TOD clock MSP-PRM-23
 TOD clock comparator MSP-PRM-23
 TOD synchronization MSP-PRM-25

close a data set GEN-MAC-533

close a directory CLS-UGR-46

close a file CLS-UGR-44

close a general tape CLS-UGR-534, CLS-UGR-544

Close a General Tape macro GEN-MAC-390

close a queue CLS-UGR-335

close file CLS-UGR-127

close inactive sockets
 socket sweeper CLAWGR-125

Close macro GEN-MAC-17

close the system control log CLS-UGR-48

closing
 files CLS-UGR-127
 logs CLS-UGR-48
 streams CLS-UGR-127

CLU SNA-PRM-16

CLU name
 define MIG-GD1-253

CLU parameter
 ALS statement ACF-GDE-47
 CTC statement ACF-GDE-50

cluster controller (3274/3276) SNA-PRM-4,
 SNA-PRM-43, SNA-PRM-250

cluster controller (3x74/3276) SNA-PRM-26

CLXC SNA-PRM-48

CM0ND macro GEN-MAC-70

CM0PR macro GEN-MAC-72

CMB authorization SYS-MAC-14

CMC (communications management configuration)
 SNA-PRM-46

CMMGLBTB table
 access using the CINFC tag MIG-GD1-234
 convert addresses MIG-GD1-234
 location MIG-GD1-234

CMMxxx GEN-MAC-67

CNE1 SNA-PRM-47

CNOSC CHANGE GEN-MAC-84

CNOSC CHANGE
 return codes GEN-MAC-85

CNOSC DISPLAY GEN-MAC-87

CNOSC DISPLAY
 return codes GEN-MAC-89

CNOSC INITIALIZE GEN-MAC-90

CNOSC INITIALIZE
 return codes GEN-MAC-92

CNOSC macro GEN-MAC-76

CNOSC macro
 CHANGE GEN-MAC-84
 DISPLAY GEN-MAC-87
 general programming considerations GEN-MAC-83
 general syntax GEN-MAC-76
 INITIALIZE GEN-MAC-90
 RESET GEN-MAC-95
 valid return codes GEN-MAC-80
 valid verbs and keywords GEN-MAC-76

CNOSC RESET GEN-MAC-95

CNOSC RESET
 return codes GEN-MAC-97

CNVNNR1 ACF-GDE-31

COBU segment ACF-GDE-1

code customization
 changes MIG-GD1-229
 changes
 address space MIG-GD1-229
 auxiliary loader(TLDR) MIG-GD1-229
 CINFC labels MIG-GD1-229
 control program MIG-GD1-229
 CXFRC macro MIG-GD1-229
 data collection MIG-GD1-229
 E-typeloader (OLDR) MIG-GD1-229
 general MIG-GD1-229
 input/output blocks (IOBs) MIG-GD1-229
 low address protection MIG-GD1-229
 macro calls MIG-GD1-229
 real-time trace (RTT) facility MIG-GD1-229
 SERRC macro call MIG-GD1-229
 shutdown levels MIG-GD1-229
 SNAPC macro call MIG-GD1-229
 supervisor call (SVC) MIG-GD1-229
 system error package MIG-GD1-229
 system work blocks (SWBs) MIG-GD1-229
 X'18' displacement MIG-GD1-229

description MIG-GD1-229

dump content
 control MIG-GD1-229
 customize MIG-GD1-229

code generation for CLAW API SYS-MAC-164

code page specifications AR-USG-16

code samples written to the RENT standard
 APP-GDE-163

coded character set identifier (CCSID) default for DB2
 AR-USG-16, AR-USG-21

codes, error (summary table) CLS-UGR-861,
 CLS-UGR-874

coding considerations APP-GDE-246

coding practices, assembler PSM-GDE-27

- coding the SNMP user exits CLAWGR-98
- coexistence facilitation
 - overview MIG-GD1-9
- collated I/O trace PDV-PRM-88
- collated I/O trace table PDV-PRM-63
- collated macro trace table PDV-PRM-81
- collated trace
 - macro trace facility MIG-GD1-294
- collection access mode CLS-UGR-1101
- collection access mode, retrieving CLS-UGR-1049
- collection control record, locating DBS-REF-214
- collection functions, TPFCS APP-GDE-105
- collection functions, TPFCS
 - T02_add CLS-UGR-883
 - T02_addAllFrom CLS-UGR-886
 - T02_addAtIndex CLS-UGR-888
 - T02_addKeyPath CLS-UGR-890
 - T02_addRecoupIndexEntry CLS-UGR-893
 - T02_asSequenceCollection CLS-UGR-897
 - T02_associateRecoupIndexWithPID CLS-UGR-899
 - T02_asSortedCollection CLS-UGR-901
 - T02_at CLS-UGR-903
 - T02_atKey CLS-UGR-905
 - T02_atKeyPut CLS-UGR-907
 - T02_atKeyWithBuffer CLS-UGR-909
 - T02_atNewKeyPut CLS-UGR-911
 - T02_atPut CLS-UGR-913
 - T02_atRBA CLS-UGR-915
 - T02_atRBAPut CLS-UGR-917
 - T02_atRBAWithBuffer CLS-UGR-920
 - T02_atWithBuffer CLS-UGR-922
 - T02_capture CLS-UGR-924
 - T02_copyCollection CLS-UGR-927
 - T02_copyCollectionTemp CLS-UGR-929
 - T02_copyCollectionWithOptions CLS-UGR-931
 - T02_createArray CLS-UGR-933
 - T02_createArrayTemp CLS-UGR-935
 - T02_createArrayWithOptions CLS-UGR-937
 - T02_createBag CLS-UGR-939
 - T02_createBagTemp CLS-UGR-941
 - T02_createBagWithOptions CLS-UGR-943
 - T02_createBLOB CLS-UGR-945
 - T02_createBLOBTemp CLS-UGR-947
 - T02_createBLOBWithOptions CLS-UGR-949
 - T02_createKeyBag CLS-UGR-954
 - T02_createKeyBagTemp CLS-UGR-956
 - T02_createKeyBagWithOptions CLS-UGR-958
 - T02_createKeyedLog CLS-UGR-960
 - T02_createKeyedLogTemp CLS-UGR-962
 - T02_createKeyedLogWithOptions CLS-UGR-964
 - T02_createKeySet CLS-UGR-966
 - T02_createKeySetTemp CLS-UGR-968
 - T02_createKeySetWithOptions CLS-UGR-970
 - T02_createKeySortedBag CLS-UGR-972
 - T02_createKeySortedBagTemp CLS-UGR-974
 - T02_createKeySortedBagWithOptions CLS-UGR-976
 - T02_createKeySortedSet CLS-UGR-978
 - T02_createKeySortedSetTemp CLS-UGR-980
 - T02_createKeySortedSetWithOptions CLS-UGR-982
 - T02_createLog CLS-UGR-984
 - T02_createLogTemp CLS-UGR-986

- collection functions, TPFCS *(continued)*
 - T02_createLogWithOptions CLS-UGR-988
 - T02_createOptionList CLS-UGR-990
 - T02_createRecoupIndex CLS-UGR-998
 - T02_createSequence CLS-UGR-1000
 - T02_createSequenceTemp CLS-UGR-1002
 - T02_createSequenceWithOptions CLS-UGR-1004
 - T02_createSet CLS-UGR-1006
 - T02_createSetTemp CLS-UGR-1008
 - T02_createSetWithOptions CLS-UGR-1010
 - T02_createSortedBag CLS-UGR-1013
 - T02_createSortedBagTemp CLS-UGR-1015
 - T02_createSortedBagWithOptions CLS-UGR-1017
 - T02_createSortedSet CLS-UGR-1019
 - T02_createSortedSetTemp CLS-UGR-1021
 - T02_createSortedSetWithOptions CLS-UGR-1023
 - T02_definePropertyForPID CLS-UGR-1028
 - T02_definePropertyWithModeForPID CLS-UGR-1031
 - T02_deleteAllPropertiesFromPID CLS-UGR-1034
 - T02_deleteCollection CLS-UGR-1036
 - T02_deletePropertyFromPID CLS-UGR-1038
 - T02_deleteRecoupIndex CLS-UGR-1040
 - T02_deleteRecoupIndexEntry CLS-UGR-1041
 - T02_getAllPropertyNamesFromPID CLS-UGR-1043
 - T02_getBLOB CLS-UGR-1045
 - T02_getBLOBWithBuffer CLS-UGR-1047
 - T02_getCollectionAccessMode CLS-UGR-1049
 - T02_getCollectionKeys CLS-UGR-1051
 - T02_getCollectionType CLS-UGR-1053
 - T02_getCurrentKey CLS-UGR-1141
 - T02_getCurrentKeyWithBuffer CLS-UGR-1143
 - T02_getDRprotect CLS-UGR-1055
 - T02_getKeyPathAttributes CLS-UGR-1281
 - T02_getMaxDataLength CLS-UGR-1057
 - T02_getMaxKeyLength CLS-UGR-1058
 - T02_getPathInfoFor CLS-UGR-1296
 - T02_getPropertyValueFromPID CLS-UGR-1060
 - T02_getRecoupIndex CLS-UGR-1307
 - T02_getRecoupIndexForPID CLS-UGR-1310
 - T02_getSortFieldValues CLS-UGR-1062
 - T02_includes CLS-UGR-1064
 - T02_isCollection CLS-UGR-1066
 - T02_isPropertyDefinedForPID CLS-UGR-1068
 - T02_makeEmpty CLS-UGR-1072
 - T02_maxEntry CLS-UGR-1074
 - T02_reconstructCollection CLS-UGR-1323
 - T02_removeIndex CLS-UGR-1078
 - T02_removeKey CLS-UGR-1080
 - T02_removeKeyPath CLS-UGR-1082
 - T02_removeRBA CLS-UGR-1084
 - T02_removeRecoupIndexFromPID CLS-UGR-1086
 - T02_removeValue CLS-UGR-1088
 - T02_removeValueAll CLS-UGR-1090
 - T02_replaceBLOB CLS-UGR-1092
 - T02_restore CLS-UGR-1094
 - T02_restoreAsTemp CLS-UGR-1096
 - T02_restoreWithOptions CLS-UGR-1098
 - T02_setCollectionAccessMode CLS-UGR-1101
 - T02_setDRprotect CLS-UGR-1103
 - T02_setKeyPath CLS-UGR-1180
 - T02_setSize CLS-UGR-1107

collection functions, TPFCS (*continued*)
 T02_size CLS-UGR-1109
 T02_validateKeyPath CLS-UGR-1342
 T02_writeNewBLOB CLS-UGR-1111

collection information
 add, display, or remove a key path OPR-GDE-138
 altering OPR-GDE-111
 altering an attribute (property) OPR-GDE-150
 displaying OPR-GDE-131
 displaying collection name information
 OPR-GDE-141
 displaying path information about a structure
 OPR-GDE-145
 maintenance OPR-GDE-123
 ZBROW ALTER command OPR-GDE-111
 ZBROW COLLECTION command OPR-GDE-123
 ZBROW DISPLAY command OPR-GDE-131
 ZBROW KEYPATH command OPR-GDE-138
 ZBROW NAME command OPR-GDE-141
 ZBROW PATH command OPR-GDE-145
 ZBROW PROPERTY command OPR-GDE-150

collection lifetimes CON-STR-164

collection parts
 displaying contents of DBS-REF-215
 listing DBS-REF-214
 stored in the TPF database DBS-REF-160

collection summary table, cursors CLS-UGR-1113,
 CLS-UGR-1114

collection support table, non-cursor APIs
 CLS-UGR-881, CLS-UGR-882

COLLECTION-ID option of DBRM AR-USG-35

collection, names APP-GDE-104

collection
 defining a property for CLS-UGR-1028,
 CLS-UGR-1031
 interval SPM-PRM-24
 message SPM-PRM-85
 migrating a CLS-UGR-1318
 reconstruction CLS-UGR-1323
 retrieving a data store system CLS-UGR-1285
 returning property names for CLS-UGR-1043
 time stamp creation CLS-UGR-1272
 validation CLS-UGR-1340

collections, TPFCS CON-STR-161, CON-STR-163

collections
 accessing DBS-REF-129
 accessing and modifying APP-GDE-107
 creating APP-GDE-106
 defining APP-GDE-101
 deleting APP-GDE-106
 determining residency DBS-REF-173, DBS-REF-217
 determining the end of APP-GDE-112
 examples DBS-REF-134
 iterating over APP-GDE-113
 iteration using cursors APP-GDE-113
 iterative operations DBS-REF-141
 locating data DBS-REF-218
 locking APP-GDE-115
 names DBS-REF-130
 structure object DBS-REF-218
 summary DBS-REF-131

collections (*continued*)
 support DBS-REF-130

collectors SPM-PRM-4

collectors chosen SPM-PRM-13

column
 and primary key/index AR-USG-80
 definition of AR-USG-111
 explanation of AR-USG-27
 in relational databases AR-USG-27

Combination Data macro GEN-MAC-130

combination functions APP-GDE-240

combination macros APP-GDE-262

COMM SOURCE CON-STR-62, CON-STR-63,
 CON-STR-177

COMM SOURCE (communications source program)
 CON-STR-67, CON-STR-68

COMM SOURCE (communications source program)
 functions CON-STR-177
 OPZERO passes control to CON-STR-58
 routing control parameter list (RCPL) CON-STR-177
 selection of application program CON-STR-58
 user exit CON-STR-179

command CON-STR-91

command content for FTPI SNA-PRM-34

command flow SNA-PRM-345

command format PSM-GDE-3

command support in TPF/NEF/AX.25 SNA-PRM-48

command table (UMET) OPR-GDE-16

command
 contrast with instruction CON-STR-32
 summary of for C function trace PDV-PRM-134

ZCNTM PDV-PRM-48

ZGFSP DBS-REF-21

ZNETW PDV-PRM-119

ZOLDR ACTIVATE PDV-PRM-136

ZSELD PDV-PRM-53

ZSTOP PDV-PRM-48

ZSTRC PDV-PRM-133, PDV-PRM-134

ZTHLN PDV-PRM-64

ZTHLT PDV-PRM-53, PDV-PRM-66

ZTRAC PDV-PRM-48, PDV-PRM-49, PDV-PRM-50

ZTRCE PDV-PRM-53, PDV-PRM-66

commands APP-GDE-291

commands for TPFAR AR-USG-15

commands for TPFAR
 ZNKEY AR-USG-16
 ZSQLD AR-USG-13, AR-USG-17, AR-USG-18,
 AR-USG-21
 ZSTTD AR-USG-16, AR-USG-98

commands, calling from library function CLS-UGR-527

commands, database reorganization DBS-REF-89

commands, TPFCS CON-STR-167, CON-STR-168

commands
 characteristics of
 changing OPR-GDE-559
 displaying OPR-GDE-559

characteristics
 change MIG-GD1-22
 define MIG-GD1-22

construct and run OPR-GDE-548

defining your own OPR-GDE-16, OPR-GDE-559

commands *(continued)*

displaying and altering data MSP-PRM-27
FILSC MIG-GD1-249
FINIS MIG-GD1-17
FINSC MIG-GD1-249
general data set DBS-REF-14
general file DBS-REF-18
prefixing OPR-GDE-16, OPR-GDE-32
record caching DBS-REF-43, DBS-REF-48,
DBS-REF-49
sending to other processors OPR-GDE-16,
OPR-GDE-32
using as simple editor
ZFILE echo command OPR-GDE-457,
OPR-GDE-524
Z-messages MIG-GD1-261
ZACLV MIG-GD1-216, MSP-PRM-21
ZACOR MIG-GD2-176, MSP-PRM-27
ZADCA MSP-PRM-27
ZAFIL MSP-PRM-28
ZAPAT MIG-GD1-17, MIG-GD1-301, MSP-PRM-28
ZAPGM MSP-PRM-28
ZAREC MSP-PRM-28
ZASER MSP-PRM-39
ZATIM MSP-PRM-24
ZATME MSP-PRM-25
ZBROW DBS-REF-148
ZBROW COLLECTION DBS-REF-195
ZBROW DISPLAY DBS-REF-218
ZCHCH MIG-GD2-10
ZCLAW ACTIVATE CLAWGR-30
ZCLAW ADD CLAWGR-29
ZCLAW DELETE CLAWGR-31
ZCLAW DISPLAY CLAWGR-31
ZCLAW INACTIVATE CLAWGR-30
ZCLAW RESET CLAWGR-33
ZCLAW TRACE CLAWGR-32, CLAWGR-33
ZCTKA MIG-GD1-16, MIG-GD1-214,
MIG-GD1-281, MIG-GD1-284, MSP-PRM-29
ZCYCL MSP-PRM-5
ZDADD MSP-PRM-28
ZDBRO MIG-GD1-284
ZDBRO INIT MIG-GD1-284
ZDBSI MIG-GD1-284
ZDBSO MIG-GD1-284
ZDBSO INIT MIG-GD1-284
ZDCLV MSP-PRM-21
ZDCOR MIG-GD2-176, MSP-PRM-27
ZDDAT MSP-PRM-24
ZDDCA MIG-GD1-304, MSP-PRM-27,
MSP-PRM-47
ZDDSI MIG-GD2-10
ZDEBB MIG-GD2-10
ZDECB MIG-GD2-10
ZDECD MIG-GD1-243, MIG-GD1-246
ZDFCT MIG-GD2-10
ZDFIL DBS-REF-218, MSP-PRM-28
ZDFPC DBS-REF-30
ZDMOD MIG-GD2-10
ZDPAT MIG-GD1-301, MSP-PRM-28
ZDPGM MSP-PRM-28

commands *(continued)*

ZDPLT MIG-GD2-10, MSP-PRM-29
ZDREC MSP-PRM-28
ZDSER MSP-PRM-39
ZDSYS MSP-PRM-5
ZDTIM MSP-PRM-24
ZDTOD MIG-GD2-10
ZDUMP MSP-PRM-40
ZDUMP SEL MIG-GD2-219
ZDUPD DBS-REF-27
ZDWGT MIG-GD2-10
ZFCAP MIG-GD1-279
ZFILE xargs command OPR-GDE-548
ZFMSG command OPR-GDE-559
ZFMSG facility
change command characteristics MIG-GD1-22
define command characteristics MIG-GD1-22
ZGAFA DBS-REF-31
ZGAFI DBS-REF-31
ZGFSP DBS-REF-28, DBS-REF-30
ZIDOT MIG-GD1-13, MIG-GD1-237, MIG-GD1-238
ZIFIL MSP-PRM-28
ZIMAG MSP-PRM-2
ZIMAG
CLEAR MSP-PRM-2
COPY MSP-PRM-2
DEFINE MSP-PRM-2
DISABLE MSP-PRM-2
DISPLAY IMAGE MSP-PRM-2
DISPLAY IPL MSP-PRM-2
DISPLAY PROCESSOR MSP-PRM-2
DISPLAY PROG MSP-PRM-2
ENABLE MSP-PRM-2
MAKEPHYS MSP-PRM-2
PRIMARY MSP-PRM-2
UNREF MSP-PRM-2
ZINET ADD CLAWGR-99, CLAWGR-237
ZINET ALTER CLAWGR-235, CLAWGR-237
ZINET DELETE CLAWGR-235
ZINET START CLAWGR-99, CLAWGR-237,
CLAWGR-238
ZINET STOP CLAWGR-237, CLAWGR-238
ZLREP PT MIG-GD1-73
ZLRES MIG-GD1-73
ZLTOF MIG-GD1-74
ZMEAS MIG-GD1-285
ZMODE MIG-GD1-243, MIG-GD1-244,
MIG-GD1-245, MIG-GD1-246
ZMPIF MIG-GD1-202, MIG-GD2-10, MIG-GD2-52
ZMQID ALTER MIG-GD2-268
ZMQID DEFINE MIG-GD2-268
ZMQID DELETE MIG-GD2-268
ZMQID DISPLAY MIG-GD2-268
ZMQIT MIG-GD2-268
ZN MIG-GD1-79
ZNDYN ADD MIG-GD1-252, MIG-GD2-18
ZNDYN CHANGE MIG-GD1-254
ZNERR MSP-PRM-48
ZNETW ACT MIG-GD1-76
ZNETW MOUNT MIG-GD1-8
ZNOPL MIG-GD1-211

commands *(continued)*

ZNOPL MERGE MIG-GD1-11
ZNIU MIG-GD1-302
ZNTRP MIG-GD1-295, MIG-GD1-302
ZOLDR LOAD DBS-REF-110
ZOODB DBS-REF-147
ZOSAE CLAWGR-63, CLAWGR-64, CLAWGR-65,
CLAWGR-67, CLAWGR-68
ZPAGE MIG-GD1-22
ZPMIG DBS-REF-31
ZPOOL MIG-GD1-247
ZPOOL GENERATION DBS-REF-25
ZPROT DBS-REF-110, MSP-PRM-35
ZPTCH MIG-GD1-16, MSP-PRM-29
ZRBKD DBS-REF-110
ZRDIR CAPTURE DBS-REF-27
ZRDIR START RESTORE DBS-REF-27
ZRECP ABORT DBS-REF-114
ZRECP ADD DBS-REF-108, DBS-REF-114
ZRECP DEL DBS-REF-108
ZRECP DISPLAY DBS-REF-113
ZRECP DUMP DBS-REF-109, DBS-REF-115
ZRECP ELOG DBS-REF-110
ZRECP IGNORE DBS-REF-108, DBS-REF-113
ZRECP LEVEL DBS-REF-110
ZRECP NOREBUILD DBS-REF-108, DBS-REF-114
ZRECP ONEL DBS-REF-111
ZRECP PROCEED DBS-REF-108, DBS-REF-114
ZRECP PROFILE DBS-REF-110, DBS-REF-111
ZRECP PROTECT DBS-REF-108, DBS-REF-113
ZRECP REBUILD DBS-REF-108, DBS-REF-114
ZRECP RECALL DBS-REF-111
ZRECP RESTART DBS-REF-111, DBS-REF-114
ZRECP RESUME DBS-REF-108, DBS-REF-113
ZRECP SEL DBS-REF-111
ZRECP SKIP DBS-REF-114
ZRECP START DBS-REF-110
ZRECP STATUS DBS-REF-111
ZRIPL MSP-PRM-1
ZRPDU CREATE DBS-REF-27
ZRSTT MSP-PRM-6
ZRTDM MIG-GD1-17
ZSLDR MIG-GD1-211, MSP-PRM-35
ZSLDR LOAD DATA MIG-GD1-81
ZSNMP CLAWGR-98
ZSPER MIG-GD1-294, MIG-GD1-301
ZSTAT MSP-PRM-22
ZSTRC MIG-GD1-20, MIG-GD1-234,
MIG-GD1-278, MIG-GD1-295, MIG-GD1-296,
MIG-GD1-298, MIG-GD1-300
ZSYSG MIG-GD1-212, MIG-GD1-235,
MIG-GD1-296, MSP-PRM-29
ZSYSG ALTER MIG-GD1-221
ZSYSL MSP-PRM-29
ZTDEV MIG-GD1-281
ZTGRP MIG-GD1-281
ZTLBL MIG-GD1-281
ZTMSL MSP-PRM-29
ZTPLD MSP-PRM-2
ZTRTE CLAWGR-99
ZTTCP DISPLAY CLAWGR-67

commands *(continued)*

ZVFAC MIG-GD1-249
ZVIPA CLAWGR-65, CLAWGR-68, CLAWGR-69,
CLAWGR-70, CLAWGR-71
ZxPAT MIG-GD1-16
commit a global transaction CLS-UGR-649
commit a queue CLS-UGR-337
commit and rollback protocols
TPF transaction services DBS-REF-143
with cursors DBS-REF-144
commit data SPM-PRM-26
commit request
processing OPR-GDE-228
ZCORO command OPR-GDE-228
commit rules APP-GDE-95
commit scope APP-GDE-89, DBS-REF-144
commit scope processing DBS-REF-125
commit scope, using with dirty-reader protection
DBS-REF-144
commit scope
begin transaction APP-GDE-89
commit APP-GDE-89
filing records APP-GDE-91
finding records APP-GDE-91
holding record locks APP-GDE-92
nesting APP-GDE-90
resume APP-GDE-89
rollback APP-GDE-89
root scope APP-GDE-90
suspend APP-GDE-89
commit transaction APP-GDE-89, CON-STR-12
commit work done for a transaction branch
CLS-UGR-708
commit/rollback protocols
TPF transaction services CON-STR-166
common area
definition MIG-GD1-213
description GIM-23, MIG-GD1-278
ECB relationship MIG-GD1-278
common block CON-STR-74
Common Block authorization SYS-MAC-14
common block
get MIG-GD1-220
get and release MIG-GD1-278
GETCC macro MIG-GD1-220
initialization MIG-GD1-12
system shutdown value MIG-GD1-82
common blocks
getting MSP-PRM-22
minimum percentage required
changing OPR-GDE-975
displaying OPR-GDE-975
ZNKEY command OPR-GDE-975
common data APP-GDE-250
common frame
allocate working storage MIG-GD1-203
description MIG-GD1-278
ECB relationship MIG-GD1-278
working storage relationship MIG-GD1-214
common frames
use of MSP-PRM-21

- common I/O handler (CIO) CON-STR-89
- common I/O processing suspend SYS-MAC-457
- Common Link to Access Workstation (CLAW)
 - SYS-MAC-164
- common program
 - location of the demand counter MIG-GD1-219
- common programming interface (CPI)
 - TPF/APPC sessions MIG-GD1-20
- common storage GEN-MAC-246, GEN-MAC-248
- common storage block
 - get SYS-MAC-33
 - release SYS-MAC-64
- communicate with processors SYS-MAC-435
- Communication and Transmission Control Program (CTCP) SNA-PRM-29, SNA-PRM-317
- Communication and Transmission Control Program (CTCP)
 - activating for GATE/FTPI SNA-PRM-36
 - control block residence SNA-PRM-326
 - definition for GATE/FTPI SNA-PRM-36
 - functions SNA-PRM-321
 - input data message processing SNA-PRM-335
 - output data message processing SNA-PRM-335
 - sample implementation using PSVs SNA-PRM-321
 - user control blocks SNA-PRM-322
- Communication Control Program NSC-PRM-21
- communication control program trace
 - output on log tape PDV-PRM-61
- communication control program
 - trace routine PDV-PRM-64
- Communication Control Program
 - description NSC-PRM-21
 - external input and output NSC-PRM-28
 - internally activated processes NSC-PRM-31
 - message flow overview NSC-PRM-32
 - relationships to other packages NSC-PRM-28
- communication control unit (CCU) SYS-GEN-132
- communication control unit
 - 3720 ACF/NCP RPQs by protocol MIG-GD1-200, MIG-GD2-50
 - 3725 ACF/NCP/VS RPQs by protocol MIG-GD1-200, MIG-GD2-50
 - 3745 ACF/NCP RPQs by protocol MIG-GD1-201, MIG-GD2-51
- communication controller CON-STR-169
- communication controller
 - 3270 local CON-STR-169
 - emulator program (EP) CON-STR-169
 - network control program (NCP) CON-STR-169
 - types MIG-GD1-188, MIG-GD2-38
- communication device loading SYS-GEN-26
- communication devices
 - falling back OPR-GDE-11
 - IBM 3172 Model 3 Interconnect Controller OPR-GDE-209
 - TCP/IP support
 - IBM 3172 Model 3 Interconnect Controller OPR-GDE-209
- communication endpoint
 - socket CLAWGR-119
- communication integrity GIM-19
- communication keypoint records, non-SNA
 - SYS-GEN-16
- communication lines
 - assigning OPR-GDE-681
 - displaying status OPR-GDE-687
 - error counts
 - changing OPR-GDE-678
 - displaying OPR-GDE-685
 - falling back OPR-GDE-11
 - idling OPR-GDE-690
 - replacing OPR-GDE-696
 - starting OPR-GDE-699
 - stopping OPR-GDE-701
 - ZLAEC command OPR-GDE-678
 - ZLASN command OPR-GDE-681
 - ZLDLE command OPR-GDE-685
 - ZLDLS command OPR-GDE-687
 - ZLIDL command OPR-GDE-690
 - ZLREP command OPR-GDE-696
 - ZLSTA functional OPR-GDE-699
 - ZLSTP command OPR-GDE-701
- communication path SNA-PRM-19
- communication pilot record generation
 - non-SNA communication records SYS-GEN-137
- communication rate SNA-PRM-19
- communication support
 - airlines line control (ALC) support SYS-GEN-8
 - binary synchronous communication (BSC)
 - SYS-GEN-8
 - SNA SYS-GEN-8
 - synchronous link control (SLC) SYS-GEN-8
 - TCP/IP support SYS-GEN-8
 - X.25 support SYS-GEN-8
- communication
 - 3705 SYS-MAC-403
 - between processors SYS-MAC-437
 - data SYS-MAC-381
 - line management SYS-MAC-161
 - line status SYS-MAC-386
 - non-SNA MIG-GD1-199, MIG-GD2-49
 - shutdown levels MIG-GD1-216, MIG-GD1-258
 - SNA MIG-GD1-18, MIG-GD1-197, MIG-GD2-47
 - TCP/IP support MIG-GD1-198, MIG-GD2-48
- communications control CON-STR-10
- communications control program (CCP) APP-GDE-11, SNA-PRM-48
- communications control program (CCP)
 - error counts
 - changing OPR-GDE-678
 - displaying OPR-GDE-685
 - macro routine (CLXC) SNA-PRM-48
 - restart and shutdown polling controls
 - changing OPR-GDE-676
 - displaying OPR-GDE-684
 - ZLACL command OPR-GDE-676
 - ZLAEC command OPR-GDE-678
 - ZLDCL command OPR-GDE-684
 - ZLDLE command OPR-GDE-685
- Communications Control Program Trace NSC-PRM-17
- Communications Control Program Trace
 - functions NSC-PRM-17

Communications Control Program Trace *(continued)*
 input NSC-PRM-19
 output NSC-PRM-19
 programs NSC-PRM-18
 purpose NSC-PRM-17
 communications control
 application services CON-STR-180
 cross list CON-STR-180
 description CON-STR-169
 destination of a message CON-STR-171
 error recovery design CON-STR-186
 functions CON-STR-170
 history of CON-STR-171
 input message CON-STR-169
 input processing CON-STR-175
 input processing for non-SNA, 3270 local
 CON-STR-176
 input processing for non-SNA, BSC CON-STR-175
 input processing for non-SNA, SLC CON-STR-176
 input processing for SNA CON-STR-175
 load balancing CON-STR-180
 message destination CON-STR-171
 message processing overview CON-STR-173
 multiple applications CON-STR-171
 network control program (NCP) CON-STR-175
 network restart CON-STR-186
 non-SNA communications control CON-STR-10
 one application CON-STR-171
 output message router CON-STR-181
 output message transmission CON-STR-182
 pacing CON-STR-182
 relation to performance CON-STR-169
 restart due to a system failure CON-STR-186
 sending output message CON-STR-182
 SNA communications control CON-STR-10
 SNA networks CON-STR-172
 TCP/IP CON-STR-187
 user exit CON-STR-179, CON-STR-187
 communications controller SNA-PRM-11
 Communications Controller (3705) Support
 (DCSR-CCS) DCS-PRM-9
 Communications Controller (3705) Support
 (DCSR-CCS)
 data base and/or input/output description
 DCS-PRM-10
 general description DCS-PRM-9
 program organization DCS-PRM-11
 programming systems DCS-PRM-13
 communications interface functions
 inqrc CLS-UGR-295
 selec CLS-UGR-448
 communications keypoint
 alter MIG-GD1-77
 display MIG-GD1-77
 communications management configuration (CMC)
 CON-STR-186, SNA-PRM-46
 communications program SNA-PRM-3
 communications requirement
 non-SNA MIG-GD1-199, MIG-GD2-49
 SNA MIG-GD1-197, MIG-GD2-47
 TCP/IP support MIG-GD1-198, MIG-GD2-48
 communications requirements for TPFAR AR-USG-11
 communications source message router SYS-GEN-148
 communications source processor (COMM SOURCE)
 APP-GDE-12
 communications source program (CIAA) SNA-PRM-46
 communications trace
 for TPF MQSeries PDV-PRM-153
 communications
 SNA enhancements GIM-26
 Systems Network Architecture (SNA) GIM-16
 TPF GIM-16
 compact structures DBS-REF-173
 compare and swap instruction (CS) CON-STR-30
 compare double and swap instruction (CDS)
 CON-STR-30
 compile options for TPF programs PSM-GDE-25
 compiler functions supported as TPF extensions
 CLS-UGR-1395
 compiler options
 not supported for TPF APP-GDE-162
 TARGET(TPF) option APP-GDE-162
 compiler
 labels SPM-PRM-91
 PL/I optimizing SPM-PRM-91
 compiling C/C++ programs
 general APP-GDE-162
 compiling the FACE Table Generator SYS-GEN-188
 complete binding
 socket API function, listen CLAWGR-189
 complex name
 displaying OPR-GDE-363
 ZDSID command OPR-GDE-363
 components
 socket/CLAW interfaces CLAWGR-16
 TCP/IP native stack support CLAWGR-44
 compute date stamp GEN-MAC-132
 Compute File Address macro SYS-MAC-228
 compute low-level file address CLS-UGR-117
 Compute Time Stamp macro GEN-MAC-395
 computer room agent set (CRAS) CON-STR-91
 computer room agent set (CRAS)
 display console status MIG-GD1-67
 route messages to CRAS console MIG-GD1-80
 sending a message to OPR-GDE-1147
 status table
 changing OPR-GDE-53
 displaying OPR-GDE-295
 ZACRS command OPR-GDE-53
 ZDCRS command OPR-GDE-295
 ZRCRS command OPR-GDE-1147
 computer room agent sets (CRAS) SYS-GEN-23
 computer room agent table (CRAT) SNA-PRM-49
 CONBC
 See \$CONBC
 concatenation
 in the LET macro SPM-115
 with Boolean connectors SPM-13, SPM-24
 with the # macro SPM-30
 concepts used in data transmission
 socket CLAWGR-119, CLAWGR-120
 concepts, object-oriented (TPFCS) DBS-REF-157

- concurrency controls APP-GDE-115, DBS-REF-142
- concurrency controls
 - none (nonlocking cursor) CON-STR-165
 - optimistic CON-STR-165
 - pessimistic CON-STR-165
- concurrency filter lock facility MSP-PRM-4, MSP-PRM-33
- concurrency filter lock facility (CFLF) CON-STR-32, SYS-GEN-10
- concurrency filter lock facility (CFLF)
 - ZBUFC ALLOCATE OPR-GDE-164
 - ZBUFC ALLOCATE DISPLAY OPR-GDE-167
- concurrent access CLS-UGR-130
- concurrent message processing SNA-PRM-250
- concurrent processes CON-STR-22, CON-STR-54
- condensed expressions
 - Boolean connectors SPM-24
 - compare SPM-23
 - LTR instruction SPM-24
 - OC instruction SPM-24
 - overview SPM-23
 - TM instruction SPM-23
- condensing objects to save space DBS-REF-207
- Condition Code GEN-MAC-59
- condition code settings GEN-MAC-18
- conditional core block release GEN-MAC-122
- conditional expressions
 - checking a CPU ID SPM-13
 - condensed forms SPM-23
 - empty file
 - testing for SPM-20
 - end-of-file (EOF)
 - testing for SPM-20
 - examples of SPM-20
 - index detail file
 - testing for SPM-20
 - logical record (LREC)
 - testing for SPM-19
 - overview SPM-13
 - testing TPFDF return codes SPM-13
 - TPFDF errors
 - testing for SPM-19
 - using assembler instructions
 - branch on condition code instructions SPM-13
 - compare instructions SPM-13
 - noncompare instructions SPM-13
 - using FILNC macro SPM-18
 - using FILWC macro SPM-18
 - using FIWHC macro SPM-18
 - using WAITC macro SPM-18
- conditions requiring restore DBS-REF-65
- conditions, shutdown SPM-PRM-28
- CONFIG macro SYS-GEN-219
- CONFIG macro of SIP
 - TPFAR option AR-USG-11
- CONFIG.SYS file AR-USG-16
- Configuration Constants macro GEN-MAC-99
- Configuration Dependent System Equates macro GEN-MAC-377
- configuration file refresh, SNMP OPR-GDE-1263
- configuration file with SNMP
 - creating CLAWGR-96
 - example CLAWGR-96
 - keywords CLAWGR-97
 - refresh with ZSNMP command CLAWGR-96
- configuration file
 - access list
 - general discussion CLAWGR-259
 - parameters CLAWGR-264
 - for Internet daemon APP-GDE-173
 - for TFTP server APP-GDE-174
 - IMAP/POP
 - general discussion CLAWGR-259
 - parameters CLAWGR-262
 - SMTP
 - general discussion CLAWGR-259
 - parameters CLAWGR-259
 - syslog daemon
 - updating CLAWGR-249
 - TFTP
 - creating CLAWGR-241
 - directives CLAWGR-240
 - general discussion CLAWGR-239
 - transferring to TPF system CLAWGR-241
 - updating CLAWGR-241
 - TPF
 - general discussion CLAWGR-259
 - parameters CLAWGR-263
- configuration image SNA-PRM-251
- configuration options
 - access list CLAWGR-264
 - IMAP/POP configuration file CLAWGR-262
 - SMTP configuration file CLAWGR-259
 - TPF configuration file CLAWGR-263
- configuration report SNA-PRM-49
- configuration
 - working storage SPM-PRM-26
- configurations, sample SYS-GEN-485
- configurations
 - 3990 changes MIG-GD1-280
 - changes for load balancing MIG-GD1-280
- configuring a TPF system CLAWGR-59
- CONFIRM SNA-PRM-73
- CONFIRMED SNA-PRM-73
- conformance of TPF C support to ANSI/ISO standards
 - CLS-UGR-1389
- CONKC macro GEN-MAC-99
- Connect Block to ECB Virtual Memory macro
 - SYS-MAC-16
- connect queue manager CLS-UGR-339
- connect request from CLAW workstation, accept
 - CLAWGR-386
- connect request from the 3172 Model 3, accept
 - CLAWGR-386
- connect to a coupling facility (CF) cache structure
 - CLS-UGR-564
- connect to a coupling facility (CF) list structure
 - CLS-UGR-564
- Connect to a Coupling Facility List or Cache Structure
 - macro SYS-MAC-128
- connection MPI-PRM-3

- connection services MPI-PRM-5
- connection services
 - for coupling facility support DBS-REF-224
- connection
 - 3088 channel-to-channel link station AR-USG-19
 - 37x5 link station AR-USG-19
 - TPF and DB2 for VTAM AR-USG-19
- considerations, database reorganization DBS-REF-89
- consistent BLOB, creating CLS-UGR-949
- console CON-STR-91
- console information
 - display MIG-GD1-83
- console
 - types MIG-GD1-189, MIG-GD2-39
- constraint relief
 - 16 MB MIG-GD1-22
 - description MIG-GD1-22
 - heap storage MIG-GD1-13, MIG-GD2-13
 - working storage MIG-GD1-22
- construct internet address from character string
 - socket API function, inet_addr CLAWGR-182
- Contact Point Control Block (CPCB) SNA-PRM-326
- contention status
 - logical unit (LU)
 - displaying OPR-GDE-946
 - ZNDLU command OPR-GDE-946
- contention-winner polarities
 - changing OPR-GDE-932
 - initializing OPR-GDE-936
 - ZNCNS CHANGE command OPR-GDE-932
 - ZNCNS INITIALIZE command OPR-GDE-936
- contents of C/C++ source files, naming conventions
 - PSM-GDE-19
- contents of macro expansions GEN-MAC-4
- contiguous EVM storage
 - get SYS-MAC-44
- contiguous memory
 - changes MIG-GD1-212
- contiguous storage
 - changes MIG-GD2-13
 - get and release MIG-GD1-278, MIG-GD1-307
 - get in the heap private area MIG-GD1-307
- continuation indicator PDV-PRM-31
- continuous data collection SPM-PRM-9
- continuous data collection (CDC)
 - overview MIG-GD2-9
- continuous mode in data collection SPM-PRM-6
- continuous mode
 - data collection MIG-GD1-286
- control bits CON-STR-106
- control block area lock SYS-MAC-304
- control blocks for TPF/APPC SNA-PRM-67
- control blocks
 - CLAW device table (CDT) CLAWGR-23
 - file descriptor table (FDT) CLAWGR-24
 - internet protocol address table (IPT) CLAWGR-25
 - PTV PDV-PRM-14
- control buffering CLS-UGR-474
- control diagram CON-STR-53
- control diagram
 - control structure diagram CON-STR-53
- control diagram (*continued*)
 - control transfer diagram CON-STR-53
- control information (CI) field in FMH SNA-PRM-22
- control levels
 - CPU loop
 - display MIG-GD1-272
 - modify MIG-GD1-272
 - create macro control levels
 - display MIG-GD1-272
 - modify MIG-GD1-272
 - input list
 - display MIG-GD1-272
 - modify MIG-GD1-272
- control messages, HPR SNA-PRM-151
- Control MPIO Device macro SYS-MAC-358
- control of updating a single record CON-STR-108
- control open file descriptors CLS-UGR-129
- Control Point SNA-PRM-16
- control point (CP)
 - activating OPR-GDE-964
 - active links
 - displaying OPR-GDE-921
 - deactivating OPR-GDE-969
 - defining OPR-GDE-1002
 - deleting OPR-GDE-1002
 - name
 - displaying OPR-GDE-946, OPR-GDE-973
 - remote
 - activating OPR-GDE-964
 - sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - tracing OPR-GDE-1052
 - ZNAPN command OPR-GDE-921
 - ZNDLU command OPR-GDE-946
 - ZNETW ACT command OPR-GDE-964
 - ZNETW INACT command OPR-GDE-969
 - ZNKEY command OPR-GDE-973
 - ZNOPL LOAD command OPR-GDE-1002
 - ZNTRP command OPR-GDE-1052
- control point LU (CLU)
 - define for each CTC connection to VTAM
 - MIG-GD1-252
 - sessions with Logon Manager MIG-GD1-252
- Control Point
 - activating SNA-PRM-204
 - deactivating SNA-PRM-204
- control program CON-STR-56
- Control Program (CP) Call and Link macro
 - SYS-MAC-166
- control program (CP) dump
 - starting OPR-GDE-393
 - ZDUMP command OPR-GDE-393
- control program (CP) restart
 - initiating OPR-GDE-1219
 - ZRIPL command OPR-GDE-1219
- Control Program (CP) Rounding macro SYS-MAC-172
- Control Program (CP) Save Link Data and Set Stack
 - Pointer macro SYS-MAC-448
- Control Program (CP) Tape Logging macro
 - SYS-MAC-87

- control program (CP)
 - CCCTIN residency MIG-GD1-226
 - changes MIG-GD1-229, MIG-GD1-230
 - communicating with OPR-GDE-3
 - control program services MIG-GD1-236
 - convert non-intercept modifications in data collection MIG-GD1-229
 - define MIG-GD1-204, MIG-GD1-226
 - description MIG-GD1-230
 - ECB virtual memory (EVM) MIG-GD1-236
 - error messages OPR-GDE-13
 - high mapped memory MIG-GD1-236
 - IPL MIG-GD1-80
 - keypoint records OPR-GDE-13
 - macro services MIG-GD1-236
 - masked MIG-GD1-9
 - mode selection OPR-GDE-11
 - overview MIG-GD1-9
 - phases of OPR-GDE-3
 - reloading OPR-GDE-8
 - restart MIG-GD1-80
 - restarting OPR-GDE-8
 - save area APP-GDE-38
 - system virtual low memory MIG-GD1-236
- control program detected errors GEN-MAC-22
- control program errors MSP-PRM-40
- control program interface CLS-UGR-38
- Control Program Interface macro GEN-MAC-66
- Control Program Linkage SYS-MAC-1
- control program macros GEN-MAC-1
- control program use registers PSM-GDE-27
- control program user exits MSP-PRM-31
- control program, managing buffers DBS-REF-37
- control program
 - area SYS-GEN-34
 - description of CON-STR-80
 - fixed record support SYS-GEN-7
 - initializer SYS-GEN-41
 - pool record support SYS-GEN-7
 - records and table area SYS-GEN-41
 - reentrancy CON-STR-80
 - shared among multiple I-stream engines CON-STR-80
 - table SYS-GEN-178
 - user exits SYS-GEN-152
- control record DBS-REF-170
- control record information PDV-PRM-3
- control record modification SYS-MAC-72
- control record retrieval SYS-MAC-38, SYS-MAC-72
- control records SNA-PRM-19
- control records, DBR DBS-REF-91
- control section (CSECT) SYS-GEN-34
- control structure diagram CON-STR-53
- control structure for the TPF system CON-STR-56
- control system multiprocessor environment CLS-UGR-387
- control tape CLS-UGR-535
- Control the TPF System MP Environment macro SYS-MAC-369
- control transfer CON-STR-83, MSP-PRM-15, SYS-MAC-204
- control transfer diagram CON-STR-53
- control unit (3271) SNA-PRM-26
- control unit lock tables
 - lock names
 - deleting OPR-GDE-1214
 - displaying OPR-GDE-1216
 - ZRHLD DELETE command OPR-GDE-1214
 - ZRHLD DISPLAY command OPR-GDE-1216
- control unit status, cache DBS-REF-43, DBS-REF-49
- control unit
 - for communication MIG-GD1-188, MIG-GD2-38
 - for DASD MIG-GD1-186, MIG-GD2-36
 - for terminal interchange MIG-GD1-188, MIG-GD2-38
 - loosely coupled complex MIG-GD1-193, MIG-GD2-43
 - single central processing complex environment MIG-GD1-191, MIG-GD2-41
 - types MIG-GD1-188, MIG-GD2-38
- control units
 - assigning OPR-GDE-681
 - displaying status OPR-GDE-687
 - error counts
 - changing OPR-GDE-678
 - displaying OPR-GDE-685
 - falling back OPR-GDE-11
 - IBM 3172 Model 3 Interconnect Controller OPR-GDE-209
 - idling OPR-GDE-690
 - replacing OPR-GDE-696
 - TCP/IP support
 - IBM 3172 Model 3 Interconnect Controller OPR-GDE-209
 - ZLAEC command OPR-GDE-678
 - ZLASN command OPR-GDE-681
 - ZLDLE command OPR-GDE-685
 - ZLDLS command OPR-GDE-687
 - ZLIDL command OPR-GDE-690
 - ZLREP command OPR-GDE-696
- control
 - transfer of APP-GDE-227, APP-GDE-233
- controlling ECBs for C function trace
 - ENATC macro PDV-PRM-135
 - SETTC macro PDV-PRM-135
 - using the ENATC macro PDV-PRM-136
 - using the SETTC macro PDV-PRM-135, PDV-PRM-152
 - using user exits PDV-PRM-136
- controlling logical and physical units SNA-PRM-3
- controlling NEF/AX.25/XALCI SNA-PRM-47
- controlling tape operations APP-GDE-272
- controlling the network SNA-PRM-11
- controlling traces for C function trace
 - activating loadsets
 - E-type loader PDV-PRM-136
 - compile time PDV-PRM-134
 - controlling ECBs PDV-PRM-135
 - overview of PDV-PRM-134
 - selecting programs PDV-PRM-134
 - setting trace options PDV-PRM-134
 - system wide trace options PDV-PRM-134
- conversation CON-STR-183

- conversation control block (CCB) SNA-PRM-67
- conversation control block (CCB)
 - display a list of CCB IDs for a logical unit (LU) MIG-GD1-75
 - display by ordinal number MIG-GD1-75
 - display mapped conversation information MIG-GD1-75
- conversation control block entry
 - get GEN-MAC-269
- conversation control block identifier (CCB ID) SNA-PRM-67, SNA-PRM-71
- conversation control blocks (CCBs)
 - active
 - displaying OPR-GDE-923
 - basic conversation states
 - displaying OPR-GDE-923
 - CCB identifiers
 - displaying OPR-GDE-923
 - contents of
 - displaying OPR-GDE-923
 - initializing OPR-GDE-923
 - conversation states
 - displaying OPR-GDE-923
 - conversations
 - displaying OPR-GDE-923
 - ICCB DSECT OPR-GDE-923
 - inactive
 - displaying OPR-GDE-923
 - initializing OPR-GDE-923
 - mapped conversation states
 - displaying OPR-GDE-923
 - number defined
 - displaying OPR-GDE-978
 - ZNCCB command OPR-GDE-923
 - ZNKEY command OPR-GDE-978
- conversation states
 - basic
 - displaying OPR-GDE-923
 - mapped
 - displaying OPR-GDE-923
 - ZNCCB command OPR-GDE-923
- conversation verbs for TPF/APPC
 - basic conversation verbs SNA-PRM-71, SNA-PRM-72
 - mapped conversation verbs SNA-PRM-71
 - type-independent verbs SNA-PRM-71, SNA-PRM-72
- conversational security and TPF/APPC AR-USG-19
- conversion macros
 - #CONB macro SPM-35
 - #COND macro SPM-37
 - #CONH macro SPM-39
 - #CONP macro SPM-41
 - #CONS macro SPM-44
 - #CONT macro SPM-46
 - #CONX macro SPM-48
 - example of SPM-36, SPM-38, SPM-40, SPM-42, SPM-45, SPM-47, SPM-48
 - summary of SPM-10
- conversion
 - fixed record types GEN-MAC-340
- conversion (*continued*)
 - integer byte order CLAWGR-120
 - of record types GEN-MAC-340
 - convert an EVM address to an SVM address CLS-UGR-602
 - Convert an EVM Address to an SVM Address macro SYS-MAC-276
 - convert CPUID to processor ordinal number macro GEN-MAC-60
 - Convert EVM Address to SVM Address macro SYS-MAC-46
 - convert resource application interface CLS-UGR-295
 - convert resource application interface macro GEN-MAC-271
 - Convert SVM Address to EVM Address macro SYS-MAC-40
 - convert system ordinal number CLS-UGR-75
 - convert system ordinal number macro GEN-MAC-125
 - Convert Tape Status Table Pointer macro SYS-MAC-197
 - convert
 - application interface GEN-MAC-271
 - CPUID to processor ordinal number GEN-MAC-60
 - EVM address to SVM address SYS-MAC-46
 - FARF address GEN-MAC-125
 - ITSTB pointer SYS-MAC-197
 - LNIATA GEN-MAC-333
 - mmcchhr address GEN-MAC-125
 - NAU GEN-MAC-333
 - processor ordinal number to CPUID GEN-MAC-60
 - record type macro GEN-MAC-340
 - RID GEN-MAC-333
 - RVTx GEN-MAC-333
 - SCB GEN-MAC-333
 - SCBID GEN-MAC-333
 - SVM address to EVM address SYS-MAC-40
 - time GEN-MAC-397, GEN-MAC-504
 - converting assembler to C or C++ APP-GDE-145
 - converting file addresses CLS-UGR-592, GEN-MAC-191
 - converting symbolic file address CON-STR-105
 - converting
 - binary PID to an EBCDIC string CLS-UGR-1348
 - EBCDIC class name to index CLS-UGR-1234, CLS-UGR-1262
 - EBCDIC string PID to a binary PID CLS-UGR-1350
 - copy documentation for a class CLS-UGR-1258
 - copy documentation of a method CLS-UGR-1291
 - copy the file descriptor set CLS-UGR-135
 - copying a creation time stamp CLS-UGR-1272
 - copying individual system components INS-PRM-342
 - core block and file address release GEN-MAC-319
 - core block management
 - get block with ECB user exit INS-PRM-56
 - get block without ECB user exit INS-PRM-57
 - get common block with ECB user exit INS-PRM-58
 - get system work block INS-PRM-59
 - release block with ECB user exit INS-PRM-71
 - release block without ECB user exit INS-PRM-72
 - release common block with ECB user exit INS-PRM-73

- core block management (*continued*)
 - release system work block INS-PRM-74
- core block reference word GEN-MAC-5, GEN-MAC-14, GEN-MAC-17, GEN-MAC-18
- core block reference word (CBRW) APP-GDE-28, APP-GDE-238, APP-GDE-239, CON-STR-89
- core block reference word (CBRW)
 - description of APP-GDE-149
- core block release GEN-MAC-122
- core block unhook GEN-MAC-512
- core blocks
 - releasing SYS-MAC-117
- core image restart (CIMR)
 - components MIG-GD1-21, MIG-GD1-266
 - core resident programs MIG-GD1-14
 - overview MIG-GD1-9, MIG-GD1-21
- core image restart area component size SYS-GEN-330
- core level for occupied condition CLS-UGR-300
- core load mode number
 - See load mode number
- core lock program release CLS-UGR-425
- core resident SYS-GEN-37
- core resident program area (CRPA)
 - define for core resident programs MIG-GD1-221
 - overview MIG-GD1-10
 - pack programs into MIG-GD1-225
 - program size MIG-GD1-225
- core resident program
 - bypass the restart load process MIG-GD1-221
 - CLASS values MIG-GD1-219
 - define the core resident program area (CRPA) MIG-GD1-221
 - load methods MIG-GD1-221
 - lock into main storage MIG-GD1-225
 - memory utilization MIG-GD1-14
 - overview MIG-GD1-14
 - program allocation MIG-GD1-218
- core resident programs GEN-MAC-5
- core resident programs
 - allocating INS-PRM-402
 - selective loading during restart INS-PRM-197
- core resident
 - MDBF allocation considerations SYS-GEN-38
 - program area requirements SYS-GEN-38
 - program size SYS-GEN-38
 - user program allocation SYS-GEN-37
- corefast SYS-GEN-37
- corefast
 - changes MIG-GD1-216
- coreslow
 - changes MIG-GD1-216
- CORHC GEN-MAC-15
- CORHC macro GEN-MAC-101
- CORREQ macro SYS-GEN-229
- CORUC GEN-MAC-15
- CORUC macro GEN-MAC-103
- COS - Class of Service SNA-PRM-239
- COS (class of service) SNA-PRM-227
- COSY, tape control unit cross-reference table
 - SYS-GEN-53, SYS-GEN-264, SYS-GEN-494
- count queued blocks SYS-MAC-361
- count reconciliation, pool files DBS-REF-27
- counter, update sequence APP-GDE-108, APP-GDE-115, CON-STR-165
- coupling facility (CF) PSM-GDE-23
- coupling facility (CF) cache support
 - allocating a CF structure DBS-REF-227
 - benefits DBS-REF-242
 - cache system DBS-REF-242, DBS-REF-245
 - cache system elements DBS-REF-242
 - commands DBS-REF-225
 - concepts DBS-REF-241
 - connecting to a CF cache structure DBS-REF-230
 - connection states DBS-REF-227
 - coupling facility cache structure persistence DBS-REF-227
 - deregistering interest DBS-REF-246
 - disconnecting from a CF cache structure DBS-REF-234
 - elements of a cache system DBS-REF-242
 - elements of a CF cache structure DBS-REF-244
 - introduction DBS-REF-223
 - invalidating local copies DBS-REF-246
 - maintaining data consistency in a cache system DBS-REF-245
 - processor shared cache DBS-REF-243
 - processor unique cache DBS-REF-243
 - registering interest DBS-REF-245
 - structure attributes DBS-REF-226
 - structure concepts DBS-REF-226
 - terminology DBS-REF-241
 - validating local copies DBS-REF-245
- coupling facility (CF) lock
 - resetting OPR-GDE-762
 - ZMCFT RESETLOCK command OPR-GDE-762
- coupling facility (CF) record lock support
 - API changes MIG-GD2-664
 - architecture MIG-GD2-646
 - C/C++ language MIG-GD2-647
 - CINFC tags MIG-GD2-650
 - commands MIG-GD2-659
 - copy members MIG-GD2-650
 - database changes MIG-GD2-664
 - feature changes MIG-GD2-665
 - fixed file records MIG-GD2-653
 - functional changes MIG-GD2-659
 - functional overview MIG-GD2-646
 - host system changes MIG-GD2-664
 - installation validation MIG-GD2-665
 - interfaces MIG-GD2-647
 - loading process MIG-GD2-664
 - macros MIG-GD2-654
 - migration scenarios MIG-GD2-665
 - offline messages MIG-GD2-660
 - online messages MIG-GD2-660
 - online system load MIG-GD2-664
 - operating environment requirements MIG-GD2-647
 - operational changes MIG-GD2-659
 - overview MIG-GD2-9, MIG-GD2-646
 - performance changes MIG-GD2-663
 - planning information MIG-GD2-647
 - prerequisite APARs MIG-GD2-646

- coupling facility (CF) record lock support *(continued)*
 - publication changes MIG-GD2-664
 - segments MIG-GD2-656
 - SIP changes MIG-GD2-664
 - storage changes MIG-GD2-663
 - storage considerations MIG-GD2-663
 - system equates MIG-GD2-659
 - system errors MIG-GD2-660
 - system generation changes MIG-GD2-664
 - tuning changes MIG-GD2-663
 - user exits MIG-GD2-659
- coupling facility (CF) structure names PSM-GDE-23
- coupling facility (CF) support
 - allocating a CF structure DBS-REF-227
 - API changes MIG-GD2-461
 - architecture MIG-GD2-450
 - blocks
 - coupling facility connection block (CFCB) DBS-REF-248
 - coupling facility request block (CFRB) DBS-REF-248
 - coupling facility structure block (CFSB) DBS-REF-248
 - coupling facility vector block (CFVB) DBS-REF-248
 - C/C++ language MIG-GD2-451
 - CF cache structure concepts DBS-REF-241
 - CF cache structure terminology DBS-REF-241
 - CF cache support DBS-REF-223
 - CF list structure concepts DBS-REF-235
 - CFCONC answer area
 - successful completion of a connection DBS-REF-233
 - CFVCTC macro DBS-REF-239
 - checking a list notification vector DBS-REF-239
 - CINFC tags MIG-GD2-454
 - command scenario DBS-REF-225
 - commands DBS-REF-225, MIG-GD2-458
 - concepts, CF cache structure DBS-REF-241
 - concepts, CF list structure DBS-REF-235
 - CONKC tags MIG-GD2-454
 - connecting to a CF list structure DBS-REF-230
 - connection parameters DBS-REF-237
 - connection services DBS-REF-224
 - connection states DBS-REF-227
 - copy members MIG-GD2-454
 - coupling facility lock format DBS-REF-249
 - coupling facility locking functions DBS-REF-249
 - coupling facility structure attributes DBS-REF-226
 - data sharing concepts DBS-REF-223
 - data sharing terminology DBS-REF-223
 - database changes MIG-GD2-461
 - disconnecting from a CF list structure DBS-REF-234
 - exit routines
 - defining DBS-REF-251
 - issuing the CFCONC macro DBS-REF-239, DBS-REF-251
 - list transition exit routine DBS-REF-239, DBS-REF-251
 - overview DBS-REF-239
 - feature changes MIG-GD2-461

- coupling facility (CF) support *(continued)*
 - fixed file records MIG-GD2-455
 - functional changes MIG-GD2-458
 - functional overview MIG-GD2-450
 - host system changes MIG-GD2-461
 - installation validation MIG-GD2-461
 - interfaces MIG-GD2-450
 - introduction DBS-REF-223
 - list notification vector DBS-REF-239
 - loading process MIG-GD2-460
 - macros MIG-GD2-455
 - maintaining data in a coupling facility list structure DBS-REF-237
 - migration scenarios MIG-GD2-461
 - modifying a list notification vector DBS-REF-239
 - offline messages MIG-GD2-459
 - online messages MIG-GD2-459
 - online system load MIG-GD2-461
 - operating environment requirements MIG-GD2-450
 - operational changes MIG-GD2-458
 - overview MIG-GD2-9, MIG-GD2-450
 - performance changes MIG-GD2-460
 - planning information MIG-GD2-450
 - prerequisite APARs MIG-GD2-450
 - publication changes MIG-GD2-461
 - segments MIG-GD2-458
 - serialized list structure DBS-REF-235, DBS-REF-249
 - SIP changes MIG-GD2-460
 - storage changes MIG-GD2-460
 - storage considerations MIG-GD2-460
 - storage dump format DBS-REF-248
 - storing data in a coupling facility list structure DBS-REF-237
 - structure concepts DBS-REF-226
 - system equates MIG-GD2-458
 - system errors MIG-GD2-459
 - system generation changes MIG-GD2-460
- tables
 - control table (CFCT) DBS-REF-247
 - coupling facility status table (CFST) DBS-REF-247
 - coupling facility trace table (CFTT) DBS-REF-248
 - message subchannel table (MSCT) DBS-REF-248
- terminology, CF cache structure DBS-REF-241
- tuning changes MIG-GD2-460
- user exits MIG-GD2-458
- user-modified equates DBS-REF-249

- coupling facility (CF)
 - adding OPR-GDE-754
 - adding to locking configuration OPR-GDE-196
 - clearing coupling facility (CF) structures OPR-GDE-755
 - delete logical record caches OPR-GDE-186
 - deleting OPR-GDE-756
 - deleting from the CF locking configuration OPR-GDE-198
 - deleting lock names OPR-GDE-330
 - disable processor shared caches OPR-GDE-186
 - display CF cache structures OPR-GDE-194

coupling facility (CF) *(continued)*

- display logical record caches OPR-GDE-186
- displaying lock names OPR-GDE-332
- displaying locking configuration OPR-GDE-199
- displaying status OPR-GDE-757
- displaying trace table entries OPR-GDE-291
- enable processor shared caches OPR-GDE-186
- enabling OPR-GDE-759
- flush logical record caches OPR-GDE-186
- initializing the locking configuration OPR-GDE-201
- manage CF cache structures OPR-GDE-194
- manage logical record caches OPR-GDE-186
- migrating in the CF locking configuration OPR-GDE-202
- migrating lock residency OPR-GDE-202
- modify CF cache structures OPR-GDE-194
- modify logical record caches OPR-GDE-186
- remove CF cache structures OPR-GDE-194
- remove logical record caches OPR-GDE-186
- removing OPR-GDE-760
- resetting locks OPR-GDE-762
- ZCACH command OPR-GDE-186
- ZCFCH command OPR-GDE-194
- ZCFLK ADD command OPR-GDE-196
- ZCFLK DELETE command OPR-GDE-198
- ZCFLK DISPLAY command OPR-GDE-199
- ZCFLK INITIALIZE command OPR-GDE-201
- ZCFLK MIGRATE command OPR-GDE-202
- ZDCFT command OPR-GDE-291
- ZDLCK DELETE command OPR-GDE-330
- ZDLCK DISPLAY command OPR-GDE-332
- ZMCFT ADD command OPR-GDE-754
- ZMCFT CLEAR command OPR-GDE-755
- ZMCFT DELETE command OPR-GDE-756
- ZMCFT DISPLAY command OPR-GDE-757
- ZMCFT ENABLE command OPR-GDE-759
- ZMCFT REMOVE command OPR-GDE-760
- ZMCFT RESETLOCK command OPR-GDE-762

Coupling Facility Caching Summary report SPM-PRM-29

coupling facility connection block (CFCB)
description DBS-REF-248

coupling facility control table (CFCT)
description DBS-REF-247

coupling facility functions

- deleteCache CLS-UGR-81
- deleteCacheEntry CLS-UGR-82
- flushCache CLS-UGR-198
- newCache CLS-UGR-376
- readCacheEntry CLS-UGR-413
- tpf_cfconc CLS-UGR-564
- tpf_cfdisc CLS-UGR-570
- updateCacheEntry CLS-UGR-673

Coupling Facility Locking Summary report SPM-PRM-29

coupling facility record lock support

- activating CF locks DBS-REF-258
- CF list structure size DBS-REF-258
- changing the complex name DBS-REF-258
- changing the lock name DBS-REF-258
- command scenario DBS-REF-256

coupling facility record lock support *(continued)*

- commands DBS-REF-256
- concepts DBS-REF-255
- coupling facility locking table (CFLT) DBS-REF-257
- introduction DBS-REF-255
- list structures for locking DBS-REF-255
- lock maintenance CON-STR-104
- loosely coupled considerations CON-STR-139
- overview CON-STR-50
- parallel processing CON-STR-50
- user modification considerations DBS-REF-258

coupling facility request block (CFRB)
description DBS-REF-248

Coupling Facility Request macro SYS-MAC-148

coupling facility status table (CFST)
description DBS-REF-247

coupling facility structure block (CFSB)
description DBS-REF-248

Coupling Facility Structure Summary report SPM-PRM-29

coupling facility support CON-STR-50

coupling facility trace table (CFTT)
description DBS-REF-248
displaying OPR-GDE-291
ZDCFT command OPR-GDE-291

Coupling Facility Usage Summary report SPM-PRM-29

coupling facility vector block (CFVB)
description DBS-REF-248

coupling facility

- getting a work block address SYS-MAC-254
- releasing a work block address SYS-MAC-396

coverage display tools
overview MIG-GD2-10

COVX (NAU conversion program) SNA-PRM-287

CP (control program) table SYS-GEN-178

CP calling routine return SYS-MAC-409

CP dsect SYS-MAC-168

CP executable code

- convert nonintercept modifications MIG-GD1-233
- data collection MIG-GD1-233
- nonintercept modifications MIG-GD1-233

CP Find a File Record macro SYS-MAC-29

CP interface GEN-MAC-66

CP linkage SYS-MAC-166

CP subroutine interface SYS-MAC-210

CP TRACE facility

- program event recording (PER) facility MIG-GD1-301

CP user exits PDV-PRM-151

CP-CP sessions

- activating SNA-PRM-204
- deactivating SNA-PRM-204
- ending OPR-GDE-969
- host that has them
 - displaying OPR-GDE-921
 - starting OPR-GDE-964
- ZNAPN command OPR-GDE-921
- ZNETW ACT command OPR-GDE-964
- ZNETW INACT command OPR-GDE-969

CPC (central processing complex) GIM-7

CPCB (Contact Point Control Block) SNA-PRM-326

CPDSC macro SYS-MAC-168

CPLKC macro SYS-MAC-169
 CPP (C++ language source table) SYS-GEN-180
 CPRND macro SYS-MAC-172
 CPU affinity CON-STR-47
 CPU affinity
 advantage CON-STR-48
 application I-stream engine CON-STR-48
 disadvantage CON-STR-48
 main I-stream engine CON-STR-48
 CPU control APP-GDE-153
 CPU external interrupts INS-PRM-29
 CPU ID MSP-PRM-4
 CPU ID
 displaying OPR-GDE-363
 ZDSID command OPR-GDE-363
 CPU lists SPM-PRM-24
 CPU loop CON-STR-56, CON-STR-58, CON-STR-61,
 MSP-PRM-20
 CPU loop list CON-STR-61, CON-STR-76
 CPU loop list
 See *also* processing list
 add an item to list CON-STR-76
 control transfer CON-STR-83
 create new ECB and transfer control macro (CXFRC)
 CON-STR-83
 cross list CON-STR-61, CON-STR-84
 deferred list CON-STR-61
 delete an item from list CON-STR-76
 input list CON-STR-61
 priority CON-STR-61
 ready list CON-STR-61
 CPU loop
 control levels
 changing OPR-GDE-48
 displaying OPR-GDE-292
 cross list CON-STR-58
 deferred list CON-STR-58
 input list CON-STR-58
 lists MSP-PRM-21
 processing CON-STR-76
 ready list CON-STR-58
 running in all other I-stream engines CON-STR-84
 running in the main I-stream engine CON-STR-84
 shutdown levels MIG-GD1-216
 summary of processing CON-STR-58
 ZACLV command OPR-GDE-48
 ZDCLV command OPR-GDE-292
 CPU parameter for channel definitions, TPF MQSeries
 APP-GDE-86
 CPU timer interrupts INS-PRM-30
 CPU
 checking the ID SPM-13
 checking the ID
 example of SPM-22
 CPUID parameter
 ANTDEF statement ACF-GDE-35
 ANTNME statement ACF-GDE-36
 CDRM statement ACF-GDE-39
 EXEC PARM field ACF-GDE-29
 CR allocation SYS-GEN-37
 CRAS SNA-PRM-49
 CRAS - get file pool address switch SYS-MAC-373
 CRAS message format PSM-GDE-3
 CRAS state MSP-PRM-6
 CRAS state
 cycling to OPR-GDE-239
 description of OPR-GDE-10
 ZCYCL command OPR-GDE-239
 CRAS status table CLS-UGR-51, SYS-MAC-175
 CRAS Support (DCSR-CRAS) DCS-PRM-15
 CRAS Support (DCSR-CRAS)
 addition of a new FSC name DCS-PRM-30
 control, audit, and reconstruction DCS-PRM-29
 data areas and input/output DCS-PRM-27
 general description DCS-PRM-15
 installation information DCS-PRM-34
 program modification aids DCS-PRM-30
 program organization DCS-PRM-28
 system configuration DCS-PRM-32
 CRAS table macro SYS-GEN-130
 CRASC macro SYS-MAC-173
 CRAFTB macro SYS-GEN-234
 CRATC macro SYS-MAC-175
 create GEN-MAC-12
 create a child process CLS-UGR-594
 create a deferred entry macro GEN-MAC-105
 create a low priority deferred entry macro
 GEN-MAC-120
 create a low-priority deferred entry macro (CREXC)
 CON-STR-88
 create a macro group definition SYS-MAC-179
 create a new context (CTX) structure
 SSL API function, SSL_CTX_new CLAWGR-285
 create a new ECB CON-STR-83, CON-STR-88
 Create a New ECB and Transfer Control macro
 SYS-MAC-204
 create a new ECB and transfer control macro (CXFRC)
 CON-STR-83
 create a new ECB and transfer control macro (CXFRC)
 mode of operation CON-STR-83
 create a new ECB for immediate entry macro
 GEN-MAC-110
 create a new ECB for immediate entry macro (CREMC)
 CON-STR-88
 Create a New ECB with Attached Core Blocks macro
 GEN-MAC-107
 create a new ECB with attached core blocks macro
 (CREEC) CON-STR-88
 create a new Entry CON-STR-88
 create a new file or rewrite an existing file CLS-UGR-54
 create a new logical record cache CLS-UGR-376
 create a new SSL structure for use by an SSL session
 SSL API function, SSL_new CLAWGR-317
 Create a New synchronous ECB GEN-MAC-112
 create a time-initiated entry macro GEN-MAC-116
 create a time-initiated entry macro (CRETC)
 CON-STR-88
 Create an Asynchronous ECB macro SYS-MAC-32
 create an endpoint for communication
 socket API function, socket CLAWGR-223
 Create an SVC/Fast-Link Table Entry macro
 SYS-MAC-180

create an unnamed pipe CLS-UGR-391
 create deferred entry
 deferred entry CLS-UGR-57
 create dummy recoup descriptors
 ZRBKD command OPR-GDE-1141
 create functions APP-GDE-228
 create functions
 credc function APP-GDE-229
 creec function APP-GDE-229
 cremc function APP-GDE-229
 cretc_level function APP-GDE-229
 cretc function APP-GDE-229
 crexc function APP-GDE-229
 cxfrc function APP-GDE-229
 sipcc function APP-GDE-229
 swisc function APP-GDE-229
 system function APP-GDE-229
 tpf_cresc function APP-GDE-229
 create immediate entry CLS-UGR-62
 create low-priority deferred entry CLS-UGR-69
 Create macro processing INS-PRM-31
 create macro
 display control levels MIG-GD1-272
 modify control levels MIG-GD1-272
 create macros CON-STR-88, MSP-PRM-15
 create macros
 create a low-priority deferred entry macro (CREXC)
 CON-STR-88
 create a new ECB for immediate entry macro
 (CREMC) CON-STR-88
 create a new ECB with attached core blocks macro
 (CREEC) CON-STR-88
 create a time-initiated entry macro (CRETC)
 CON-STR-88
 create new synchronous ECBs macro (CRESC)
 CON-STR-88
 types CON-STR-88
 CREATE macros
 control levels
 changing OPR-GDE-48
 displaying OPR-GDE-292
 ZACLV command OPR-GDE-48
 ZDCLV command OPR-GDE-292
 create new directory records
 ZPOOL GENERATION command OPR-GDE-1121
 create new ECB on specified I-stream CLS-UGR-518
 create new synchronous ECBs (CRESC) CON-STR-88
 create PDU exclusion table
 ZRPDU CREATE command OPR-GDE-1224
 create synchronous child ECBs CLS-UGR-572
 create time-initiated entry CLS-UGR-64, CLS-UGR-66
 Create User Storage Allocation Table macro
 SYS-MAC-501
 create
 deferred entry GEN-MAC-105
 ECB GEN-MAC-338, SYS-MAC-204,
 SYS-MAC-467
 ECB for immediate entry GEN-MAC-110
 ecb with attached core blocks GEN-MAC-107
 low priority deferred entry GEN-MAC-120
 macros GEN-MAC-12
 create (*continued*)
 time-initiated entry GEN-MAC-116
 user storage allocation table SYS-MAC-501
 creates a new CTX structure for use by shared SSL
 sessions.
 SSL API function, SSL_CTX_new_shared
 CLAWGR-287
 creates a new set of cipher keys for an existing SSL
 session
 SSL API function, SSL_renegotiate CLAWGR-320
 creating a compacted display of the IP trace table
 CLAWGR-410
 creating a formatted display of the IP trace table
 CLAWGR-410
 creating collections APP-GDE-106
 creating entries in the RIAT, RIATA FINISH
 SYS-GEN-304
 creating entries in the RIAT, RIATA ID SYS-GEN-305
 creating entries in the RIAT, RIATA START
 SYS-GEN-311
 creating records PDV-PRM-23
 creating the SNMP configuration file CLAWGR-96
 creating the TFTP configuration file CLAWGR-241
 creating the TPF Internet mail server configuration files
 CLAWGR-259
 creating TPFAR continuous data collection
 ZCDCO command OPR-GDE-190
 Creating translation tables APP-GDE-317
 creating
 adding or replacing data to a BLOB CLS-UGR-917
 BLOB CLS-UGR-949
 data definition CLS-UGR-1238
 data store definition CLS-UGR-1240,
 CLS-UGR-1242
 empty array collection CLS-UGR-937
 empty persistent array collection CLS-UGR-933
 environment block CLS-UGR-874
 immediate entry CLS-UGR-62
 link to a file CLS-UGR-302
 locking cursor CLS-UGR-1131
 low-priority deferred entry CLS-UGR-69
 new ECB with an attached block CLS-UGR-59
 nonlocking cursor CLS-UGR-1129
 option list CLS-UGR-990
 PID associated index CLS-UGR-998,
 CLS-UGR-1040
 PID inventory key CLS-UGR-1244
 symbolic link to path name CLS-UGR-521
 synchronous child ECB CLS-UGR-572
 temporary file CLS-UGR-551, CLS-UGR-552
 temporary
 bag CLS-UGR-941, CLS-UGR-982
 BLOB CLS-UGR-947
 collection CLS-UGR-897
 copy CLS-UGR-929
 key bag CLS-UGR-956
 key set CLS-UGR-968
 key sorted bag CLS-UGR-974, CLS-UGR-976
 key sorted set CLS-UGR-980
 keyed log CLS-UGR-962
 log CLS-UGR-986

creating *(continued)*
 temporary *(continued)*
 persistent identifier (PID) CLS-UGR-935
 sequence collection CLS-UGR-1002
 set CLS-UGR-1008
 sorted bag collection CLS-UGR-901,
 CLS-UGR-1015
 sorted set collection CLS-UGR-1021
 time stamp CLS-UGR-1272
 time-initiated entry CLS-UGR-64, CLS-UGR-66
 TPF collection support
 bag CLS-UGR-943
 BLOB CLS-UGR-945
 copy and returning its PID CLS-UGR-931
 key bag CLS-UGR-954, CLS-UGR-958
 key set CLS-UGR-966, CLS-UGR-970
 key sorted bag CLS-UGR-972
 key sorted set CLS-UGR-978
 keyed log CLS-UGR-960, CLS-UGR-964
 log CLS-UGR-984, CLS-UGR-988
 sequence collection CLS-UGR-1000,
 CLS-UGR-1004
 set collection CLS-UGR-1006, CLS-UGR-1010
 sorted bag collection CLS-UGR-1013
 sorted set collection CLS-UGR-1019
 CREDC MSP-PRM-15
 CREDC macro GEN-MAC-105
 CREEC MSP-PRM-15
 CREEC macro GEN-MAC-107
 CREGPC macro MSP-PRM-20, SYS-MAC-179
 CREMC MSP-PRM-15
 CREMC macro GEN-MAC-110
 CRESC macro GEN-MAC-112
 CRESVC macro MSP-PRM-19, MSP-PRM-20,
 SYS-MAC-180
 CRESVC macro
 macro authorization MIG-GD1-305
 CRETC MSP-PRM-15
 CRETC macro GEN-MAC-116, MSP-PRM-25
 CRETC macro
 overview MIG-GD1-10
 CREXC MSP-PRM-15
 CREXC macro GEN-MAC-120
 critical code CON-STR-55
 critical message macro SYS-MAC-200
 critical record filing processing INS-PRM-33
 critical record filing
 changes MIG-GD1-234
 description MIG-GD1-234
 maximum number MIG-GD1-234
 critical region CON-STR-23, CON-STR-29,
 CON-STR-44
 critical region
 serially reusable program CON-STR-42
 CROSC macro MSP-PRM-34, SYS-MAC-185
 cross list CON-STR-61, CON-STR-84
 cross list
 structure CON-STR-85
 Cross Over to Another I-stream macro SYS-MAC-22
 cross subsystem access services MSP-PRM-34
 cross subsystem access services
 macros MSP-PRM-34
 cross-domain communication SNA-PRM-12
 cross-domain links SNA-PRM-12
 cross-domain links
 activating and enabling SNA-PRM-14
 cross-domain resource (CDRSC) SNA-PRM-46
 cross-domain resource manager (CDRM) SNA-PRM-14
 cross-domain resource manager (CDRM) resource
 activating OPR-GDE-964
 adding OPR-GDE-953
 changing OPR-GDE-956
 channel-to-channel (CTC) link
 displaying OPR-GDE-917
 creating OPR-GDE-953
 deactivating OPR-GDE-969
 defining OPR-GDE-953, OPR-GDE-1002
 deleting OPR-GDE-1002
 list of
 displaying OPR-GDE-968
 logical unit (LU)
 displaying OPR-GDE-946
 maximum number per processor
 displaying OPR-GDE-978
 network command status table
 displaying OPR-GDE-997
 nondisruptive deactivation OPR-GDE-969
 path information unit (PIU)
 displaying OPR-GDE-1012
 tracing OPR-GDE-1052
 redefining OPR-GDE-956
 resource definitions
 changing OPR-GDE-956
 creating OPR-GDE-953
 resource ID
 displaying OPR-GDE-958
 resource name
 changing OPR-GDE-956
 defining OPR-GDE-953
 RNH tables
 displaying OPR-GDE-958
 RNHET address
 displaying OPR-GDE-958
 RNHPT address
 displaying OPR-GDE-958
 RVT address
 displaying OPR-GDE-958
 RVT entry
 displaying OPR-GDE-1038
 initializing OPR-GDE-1042
 status
 displaying OPR-GDE-917, OPR-GDE-968
 subarea
 changing OPR-GDE-956
 defining OPR-GDE-953
 tracing OPR-GDE-1052
 ZNALS command OPR-GDE-917
 ZNDLU command OPR-GDE-946
 ZNDYN ADD command OPR-GDE-953
 ZNDYN CHANGE command OPR-GDE-956
 ZNDYN DISPLAY command OPR-GDE-958

cross-domain resource manager (CDRM) resource
(*continued*)
 ZNETW ACT command OPR-GDE-964
 ZNETW DISPLAY command OPR-GDE-968
 ZNETW INACT command OPR-GDE-969
 ZNKEY command OPR-GDE-978
 ZNNCS command OPR-GDE-997
 ZNOPL LOAD command OPR-GDE-1002
 ZNPIU command OPR-GDE-1012
 ZNRVT command OPR-GDE-1038
 ZNRVT INITIALIZE command OPR-GDE-1042
 ZNTRP command OPR-GDE-1052

cross-domain resource manager (CDRM)
 establishing path between SNA-PRM-12

cross-domain sessions
 requesting SNA-PRM-14

cross-domain support SNA-PRM-45

cross-domain takedown (CDTAKED) SNA-PRM-202

Cross-Subsystem Access Service Request macro
 SYS-MAC-185

cross-subsystem access service request macro
 (CROSC) CON-STR-136

cross-subsystem services definition table (CGOT)
 changes MIG-GD1-217

cross-subsystem to enter a program and return
 CLS-UGR-71

crossover to another I-stream macro (\$CRISC)
 CON-STR-87

CRT (C language real-time table) SYS-GEN-179

CRUSA macro GEN-MAC-122

CS2A SNA-PRM-100

CSECT statements, use of global variables
 PSM-GDE-27

CSK user exit APP-GDE-225

CSMP SNA-PRM-49

CSMP messages GEN-MAC-559

CSNB segment
 accessing NCB records SNA-PRM-190

CSOAC macro GEN-MAC-125

CSXA SNA-PRM-107

CSXB SNA-PRM-107

CSXC SNA-PRM-107

CT25 user exit
 use to initialize CINFC labels MIG-GD1-232

CT26 initialization SYS-MAC-501

CT99 user exit
 use to initialize CINFC labels MIG-GD1-232

CTC (channel-to-channel) link station AR-USG-19

CTC (channel-to-channel) link station
 considerations AR-USG-98
 read buffers and SNAKEY AR-USG-98

CTC (channel-to-channel)
 activation of virtual route SNA-PRM-229
 channel contact SNA-PRM-223
 considerations with FID4 SNA-PRM-222,
 SNA-PRM-223
 considerations with System network Interconnection
 (SNI) SNA-PRM-234
 data transfer SNA-PRM-11
 deactivation of virtual route SNA-PRM-230
 pre-channel contact/priming SNA-PRM-222

CTC (channel-to-channel) (*continued*)
 slowdown SNA-PRM-277

CTC (Channel-to-Channel)
 data transfer SNA-PRM-11

CTC headers
 displaying OPR-GDE-1012
 tracing OPR-GDE-1052
 ZNPIU command OPR-GDE-1012
 ZNTRP command OPR-GDE-1052

CTC resource
 define MIG-GD1-252, MIG-GD1-254

CTC resources
 defining ACF-GDE-45, ACF-GDE-49

CTC statement
 CLU parameter ACF-GDE-50
 ctcname parameter ACF-GDE-50
 description of ACF-GDE-49
 example ACF-GDE-62
 offline ACF/SNA table generation (OSTG) changes
 MIG-GD1-252
 QN parameter ACF-GDE-50
 REMOTE parameter ACF-GDE-51
 SUBAREA parameter ACF-GDE-50
 TG2SDA parameter ACF-GDE-50
 VRILTO parameter ACF-GDE-51
 VRTO parameter ACF-GDE-51
 WINSIZE parameter ACF-GDE-50

CTCANS parameter
 SNAKEY macro ACF-GDE-14

ctcname parameter
 CTC statement ACF-GDE-50

CTCNODES ACF-GDE-34

CTCP (Communication and Transmission Control
 Program) SNA-PRM-29, SNA-PRM-317

CTCP (Communication and Transmission Control
 Program)
 activating for GATE/FTPI SNA-PRM-36
 control block residence SNA-PRM-326
 definition for GATE/FTPI SNA-PRM-36
 functions SNA-PRM-321
 input data message processing SNA-PRM-335
 output data message processing SNA-PRM-335
 sample implementation using PSVs SNA-PRM-321
 user control blocks SNA-PRM-322

CTCRBFR parameter
 SNAKEY macro ACF-GDE-14, ACF-GDE-21

CTCTGANY parameter
 SNAKEY macro ACF-GDE-14

CTCWBFRR parameter
 SNAKEY macro ACF-GDE-14, ACF-GDE-21

CTK0 keypoint MSP-PRM-13, OPR-GDE-14,
 SYS-GEN-75

CTK1 keypoint MSP-PRM-13, OPR-GDE-14,
 SYS-GEN-75

CTK2 SNA-PRM-67

CTK2 (keypoint 2) AR-USG-14, AR-USG-17

CTK2 keypoint MSP-PRM-13, OPR-GDE-14,
 OPR-GDE-973, SYS-GEN-75

CTK3 keypoint MSP-PRM-13, OPR-GDE-14,
 SYS-GEN-75

- CTK4 keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTK5 keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTK6 keypoint MSP-PRM-14, OPR-GDE-15, SYS-GEN-76
- CTK9 keypoint MSP-PRM-14, OPR-GDE-15, SYS-GEN-76
- CTKA communication options SYS-GEN-127
- CTKA communication options
 - non-SNA support macros SYS-GEN-131
 - SNA requirements SYS-GEN-132
- CTKA keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKB keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKC keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKD keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKE SNA-PRM-48
- CTKE keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKI (keypoint I) AR-USG-22
- CTKI keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKL macro SYS-MAC-189
- CTKM keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTKS MSP-PRM-6
- CTKV keypoint MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- CTL dumps GEN-MAC-357
- CTL dumps
 - overview MIG-GD1-13
- CTRC user exit
 - for C function trace PDV-PRM-136, PDV-PRM-151
- CUAG program
 - form control buffer OPR-GDE-100
 - ZAURS FCBL command OPR-GDE-100
- CUAH program
 - universal character set OPR-GDE-103
 - ZAURS LUCS command OPR-GDE-103
- CUAI program
 - universal character set OPR-GDE-103
 - ZAURS LUCS command OPR-GDE-103
- CUDP MSP-PRM-43
- CUR (C language user real-time table) SYS-GEN-179
- current DD attribute values, getting CLS-UGR-1274
- current directory CON-STR-152
- current directory for RRN, getting CLS-UGR-1276
- current entry
 - delay processing CLS-UGR-90
- current file position, changing CLS-UGR-226
- current file position
 - effects of ungetc and ungetwc CLS-UGR-226
- current NCB directory record OPR-GDE-995
- current NCB directory record
 - staged NCB directory records
 - copying to OPR-GDE-995
 - switching to OPR-GDE-995
 - current NCB directory record (*continued*)
 - ZNNCB REORG command OPR-GDE-995
- current RRT definitions
 - alternate RRT definitions
 - falling back to OPR-GDE-1000
 - description of OPR-GDE-1007
 - reloading OPR-GDE-999
 - resource vector table (RVT)
 - merging OPR-GDE-1004
 - status of
 - displaying OPR-GDE-1007
 - updating OPR-GDE-1011
 - ZNOPL BUILD command OPR-GDE-999
 - ZNOPL FALLBACK command OPR-GDE-1000
 - ZNOPL MERGE command OPR-GDE-1004
 - ZNOPL STATUS command OPR-GDE-1007
 - ZNOPL UPDATE command OPR-GDE-1011
- current validation and reconstruct support
 - DBS-REF-219
- current ZBROW qualification
 - ZBROW QUALIFY command OPR-GDE-154
- cursor AR-USG-29
- cursor API collection summary table CLS-UGR-1113, CLS-UGR-1114
- cursor functions, TPFCS
 - T02_addAtCursor CLS-UGR-1115
 - T02_allElementsDo CLS-UGR-1117
 - T02_atCursor CLS-UGR-1119
 - T02_atCursorPut CLS-UGR-1121
 - T02_atCursorWithBuffer CLS-UGR-1123
 - T02_atEnd CLS-UGR-1125
 - T02_atLast CLS-UGR-1127
 - T02_createCursor CLS-UGR-1129
 - T02_createReadWriteCursor CLS-UGR-1131
 - T02_cursorMinus CLS-UGR-1133
 - T02_cursorPlus CLS-UGR-1135
 - T02_deleteCursor CLS-UGR-1137
 - T02_first CLS-UGR-1139
 - T02_index CLS-UGR-1145
 - T02_isEmpty CLS-UGR-1147
 - T02_key CLS-UGR-1149
 - T02_keyWithBuffer CLS-UGR-1151
 - T02_last CLS-UGR-1153
 - T02_locate CLS-UGR-1155
 - T02_more CLS-UGR-1157
 - T02_next CLS-UGR-1159
 - T02_nextPut CLS-UGR-1161
 - T02_nextRBAfor CLS-UGR-1163
 - T02_nextWithBuffer CLS-UGR-1165
 - T02_peek CLS-UGR-1168
 - T02_peekWithBuffer CLS-UGR-1170
 - T02_previous CLS-UGR-1172
 - T02_previousWithBuffer CLS-UGR-1174
 - T02_remove CLS-UGR-1176
 - T02_reset CLS-UGR-1178
 - T02_setPositionIndex CLS-UGR-1182
 - T02_setPositionValue CLS-UGR-1184
 - information about APP-GDE-109, CLS-UGR-1185
- cursor movement APP-GDE-113
- cursor positioning APP-GDE-110

- cursor support CLS-UGR–1113, CLS-UGR–1185, CON-STR–165
- cursor
 - definition of AR-USG–111
 - maximum number AR-USG–29
 - using the same cursor in SQL source programs AR-USG–41
- cursors DBS-REF–140
- cursors, key path support DBS-REF–141
- CUSR INS-PRM–4
- Customer Information Control System (CICS) CON-STR–6
- customizing trace environment
 - CDEB user exit PDV-PRM–151
 - CDEB user exit for C function trace PDV-PRM–136
- customizing trace information for C function trace
 - breakpoints PDV-PRM–137
 - overview PDV-PRM–151
 - using user exits PDV-PRM–151
- customizing
 - C language support APP-GDE–301
 - C++ language support APP-GDE–301
 - TFTP server APP-GDE–174
- CVTPC macro SYS-MAC–197
- CWRTC macro SYS-MAC–200
- CX0CK keypoint SYS-GEN–330
- CXELTY tags SYS-MAC–384
- CXFRC MSP-PRM–15
- CXFRC macro SYS-MAC–204
- CXFRC macro
 - changes MIG-GD1–229
- CY3BON field
 - description MIG-GD1–247
- CY3DIR field
 - description MIG-GD1–247
 - ordinal restrictions MIG-GD1–247
- CY3ORD field
 - description MIG-GD1–247
- cycle down CON-STR–139
- Cycle Down Utility CP Interface macro SYS-MAC–210
- cycle up, restarting TPFCS CLS-UGR–1334
- cycle-down MSP-PRM–5
- cycle-up MSP-PRM–5
- cyclic check characters SNA-PRM–46
- CYCPC macro GEN-MAC–127
- CYDNC macro SYS-MAC–210
- cylinder analysis report SPM-PRM–47

D

- DAEMON process model APP-GDE–173, APP-GDE–177, APP-GDE–181
- daemon
 - Internet CON-STR–188
 - syslog CON-STR–189
- DASD GIM–29
- DASD (direct storage access device)
 - capturing OPR-GDE–403
 - error counts
 - altering OPR-GDE–1270
 - displaying OPR-GDE–1281
 - error limits
 - altering OPR-GDE–1273

- DASD (direct storage access device) *(continued)*
 - error limits *(continued)*
 - displaying OPR-GDE–1284
 - falling back OPR-GDE–11
 - file copy
 - altering module status OPR-GDE–767, OPR-GDE–773
 - copying all files OPR-GDE–765
 - displaying file copy status OPR-GDE–772
 - limiting copies OPR-GDE–770
 - pausing OPR-GDE–768
 - restarting OPR-GDE–769
 - stopping OPR-GDE–764
 - lost interrupt recovery
 - displaying time interval for OPR-GDE–1285
 - setting time interval for OPR-GDE–1275
 - paths
 - bringing online OPR-GDE–1113
 - displaying status of OPR-GDE–1113
 - RCS state change pending monitor
 - displaying time interval for OPR-GDE–1287
 - setting time interval for OPR-GDE–1279
 - restoring OPR-GDE–566
 - scan time value
 - displaying OPR-GDE–1286
 - specifying OPR-GDE–1277
 - status
 - changing OPR-GDE–69
 - displaying OPR-GDE–342, OPR-GDE–345
 - stop capturing OPR-GDE–408
 - volume serial number
 - changing OPR-GDE–107
 - displaying OPR-GDE–397
 - ZAMOD command OPR-GDE–69
 - ZAVSN command OPR-GDE–107
 - ZDMFS command OPR-GDE–342
 - ZDMOD command OPR-GDE–345
 - ZDVSN command OPR-GDE–397
 - ZFCAP ABORT command OPR-GDE–408
 - ZFCAP command OPR-GDE–403
 - ZFRST CAP command OPR-GDE–566
 - ZMCPY ABORT command OPR-GDE–764
 - ZMCPY ALL command OPR-GDE–765
 - ZMCPY DOWN command OPR-GDE–767
 - ZMCPY PAUSE command OPR-GDE–768
 - ZMCPY RESTART command OPR-GDE–769
 - ZMCPY SET command OPR-GDE–770
 - ZMCPY STATUS command OPR-GDE–772
 - ZMCPY UP command OPR-GDE–773
 - ZPATH command OPR-GDE–1113
 - ZSONS ALTER ERROR COUNTS command OPR-GDE–1270
 - ZSONS ALTER ERROR LIMITS command OPR-GDE–1273
 - ZSONS ALTER HALT command OPR-GDE–1275
 - ZSONS ALTER SCAN command OPR-GDE–1277
 - ZSONS ALTER SCP command OPR-GDE–1279
 - ZSONS DISPLAY ERROR COUNTS command OPR-GDE–1281
 - ZSONS DISPLAY ERROR LIMITS command OPR-GDE–1284

DASD (direct storage access device) *(continued)*
 ZSONS DISPLAY HALT command OPR-GDE-1285
 ZSONS DISPLAY SCAN command OPR-GDE-1286
 ZSONS DISPLAY SCP command OPR-GDE-1287
 DASD control unit
 external lock facility (XLF) CON-STR-21,
 CON-STR-32
 limited lock facility (LLF) CON-STR-32
 loosely-coupled complex CON-STR-144
 module record cache CON-STR-142
 DASD fast writes, cache DBS-REF-44
 DASD I/O APP-GDE-150
 DASD missing interrupt handler (DMIH)
 time interval
 displaying OPR-GDE-1285
 setting OPR-GDE-1275
 ZSONS ALTER HALT command OPR-GDE-1275
 ZSONS DISPLAY HALT command OPR-GDE-1285
 DASD paths
 replacing OPR-GDE-1236
 retaining OPR-GDE-1236
 ZRSTT command OPR-GDE-1236
 DASD record caching
 candidacy characteristics CON-STR-104
 fast write CON-STR-143
 record ID attribute table (RIAT) CON-STR-104
 retentive write CON-STR-143
 DASD record
 in main storage CON-STR-137, CON-STR-138
 in module cache memory CON-STR-142
 DASD resource manager DBS-REF-125
 DASD services SYS-MAC-233
 DASD status indicators
 replacing OPR-GDE-1236
 retaining OPR-GDE-1236
 ZRSTT command OPR-GDE-1236
 DASD, storing objects DBS-REF-207
 DASD
 alternate paths to SYS-GEN-87
 hardware maintenance CON-STR-147
 inter-processor communication GIM-29
 DASDFLAT structures DBS-REF-197
 DASDHASH structures DBS-REF-198
 DASDINDEX structures DBS-REF-188
 DASDLIST structures DBS-REF-202
 DAT mode SYS-MAC-58
 DAT-mode bit CON-STR-26
 data MSP-PRM-27
 data alter and display
 overview MIG-GD1-10
 data and control message SNA-PRM-22
 data blocks, referencing APP-GDE-31
 data card images (STC instructions) APP-GDE-286
 data chain transfer
 file SYS-MAC-237
 data collection CON-STR-59, DBS-REF-42,
 DBS-REF-47, GIM-20
 data collection and reduction CLAWGR-112,
 CON-STR-59
 data collection and reduction (DC/DR) SYS-GEN-153
 data collection and reduction
 overview MIG-GD1-10
 data collection basics SPM-PRM-1
 Data Collection Hook Insertion macro SYS-MAC-24
 data collection reports for TPFAR
 STREAMDDM AR-USG-99
 data collection utility
 collection cycle OPR-GDE-1457
 collection interval OPR-GDE-1457
 complexwide data OPR-GDE-1474
 continuous mode
 description of OPR-GDE-774, OPR-GDE-1457
 file collector OPR-GDE-1457
 gap OPR-GDE-1457
 hardware requirements OPR-GDE-1474
 INTVL OPR-GDE-1457
 loosely coupled considerations OPR-GDE-1474
 message collector OPR-GDE-1457
 program collector OPR-GDE-1457
 restarting OPR-GDE-1459
 RTC tape OPR-GDE-1457
 RTC tape file OPR-GDE-1474
 sampling mode
 description of OPR-GDE-774, OPR-GDE-1457
 sampling period OPR-GDE-1457
 skip factor OPR-GDE-1458
 starting OPR-GDE-774, OPR-GDE-1457,
 OPR-GDE-1459
 stopping OPR-GDE-777, OPR-GDE-1459
 system collector OPR-GDE-1457
 ZMEAS command OPR-GDE-774
 ZMEAS END command OPR-GDE-777
 ZMEAS Q command OPR-GDE-778
 ZMEAS RESET command OPR-GDE-779
 data collection/data reduction, cache DBS-REF-47
 data collection/reduction overview SPM-PRM-9
 data collection
 3880 storage control report SPM-PRM-49
 3880 Storage Control Report for SDA mmmm, SDID
 nn SPM-PRM-51
 3880 Storage Control Report: Subtotals for SDID nn
 SPM-PRM-50
 3880 Storage Control Report: Totals SPM-PRM-49
 3990 Storage Control Cache Summary Report
 SPM-PRM-58
 3990 storage control report SPM-PRM-52
 3990 Storage Control Report for SDA mmmm, Cache
 Subsystem nnnn SPM-PRM-57
 3990 Storage Control Report: Subtotals for Cache
 Subsystem nnnn SPM-PRM-53
 3990 Storage Control Report: Totals SPM-PRM-52
 application detail report SPM-PRM-71
 calculate frames for an ECB MIG-GD1-214
 capacity planning MIG-GD1-285
 changes MIG-GD1-229, MIG-GD1-233,
 MIG-GD1-284, MIG-GD1-285
 channel path activity SPM-PRM-46
 channel path id status SPM-PRM-45
 city summary SPM-PRM-72
 collectors chosen SPM-PRM-13
 control program (CP) executable code MIG-GD1-233

data collection (*continued*)

- convert non-intercept modifications to control program (CP) MIG-GD1-229
- convert nonintercept modifications MIG-GD1-233
- Coupling Facility Caching Summary report SPM-PRM-29
- Coupling Facility Locking Summary report SPM-PRM-29
- Coupling Facility Structure Summary report SPM-PRM-29
- Coupling Facility Usage Summary report SPM-PRM-29
- cylinder analysis SPM-PRM-47
- cylinder analysis report SPM-PRM-47
- data reduction limitations report SPM-PRM-41
- DDM message stream report SPM-PRM-78
- description MIG-GD1-277, MIG-GD1-286
- DP Record Anomaly Log SPM-PRM-61
- ECB frame usage summary report SPM-PRM-35
- expected arm movement SPM-PRM-47
- file accesses per cylinder SPM-PRM-47
- file accesses per record id SPM-PRM-46
- file comparison SPM-PRM-47, SPM-PRM-48
- file comparison plot SPM-PRM-48
- file data analysis SPM-PRM-41
- frequency distribution SPM-PRM-38
- heap area usage report SPM-PRM-35
- how to run MIG-GD1-286
- input messages per second SPM-PRM-16
- instantaneous activity SPM-PRM-17
- logical record cache summary report SPM-PRM-29
- LU activity
 - See logical unit
- message stream by agent SPM-PRM-77
- message stream by lu SPM-PRM-76
- message summary SPM-PRM-69
- MPIF path activity report SPM-PRM-37
- nonintercept modifications MIG-GD1-233
- nonretentive access: SPM-PRM-49
- normal cache replacement SPM-PRM-49
- package collection details SPM-PRM-65
- package enters SPM-PRM-65
- package on-file enters SPM-PRM-66
- performance monitoring MIG-GD1-284
- plot SPM-PRM-40
- processor utilization SPM-PRM-16
- program details for a package SPM-PRM-63
- program enters for a package SPM-PRM-64
- program legend SPM-PRM-67
- program names and enters SPM-PRM-62
- program on-file enters for a package SPM-PRM-64
- program report SPM-PRM-61
- pushbutton application summary report SPM-PRM-14
- random file access summary SPM-PRM-44
- record ID file accesses report SPM-PRM-46
- record-caching storage controls SPM-PRM-48
- report SPM-PRM-16
- sequential file access summary SPM-PRM-46
- shutdown conditions SPM-PRM-16
- system SPM-PRM-11

data collection (*continued*)

- system pools summary SPM-PRM-28
- TCP/IP message summary report SPM-PRM-78
- TCP/IP resource management MIG-GD2-333, MIG-GD2-334
- TCP/IP weighted input messages by application SPM-PRM-34
- techniques for collecting data MIG-GD1-286
- terminal activity SPM-PRM-73
- threads support data SPM-PRM-17
- TPF Internet mail server summary report SPM-PRM-33
- TPF MQSeries message channel report SPM-PRM-79
- TPF MQSeries message queue report SPM-PRM-79
- weighted-message rate SPM-PRM-67
- working storage utilization SPM-PRM-16
- ZMEAS command
 - sampling mode MIG-GD1-74
 - test mode (continuous) MIG-GD1-74
- data communications support SYS-GEN-123
- data communications support
 - non-SNA SYS-GEN-123
 - SNA SYS-GEN-123
- data control field in record header APP-GDE-267
- data definition CON-STR-164, DBS-REF-137
- data definition language files for SQL AR-USG-27, AR-USG-35
- data definition names for GDS
 - locating SYS-MAC-258
- data definition
 - changing CLS-UGR-1230
 - creating CLS-UGR-1238
 - deleting OPR-GDE-1089
 - displaying information about OPR-GDE-366 name
 - defining OPR-GDE-364
 - removing OPR-GDE-373
 - testing to see if it is defined CLS-UGR-1314
 - ZDSMG DEFINE command OPR-GDE-364
 - ZDSMG DISPLAY OPR-GDE-366
 - ZDSMG RELEASE command OPR-GDE-373
 - ZOODB DELETE command OPR-GDE-1089
- data event control block (DECB) GEN-MAC-145, SYS-MAC-29
- data event control block (DECB) fields DBS-REF-19
- data event control block (DECB), creating CLS-UGR-576
- data event control block (DECB)
 - converting file addresses CLS-UGR-592
 - creating CLS-UGR-576
 - locating CLS-UGR-578
 - releasing CLS-UGR-580
 - releasing a core block and file address CLS-UGR-624
 - returning an 8-byte file address base CLS-UGR-587
 - swapping a storage block CLS-UGR-582
 - validating CLS-UGR-584
- data event control blocks (DECBs) APP-GDE-29
- data event control blocks (DECBs)
 - 4x4 format APP-GDE-31

- data event control blocks (DECBs) *(continued)*
 - 8-byte file address support APP-GDE-31
 - accessing file records APP-GDE-31
 - data blocks, referencing APP-GDE-31
 - data level APP-GDE-150
 - error handling APP-GDE-32
 - FAC8C macro CON-STR-105
 - fields APP-GDE-30
 - format of CON-STR-71
 - functional flow APP-GDE-32
 - symbolic names APP-GDE-31
 - usage CON-STR-160
- Data Flow Control (DFC) SNA-PRM-22
- Data Flow Control (DFC)
 - BIND SNA-PRM-260
 - services SNA-PRM-260
 - User DFC Interface SNA-PRM-261
- data flow
 - between the IP router and the TPF System
CLAWGR-41
 - between the OSA-Express card and the TPF System
CLAWGR-44
 - TPF system and IBM 3172 Model 3 Interconnect
Controller CLAWGR-12
- data generation routine
 - definition of PDV-PRM-23
- data generation
 - continuation character PDV-PRM-26
 - data operation code PDV-PRM-26
 - description of PDV-PRM-32
 - detail records PDV-PRM-25
 - detail records
 - format PDV-PRM-25
 - error messages PDV-PRM-44
 - examples PDV-PRM-34
 - examples for input messages PDV-PRM-36
 - examples for mixed SDMF, DRIL, manual
PDV-PRM-36
 - examples using DRIL PDV-PRM-35
 - field location PDV-PRM-25
 - field set operands PDV-PRM-26
 - manual generation PDV-PRM-34
 - operations PDV-PRM-27, PDV-PRM-28,
PDV-PRM-29
 - overview PDV-PRM-23
 - STC prefix PDV-PRM-25
- data host CON-STR-186
- data integrity GIM-23
- data integrity
 - changes MIG-GD1-213
 - dynamic address translation (DAT) facility
MIG-GD1-22
- data items
 - reading CLS-UGR-213
 - writing CLS-UGR-239
- data level CON-STR-75, CON-STR-158,
CON-STR-160
- data levels APP-GDE-28, APP-GDE-149
- data levels, interchanging status CLS-UGR-197
- data list generation CLS-UGR-599
- data loader INS-PRM-340
- data loader
 - activating OPR-GDE-1258
 - ZSLDR command OPR-GDE-1258
- data macros, converting to C or C++ APP-GDE-145
- data macros
 - use of GEN-MAC-2
- data operation code PDV-PRM-26
- data organization CON-STR-95
- data organization
 - factors affecting performance CON-STR-95
- data received exit MSP-PRM-36
- DATA record PDV-PRM-23, PDV-PRM-24
- data record attributes CON-STR-102
- Data Record Information Library (DRIL) APP-GDE-286
- data record information library (DRIL)
 - input to system test compiler OPR-GDE-1477
- data record information library
 - definition of PDV-PRM-17
 - description of PDV-PRM-31
 - example of a record PDV-PRM-19
 - record layout PDV-PRM-18
 - records PDV-PRM-27
- data record prefix entries PDV-PRM-29
- data record size CON-STR-102
- data record size
 - 1055 CON-STR-102
 - 381 CON-STR-102
 - 4095 CON-STR-102
 - 4K CON-STR-102
 - large CON-STR-102
 - non-standard on a general data set (GDS)
CON-STR-143
 - small CON-STR-102
- data record
 - backup record CON-STR-102
 - duplication CON-STR-102, CON-STR-121
 - get file addresses MIG-GD1-306
 - longevity CON-STR-103
 - primary record CON-STR-102
 - size CON-STR-102
- data recovery
 - dynamic address translation (DAT) facility
MIG-GD1-22
- data reduction CON-STR-59, DBS-REF-42,
DBS-REF-47, GIM-20, SYS-GEN-153
- data reduction limitations report SPM-PRM-40,
SPM-PRM-41
- data reduction reports for TPFAR
 - system summary report AR-USG-99
- data reduction utility
 - ACP.LINK.RELnn OPR-GDE-1460
- data sets
 - defining OPR-GDE-1467
 - intermediate OPR-GDE-1474
- error messages OPR-GDE-1461
- files
 - sort OPR-GDE-1472, OPR-GDE-1473
 - temporary OPR-GDE-1472
- hardware requirements OPR-GDE-1474
- intermediate data sets OPR-GDE-1474

data reduction utility (*continued*)

- JCL
 - options OPR-GDE-1461
 - sample OPR-GDE-1467
- libraries OPR-GDE-1460
- limitations OPR-GDE-1460
- loosely coupled considerations OPR-GDE-1474
- merge program OPR-GDE-1460
- options OPR-GDE-1461
- region size OPR-GDE-1460
- reports OPR-GDE-1460
- RTC tape OPR-GDE-1460
- RTC tape file OPR-GDE-1474
- sample JCL OPR-GDE-1467
- sort files
 - input and output OPR-GDE-1472
 - work space OPR-GDE-1473
- sort program OPR-GDE-1460
- SORTLIB card OPR-GDE-1460, OPR-GDE-1467
- starting OPR-GDE-1460
- STEPLIB card OPR-GDE-1460, OPR-GDE-1467
- SYS1.LINKLIB OPR-GDE-1460
- temporary files OPR-GDE-1472

data reduction

- capacity planning MIG-GD1-285
- changes MIG-GD1-284, MIG-GD1-285, MIG-GD2-199
- description MIG-GD1-277, MIG-GD1-286
- file reduction reports MIG-GD1-289
- general reduction reports MIG-GD1-288
- input tape changes MIG-GD1-286
- message reduction reports MIG-GD1-291
- output report changes MIG-GD1-288
- performance monitoring MIG-GD1-284, MIG-GD1-286
- plot reports MIG-GD1-286
- program reduction reports MIG-GD1-290
- report usage MIG-GD1-286
- system reduction reports MIG-GD1-288

Data Save Area (DSA) GEN-MAC-402

data set initialization SYS-GEN-175

data set utility

- access input devices MIG-GD1-268
- data definition names MIG-GD1-268
- overview MIG-GD1-10

data set

- general data set (GDS) MIG-GD1-10
- general tape MIG-GD1-10
- initialization SYS-GEN-175
- partitioned MIG-GD1-224
- SIP stage II SYS-GEN-495
- virtual reader MIG-GD1-10

data sets

- input
 - ALS deck ACF-GDE-45
 - ANT deck ACF-GDE-34
 - RSC deck ACF-GDE-37
- intermediate work
 - RRT work files ACF-GDE-32
 - SORT work files ACF-GDE-32
- output ACF-GDE-31

data sets (*continued*)

- partitioned INS-PRM-407
- STGINP ACF-GDE-30
- STGPILOT ACF-GDE-57
- SYSOUT ACF-GDE-31

data sharing concepts and terminology

- for CF cache support DBS-REF-223
- for coupling facility support DBS-REF-223

data sharing

- application program considerations MIG-GD1-314

data storage, TPF collection support SYS-GEN-162

data store migration OPR-GDE-1098

data store migration

- from previous to current FARF version OPR-GDE-1098
- ZOODB MIGRATE command OPR-GDE-1098

data store re-creation OPR-GDE-1100

data store re-creation

- ZOODB RECREATE command OPR-GDE-1100

data store system collections, retrieving CLS-UGR-1285

data store

- application dictionary CLS-UGR-1187
- changing a definition CLS-UGR-1232
- creating a definition CLS-UGR-1240, CLS-UGR-1242
- definition of CON-STR-161, DBS-REF-130
- deleting CLS-UGR-1252
- dictionary support APP-GDE-104, DBS-REF-139
- get the dictionary PID CLS-UGR-1212
- initializing CON-STR-167, DBS-REF-148
- migrating CLS-UGR-1320
- re-creating CLS-UGR-1330
- ZOODB CHANGE command OPR-GDE-1083
- ZOODB DEFINE command OPR-GDE-1086

data stores, migrating CLS-UGR-1320

data stores, re-creating CLS-UGR-1330

data structures, returning APP-GDE-106

data trace postprocessor, CLAW output CLAWGR-344

data trace postprocessor, sample JCL CLAWGR-343

data transfer MPI-PRM-7

data transmission

- socket concepts used CLAWGR-120

data

- altering and displaying MSP-PRM-27
- collection SPM-PRM-4
- collection
 - control with ZMEAS SYS-MAC-24
 - hook insertion macro SYS-MAC-24
- control during recoup SYS-MAC-264
- control for CP SYS-MAC-448
- encryption SNA-PRM-251
- exchange SNA-PRM-3
- field display GEN-MAC-138
- integrity of critical data CON-STR-145
- interface between offline and online components CON-STR-143
- level
 - test and release GEN-MAC-122
- loading data to the TPF system CON-STR-149
- logically separation CON-STR-98
- manipulation equations SPM-PRM-26

data (continued)

- move between address spaces MIG-GD1-309
- movement between EVM and SVM SYS-MAC-62, SYS-MAC-350
- out-of-band CLAWGR-121
- overview of database CON-STR-95
- physical residence CON-STR-102
- physically separation CON-STR-98
- purge from queue SYS-MAC-325
- reduction analysis SPM-PRM-6
- residence of CON-STR-102
- scan macro GEN-MAC-349
- share between ECBs MIG-GD1-308
- threads support SPM-PRM-25
- transfer
 - tape SYS-MAC-478, SYS-MAC-481
 - transmission SNA-PRM-20
- DATABASE 2 (DB2) AR-USG-4
- DATABASE 2 (DB2)
 - bind file AR-USG-32
 - bind process AR-USG-32
 - coded character set identifier (CCSID) default AR-USG-16
 - connecting with TPF for VTAM AR-USG-19
 - definition of AR-USG-111
 - DSNTIPE installation panel AR-USG-21
 - DSNTIPF installation panel AR-USG-16, AR-USG-21
 - DSNTIPR installation panel AR-USG-18, AR-USG-21
 - moving TPF data using TPFAR AR-USG-4
 - moving TPF data without TPFAR AR-USG-3
 - precompiler AR-USG-32, AR-USG-34, AR-USG-41
 - relational database AR-USG-1
 - requirements for TPFAR AR-USG-11
- database access DBS-REF-142
- database access, TPFCS CON-STR-165
- database administration
 - access
 - I-stream unique records MIG-GD1-247
 - processor unique records MIG-GD1-247
 - subsystem user (SSU) records MIG-GD1-247
 - addressing capacity MIG-GD1-241
 - changes MIG-GD1-241
 - description MIG-GD1-241
 - file address reference format (FARF) MIG-GD1-241
 - migration considerations for pools MIG-GD1-247
 - program segmentation MIG-GD1-248
 - program size MIG-GD1-248
 - virtual file access (VFA) MIG-GD1-248
- database administrator (DBA) CON-STR-150
- database archives CON-STR-166
- database capacity CON-STR-102
- database corruption, TPFCS DBS-REF-157
- database file
 - comparison with stream file CON-STR-150
- database ID (DBI) MSP-PRM-34
- database identification (DBI) CON-STR-136
- database integrity APP-GDE-108, APP-GDE-115, CON-STR-121
- database layout, TPFCS DBS-REF-129
- database management system (DBMS) AR-USG-2, AR-USG-13
- database management system (DBMS)
 - definition of AR-USG-111
- database management systems (DBMS)
 - maximum number
 - changing OPR-GDE-979
 - displaying OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- database ordinal number (DBON) CON-STR-113, CON-STR-114
- database ordinal number (DBON)
 - relationship to physical address CON-STR-115
- database protection
 - overview MIG-GD1-10
- database reorganization CON-STR-145, INS-PRM-261
- database reorganization (DBR)
 - abort processing (MDBF) MIG-GD1-66
 - bypass processing (MDBF) MIG-GD1-66
 - bypass processing of record types MIG-GD1-66
 - capture settings
 - resetting OPR-GDE-256, OPR-GDE-278
 - changes MIG-GD1-283, MIG-GD1-284
 - commands MIG-GD1-275
 - control records initialization (MDBF) MIG-GD1-66, MIG-GD1-67
 - control records setup (MDBF) MIG-GD1-66, MIG-GD1-67
 - control records
 - initializing OPR-GDE-253, OPR-GDE-275
 - description MIG-GD1-277
 - display control record information (MDBF) MIG-GD1-66
 - display output phase status MIG-GD1-66, MIG-GD1-67
 - frame allocation MIG-GD1-277, MIG-GD1-283
 - how to run MIG-GD1-283
 - increase the number of frames available MIG-GD1-284
 - input eligibility MIG-GD1-284
 - input phase MIG-GD1-284
 - input phase
 - restarting OPR-GDE-243, OPR-GDE-264
 - setting ECB count for OPR-GDE-252, OPR-GDE-274
 - starting OPR-GDE-245, OPR-GDE-266
 - output phase MIG-GD1-284
 - output phase
 - restarting OPR-GDE-258, OPR-GDE-280
 - setting ECB count for OPR-GDE-255, OPR-GDE-277
 - starting OPR-GDE-260, OPR-GDE-282
 - stopping OPR-GDE-246, OPR-GDE-267
 - pool record types MIG-GD1-284
 - record type
 - bypassing OPR-GDE-247, OPR-GDE-268
 - displaying OPR-GDE-249, OPR-GDE-270
 - reset record type information (MDBF) MIG-GD1-66, MIG-GD1-67
 - restart input operations (MDBF) MIG-GD1-66

database reorganization (DBR) *(continued)*

- restart output following a tape error MIG-GD1-66, MIG-GD1-67
- restart output operations MIG-GD1-67
- restart output operations (MDBF) MIG-GD1-66
- set input phase available ECB count (MDBF) MIG-GD1-66
- set output phase available ECB count (MDBF) MIG-GD1-66, MIG-GD1-67
- start input operations (MDBF) MIG-GD1-66
- start output operations MIG-GD1-66, MIG-GD1-67
- status
 - displaying OPR-GDE-262, OPR-GDE-285
 - tape error
 - restarting after OPR-GDE-263, OPR-GDE-286
- ZDBRI RESTART command OPR-GDE-243
- ZDBRI START command OPR-GDE-245
- ZDBRO ABORT command OPR-GDE-246
- ZDBRO BYPASS command OPR-GDE-247
- ZDBRO DISPLAY command OPR-GDE-249
- ZDBRO IECB command OPR-GDE-252
- ZDBRO INIT command OPR-GDE-253
- ZDBRO OECEB command OPR-GDE-255
- ZDBRO RESET command OPR-GDE-256
- ZDBRO RESTART command OPR-GDE-258
- ZDBRO START command OPR-GDE-260
- ZDBRO STATUS command OPR-GDE-262
- ZDBRO SWITCH command OPR-GDE-263
- ZDBSI RESTART command OPR-GDE-264
- ZDBSI START command OPR-GDE-266
- ZDBSO ABORT command OPR-GDE-267
- ZDBSO BYPASS command OPR-GDE-268
- ZDBSO DISPLAY command OPR-GDE-270
- ZDBSO IECB command OPR-GDE-274
- ZDBSO INIT command OPR-GDE-275
- ZDBSO OECEB command OPR-GDE-277
- ZDBSO RESET command OPR-GDE-278
- ZDBSO RESTART command OPR-GDE-280
- ZDBSO START command OPR-GDE-282
- ZDBSO STATUS command OPR-GDE-285
- ZDBSO SWITCH command OPR-GDE-286

database reorganization

- abort DBS-REF-97
- bypass DBS-REF-93
- commands DBS-REF-89
- considerations DBS-REF-89
- control records DBS-REF-91
- DB0DB DBS-REF-91
- display DBS-REF-94
- exception record DBS-REF-91
- I/O descriptions DBS-REF-91
- initialization DBS-REF-92
- input phase DBS-REF-97
- introduction DBS-REF-89
- logging DBS-REF-97
- logging tape DBS-REF-98
- master keypoint DBS-REF-91
- OECEB DBS-REF-92
- output phase DBS-REF-95
- override keypoint DBS-REF-91
- prerequisites DBS-REF-89

database reorganization *(continued)*

- processing description DBS-REF-91
- pseudo module CON-STR-145
- records not captured DBS-REF-96
- reset DBS-REF-93
- restart DBS-REF-96, DBS-REF-98
- sample problem DBS-REF-98
- status DBS-REF-95
- tape block header DBS-REF-95
- tape mount DBS-REF-97
- working keypoint DBS-REF-91
- database request module (DBRM) AR-USG-33
- Database Request Module (DBRM) AR-USG-34, AR-USG-35
- Database Request Module (DBRM)
 - COLLECTION-ID option AR-USG-35
 - definition of AR-USG-111
 - MEM option AR-USG-35
 - PACKAGE option AR-USG-35
 - RELEASE option AR-USG-35
- database restoration tape PDV-PRM-12
- database restore APP-GDE-290
- database restore tape PDV-PRM-12
- database security PDV-PRM-4
- database support APP-GDE-5, CON-STR-9
- database support structure GEN-MAC-136
- database support structure for TPFAR GEN-MAC-134
- database utilities
 - database reorganization CON-STR-144, CON-STR-145
 - directory generation CON-STR-148
 - directory maintenance CON-STR-148
 - file capture and restore CON-STR-144, CON-STR-145
 - file copy CON-STR-144, CON-STR-147
 - file recoup CON-STR-144, CON-STR-147
 - operation of CON-STR-144
 - pool directory generation CON-STR-144
 - pool directory maintenance CON-STR-144
- database, detecting a corrupt collection DBS-REF-157
- database
 - allocation SYS-GEN-91
 - allocation
 - application programs, disk resident SYS-GEN-91
 - database duplication SYS-GEN-98
 - disk file pool storage SYS-GEN-92
 - disk resident application programs SYS-GEN-91
 - file assignment considerations SYS-GEN-92
 - file design SYS-GEN-99
 - fixed file data records SYS-GEN-91
 - multiple DASD device types SYS-GEN-103
 - design of organization CON-STR-112
 - device addressing SYS-GEN-79
 - device addressing
 - copy module slots SYS-GEN-83
 - file status tables SYS-GEN-83
 - restrictions SYS-GEN-79
 - device capacity SYS-GEN-79
 - example of CON-STR-95
 - expansion capability CON-STR-129
 - increase capacity of CON-STR-102

database (*continued*)
 index CON-STR-97
 integrity CON-STR-104, CON-STR-145
 loading SYS-GEN-22
 loosely coupled multiprocessing CON-STR-144
 organization design CON-STR-112
 reorganization (DBR) SYS-GEN-25, SYS-GEN-154
 reorganization (DBR)
 input phase SYS-GEN-25
 output phase SYS-GEN-25
 support SYS-GEN-57
 tightly coupled multiprocessing CON-STR-144
 utilities CON-STR-144
 utility functions CON-STR-144
 databases
 define MIG-GD1-204
 define UFT/FTI pairs MIG-GD1-206
 file address reference format 4 (FARF4)
 MIG-GD1-204
 file address reference format 5 (FARF5)
 MIG-GD1-204
 DATACO macro SYS-GEN-240
 datagram sockets
 User Datagram Protocol (UDP) CLAWGR-119
 DATAS macro GEN-MAC-130
 DATD dump option code PDV-PRM-10
 DATE (Dedicated Access to X.25 Transport Extension)
 SNA-PRM-29
 date change message
 replying to OPR-GDE-94
 ZATME command OPR-GDE-94
 date stamp GEN-MAC-132
 date
 displaying OPR-GDE-298
 ZDDAT command OPR-GDE-298
 DATEC macro GEN-MAC-132
 DATXPAGE envelope DBS-REF-169
 DB0DB DBS-REF-91
 DB2 (DATABASE 2) AR-USG-4
 DB2 (DATABASE 2)
 bind file AR-USG-32
 bind process AR-USG-32
 coded character set identifier (CCSID) default
 AR-USG-16
 connecting with TPF for VTAM AR-USG-19
 definition of AR-USG-111
 DSNTIPE installation panel AR-USG-21
 DSNTIPF installation panel AR-USG-16,
 AR-USG-21
 DSNTIPR installation panel AR-USG-18,
 AR-USG-21
 moving TPF data using TPFAR AR-USG-4
 moving TPF data without TPFAR AR-USG-3
 precompiler AR-USG-32, AR-USG-34, AR-USG-41
 relational database AR-USG-1
 requirements for TPFAR AR-USG-11, AR-USG-20
 DB2 PLU
 defining AR-USG-12
 OSTG definition AR-USG-12, AR-USG-18
 DBEMPTY parameter
 using in conditional expression SPM-20
 DBEMPTY parameter (*continued*)
 using in conditional expression
 example of SPM-22
 DBEOF parameter
 using in conditional expression SPM-20
 using in conditional expression
 example of SPM-22
 DBERROR parameter
 using in conditional expression SPM-19
 using in conditional expression
 example of SPM-22
 DBF tapes OPR-GDE-18
 DBFOUND parameter
 using in conditional expression SPM-19
 using in conditional expression
 example of SPM-22
 DBI ID
 restore previously saved CLS-UGR-28
 save current CLS-UGR-29
 DBIDX parameter
 using in conditional expression SPM-20
 using in conditional expression
 example of SPM-22
 DBMS (database management system) AR-USG-2,
 AR-USG-13
 DBMS (database management system)
 definition of AR-USG-111
 DBP tapes OPR-GDE-18
 DBR PDV-PRM-12
 DBR tapes OPR-GDE-18
 DBRM (database request module) AR-USG-33
 DBRM (Database Request Module) AR-USG-34,
 AR-USG-35
 DBRM (Database Request Module)
 COLLECTION-ID option AR-USG-35
 definition of AR-USG-111
 MEM option AR-USG-35
 PACKAGE option AR-USG-35
 RELEASE option AR-USG-35
 DBSAC macro AR-USG-14, AR-USG-18, AR-USG-30,
 GEN-MAC-134
 DBSDC macro AR-USG-14, AR-USG-18, AR-USG-30,
 GEN-MAC-136
 DC/DR
 DATACO macro SYS-GEN-154
 DCL macro
 description of SPM-95
 example of SPM-97
 DCLREG macro
 description of SPM-98
 example of SPM-98
 DCSR-AUTO : Automated Operations Enabler
 DCS-PRM-1
 DCSR-CCS : Communications Controller (3705)
 Support DCS-PRM-9
 DCSR-CRAS : CRAS Support DCS-PRM-15
 DCTMSG dsect GEN-MAC-559
 DCTMUP MPI-PRM-24
 DCTRIT macro INS-PRM-402
 DDATA macro GEN-MAC-138
 DDCCAP macro SYS-GEN-242

DDF (Distributed Data Facility) of DB2 AR-USG-18, AR-USG-21

DDL files for SQL AR-USG-27, AR-USG-35

DDM message stream report SPM-PRM-78

deactivating sockets CLAWGR-77

deactivation processing within movable VIPA support and user exit CLAWGR-69

deadlock CON-STR-22, CON-STR-23

deadlock detection APP-GDE-98, CON-STR-24

deadlock detection user exit INS-PRM-130

deadlocks CLS-UGR-132

DEALLOCATE SNA-PRM-74

debug

- block checking mode MIG-GD1-278, MIG-GD1-293, MIG-GD1-299
- path information unit (PIU) trace facility MIG-GD1-293, MIG-GD1-301
- PIUPRT utility MIG-GD1-302
- program event recording (PER) trace facility MIG-GD1-293
- real-time trace (RTT) MIG-GD1-293
- register and S/370 branch trace facility MIG-GD1-293
- register trace facility MIG-GD1-295
- SNA I/O trace facility MIG-GD1-293, MIG-GD1-303
- system log trace facility MIG-GD1-298
- system traces MIG-GD1-293
- tools
 - block checking mode MIG-GD1-9, MIG-GD1-278, MIG-GD1-299
 - overview MIG-GD1-293
 - tools MIG-GD1-293
- virtual-equals-real(VEQR) mode MIG-GD1-293

debugger trace selection INS-PRM-34, INS-PRM-35

debugger

- See TPF C Debugger for VisualAge Client

debugging

- block checking mode GIM-28, MSP-PRM-22

DEC parameter of DB2 precompiler AR-USG-34

DECB DSECT SYS-MAC-29

DECBC macro GEN-MAC-145

decimal (DEC) parameter of DB2 precompiler AR-USG-34

declarative macros GEN-MAC-2

decode

- FARF4 addresses MIG-GD1-246
- FARF5 addresses MIG-GD1-246

decrement cursor to point to previous element CLS-UGR-1133

Dedicated Access to X.25 Transport Extension (DATE) SNA-PRM-29

dedicated paths MPI-PRM-5

default local IP address CLAWGR-61

default parameters PSM-GDE-4

default tape library category SYS-GEN-54

defer processing GEN-MAC-149

defer processing of current entry CLS-UGR-80

defer processing of current entry macro GEN-MAC-149

deferred entries

- processing GEN-MAC-12

deferred entry creation GEN-MAC-105, GEN-MAC-120

deferred list APP-GDE-228, CON-STR-61

deferred queue CLAWGR-257, SPM-PRM-33

deferred queue control record CLAWGR-257

deferred queue record CLAWGR-257

deferring processing GEN-MAC-16

define a macro group SYS-MAC-179

Define and Enqueue Resource macro GEN-MAC-169

Define and Enqueue Resource, Signal Aware macro SYS-MAC-419

define and hold a resource CLS-UGR-49

Define and Hold Resource macro GEN-MAC-101

define event user area GEN-MAC-183

define global fields macro GEN-MAC-264

define global fields macro (GLOBZ) CON-STR-140

Define Internal Event macro GEN-MAC-181

define internal event macro (EVNTC) MSP-PRM-17

define request

- unique data store to TPF collection support OPR-GDE-1086
- ZOODB DEFINE command OPR-GDE-1086

Define Stack DSECT for Control Program (CP) Routine macro SYS-MAC-216

define, delete, or display a property

- ZBROW PROPERTY command OPR-GDE-150

define, display, or remove collection name information

- ZBROW COLLECTION command OPR-GDE-141

define

- dequeue resource CLS-UGR-84
- enqueue resource CLS-UGR-102
- internal event CLS-UGR-111
- resource CLS-UGR-49

defined data definition names, retrieving CLS-UGR-1283

defined users, getting a list of CLS-UGR-1289

defining a commit scope APP-GDE-89

defining a property for a collection CLS-UGR-1028, CLS-UGR-1031

defining application programs SNA-PRM-201

defining processor shared queues, TPF MQSeries APP-GDE-86

defining profile, TPF MQSeries APP-GDE-86

defining program records as VFA synchronization candidate

- macros to use DBS-REF-37

defining RCPL fields SNA-PRM-22

defining the network SNA-PRM-11

defining TPF/APPC LUs

- across a PU 2.1 APPN connection SNA-PRM-65
- across a PU 2.1 LEN connection SNA-PRM-64
- across a PU 5 connection SNA-PRM-63
- across a PU 5 CTC connection SNA-PRM-64
- to a VTAM subsystem SNA-PRM-66
- to the network SNA-PRM-63

defining user exits

- SQL trace table AR-USG-16

defining

- CDLC IP CCW area table resources CLAWGR-52
- CDLC IP network configuration CLAWGR-52
- CDLC IP routers CLAWGR-65
- CDLC local IP addresses CLAWGR-62
- gateways CLAWGR-58

defining *(continued)*

- IP message table CLAWGR-54
- IP routing table CLAWGR-54
- local IP addresses CLAWGR-60
- OSA read buffers CLAWGR-53
- OSA-Express cards CLAWGR-66
- OSA-Express connections CLAWGR-67
- real OSA IP addresses CLAWGR-63
- routing table entries for SNMP CLAWGR-99
- SNMP agent server CLAWGR-98
- socket block table CLAWGR-51
- TPF system to SNMP CLAWGR-99
- VIPAs CLAWGR-64

Definition of New Messages PSM-GDE-10

definition of objects (TPFCS) DBS-REF-161

DEFRC GEN-MAC-16

DEFRC macro GEN-MAC-149

delay file CON-STR-104, CON-STR-139

delay file support

- disabling OPR-GDE-1418
- enabling OPR-GDE-1418
- record attribute
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
- ZVFAC command OPR-GDE-1418

delay filing for VFA

- active in NORM state DBS-REF-36

Delay macro GEN-MAC-15

DELAY parameter SNA-PRM-225

delay processing of current entry CLS-UGR-90

delay processing of macro GEN-MAC-154

delaying processing GEN-MAC-16

delete a cache entry CLS-UGR-82

delete a file CLS-UGR-427

delete a logical record cache CLS-UGR-81

delete a signal from a signal set CLS-UGR-491

delete record IDs from the exclusion table

- ZRECP DEL command OPR-GDE-1155

delete record IDs from the inclusion table

- ZRECP DEL command OPR-GDE-1155

delete request

- data definition OPR-GDE-1089
- ZOODB DELETE command OPR-GDE-1089

delete

- environment variable CLS-UGR-671

deleting collections APP-GDE-106

deleting queues, TPF MQSeries APP-GDE-87

deleting TPFAR continuous data collection

- ZCDCO command OPR-GDE-190

deleting

- all defined properties CLS-UGR-1034
- an index CLS-UGR-1086
- an item from the index CLS-UGR-1041
- CDLC IP routers CLAWGR-66
- CDLC local IP addresses CLAWGR-62
- collections CLS-UGR-1036
- cursor CLS-UGR-1137
- data definition CLS-UGR-1250
- data store CLS-UGR-1252

deleting *(continued)*

- environment block CLS-UGR-876
- IP routing table entries CLAWGR-74
- OSA-Express connections CLAWGR-67
- persistent identifier (PID) and backing its store
 - CLS-UGR-1352
- property CLS-UGR-1038
- real OSA IP addresses CLAWGR-63
- VIPAs CLAWGR-65

delimiter for STC PDV-PRM-26

delimiters PSM-GDE-4

demand counter in record headers APP-GDE-266

demand counter

- location of INS-PRM-402
- location
 - I-stream unique program MIG-GD1-219
 - program allocation table (PAT) MIG-GD1-219
 - program header MIG-GD1-219
- manipulate MIG-GD1-306

demand paging CON-STR-27

denial-of-service attacks CLAWGR-105

deny directive APP-GDE-174, CLAWGR-240

DEQC GEN-MAC-15

DEQC macro GEN-MAC-150

Dequeue from Resource macro GEN-MAC-150

DESC parameter

- EXEC PARM field ACF-GDE-29
- ZNOPL STATUS command ACF-GDE-29

describing SNMP agent support CLAWGR-89

description of a sample TCP/IP network CLAWGR-13

description, I/O DBS-REF-91

description, processing DBS-REF-91

descriptor record access for recoup SYS-MAC-264

design considerations APP-GDE-279

design phase SYS-GEN-6

design, system SYS-GEN-5

destaging, cache DBS-REF-48

destination of message CON-STR-171

DETAC macro GEN-MAC-152

detach a working storage block from ECB

- CLS-UGR-85, CLS-UGR-86

Detach an ECB Working Storage Block macro

- GEN-MAC-152

detach shared memory CLS-UGR-481

detach TPFAR database support structure

- CLS-UGR-79

Detach TPFAR Database Support Structure

- GEN-MAC-136

detach working storage block from ECB CLS-UGR-88

detaching main storage blocks APP-GDE-278

detailed summary error indicator APP-GDE-38

detecting a corrupt collection DBS-REF-157,
DBS-REF-219

determine signal CLS-UGR-699

determining a data store name for a PID

- CLS-UGR-1280

determining collection residency DBS-REF-217

determining if a collection is persistent or temporary

- CLS-UGR-1070

determining the end of the collection APP-GDE-112

deviations PSM-GDE-1

- deviations for real-time programs PSM-GDE-29
- deviations from existing naming standards
 - PSM-GDE-29
- deviations of database record IDs PSM-GDE-33
- device addresses
 - for terminal simulation options
 - LEID PDV-PRM-9
 - LNIATA PDV-PRM-8
 - LNIATA(CD) PDV-PRM-9
 - overview PDV-PRM-8
- device addressing, database SYS-GEN-79
- device capacity, database SYS-GEN-79
- device driver interface CLS-UGR-1416,
 - CLS-UGR-1419, CLS-UGR-1420, CLS-UGR-1422,
 - CLS-UGR-1425, CLS-UGR-1427, CLS-UGR-1429,
 - CLS-UGR-1432, CLS-UGR-1434, CLS-UGR-1436
- device drivers CON-STR-157
- device errors MSP-PRM-48
- device handler SYS-MAC-323
- device ID
 - lstat CLS-UGR-317
 - stat CLS-UGR-513
- device independent file addressing
 - implementation SYS-GEN-24
 - objectives SYS-GEN-24
- device type, logical
 - module file status table (MFST) CON-STR-110
 - record duplication CON-STR-121
- device types
 - 1403 printer
 - unit record status table OPR-GDE-96,
 - OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set OPR-GDE-102
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
 - 2505R card reader
 - unit record status table OPR-GDE-96,
 - OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
 - 3211 printer
 - form control buffer OPR-GDE-100
 - unit record status table OPR-GDE-96,
 - OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set OPR-GDE-102
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS FCBL command OPR-GDE-100
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
 - 3505 card reader
 - unit record status table OPR-GDE-96,
 - OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96

- device types *(continued)*
 - 3505 card reader *(continued)*
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
 - card readers
 - 2505R card reader OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-104
 - 3505 card reader OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS UTIL command OPR-GDE-104
 - for terminal simulation options PDV-PRM-8
 - printers
 - 1403 printer OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-102, OPR-GDE-104
 - 3211 printer OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-100, OPR-GDE-102, OPR-GDE-104
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS FCBL command OPR-GDE-100
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
 - unit record device types
 - 1403 printer OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-102, OPR-GDE-104
 - 2505R card reader OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-104
 - 3211 printer OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-100, OPR-GDE-102, OPR-GDE-104
 - 3505 card reader OPR-GDE-96, OPR-GDE-98,
 - OPR-GDE-104
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS FCBL command OPR-GDE-100
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
- device
 - falling back OPR-GDE-11
 - IBM 3172 Model 3 Interconnect Controller
 - OPR-GDE-209
 - input/output (I/O) OPR-GDE-301
 - MPIF
 - defining OPR-GDE-786
 - deleting OPR-GDE-793
 - starting OPR-GDE-813
 - stopping OPR-GDE-815
 - tracing OPR-GDE-817
 - TCP/IP support
 - IBM 3172 Model 3 Interconnect Controller
 - OPR-GDE-209
 - ZMPIF DEFINE DEVICE command OPR-GDE-786
 - ZMPIF DELETE command OPR-GDE-793
 - ZMPIF START command OPR-GDE-813
 - ZMPIF STOP command OPR-GDE-815
 - ZMPIF TRACE command OPR-GDE-817
- DFAD DBS-REF-121
- DFAD (FACE driver and offline interface) SYS-GEN-162
- DFC (Data Flow Control) SNA-PRM-22, SNA-PRM-260

DFHTCT SNA-PRM-66
DGR
 definition of PDV-PRM-23
DGR0 PDV-PRM-44
DHASHC macro SYS-MAC-212
DHASHC macro
 NCB directory records SNA-PRM-187
 RNHPT hash bucket SNA-PRM-183
diagnostic data GEN-MAC-357, GEN-MAC-363,
 GEN-MAC-378
diagnostic output formatter SYS-GEN-159
diagnostic output formatter (DOF) APP-GDE-292
diagnostic output formatter (DOF)
 eliminating control cards OPR-GDE-1439
 EXEC statement OPR-GDE-1437
 hardware requirements OPR-GDE-1448
 input for OPR-GDE-1437
 job control language (JCL) OPR-GDE-1437
 link-edit procedures OPR-GDE-1439
 messages OPR-GDE-1441, OPR-GDE-1447
 output from OPR-GDE-1440
 program test vehicle (PTV), output from
 OPR-GDE-1437
 running OPR-GDE-1440
 specifying parameters OPR-GDE-1438,
 OPR-GDE-1441, OPR-GDE-1447
diagnostic output formatter
 incore dump formatter (ICDF) SYS-GEN-159
 post processor SYS-GEN-159
 selective file trace output PDV-PRM-66
 SFDT PDV-PRM-54
 terminal simulation SYS-GEN-159
Diagnostic output formatter
 dump headings and labels PDV-PRM-66
Diagnostic Output Formatter
 collated macro trace table PDV-PRM-62
 description of PDV-PRM-2, PDV-PRM-48,
 PDV-PRM-61
 macro table PDV-PRM-62
 online PDV-PRM-61
 path information unit (PIU) trace table PDV-PRM-63
 program test vehicle output PDV-PRM-64
 real-time trace output PDV-PRM-63
 screen reset indicator PDV-PRM-66
 selective file dump output PDV-PRM-66
 terminal simulation output PDV-PRM-65
diagnostic tool
 block checking mode MIG-GD1-9, MIG-GD1-293
 overview MIG-GD1-10, MIG-GD1-293
 tools MIG-GD1-293
diagnostic tools
 branch trace facility GIM-26
 enter/back trace GIM-26
 I/O trace GIM-26
 macro trace GIM-26
 online mini dump GIM-26
 PER (program event recording) GIM-26
 PIU (path information unit) GIM-26
 register trace GIM-26
 RTT (real time trace) GIM-26
 SNA I/O trace facility GIM-26
diagnostic tools (*continued*)
 system log trace GIM-26
diagrams for macro models ACF-GDE-xii,
 GEN-MAC-xvii, OPR-GDE-xxv, SNA-PRM-xx,
 SPM-xii, SYS-GEN-xvi, SYS-MAC-xv
dictionary support APP-GDE-104, CLS-UGR-1188,
 DBS-REF-139
dictionary support functions
 T02_atDSdictKey CLS-UGR-1188
 T02_atDSdictKeyPut CLS-UGR-1190
 T02_atDSdictNewKeyPut CLS-UGR-1192
 T02_atDSsystemKey CLS-UGR-1194
 T02_atDSsystemKeyPut CLS-UGR-1196
 T02_atDSsystemNewKeyPut CLS-UGR-1198
 T02_atTPFKey CLS-UGR-1200
 T02_atTPFKeyPut CLS-UGR-1202
 T02_atTPFNewKeyPut CLS-UGR-1204
 T02_atTPFsystemKey CLS-UGR-1206
 T02_atTPFsystemKeyPut CLS-UGR-1208
 T02_atTPFsystemNewKeyPut CLS-UGR-1210
 T02_removeDSdictKey CLS-UGR-1215
 T02_removeDSsystemKey CLS-UGR-1217
 T02_removeTPFKey CLS-UGR-1219
 T02_removeTPFsystemKey CLS-UGR-1221
dictionary
 class CLS-UGR-1187
 symbol CLS-UGR-1187
differentiated services CLAWGR-47, CLAWGR-111,
 MIG-GD2-1216
direct access storage CLS-UGR-232
direct access storage devices (DASD)
 allocation requirements for programs MIG-GD1-248
 changes MIG-GD1-241, MIG-GD1-248
 code
 get and release IOBs MIG-GD1-278
 conserve DASD space MIG-GD1-248
 control unit types MIG-GD1-186, MIG-GD2-36
 destage modified data from cache MIG-GD1-65
 file operations
 run using VFA buffers MIG-GD1-249
 formatter
 changes MIG-GD1-212
 loosely coupled complex MIG-GD1-193,
 MIG-GD2-43
 macros MIG-GD1-249
 migrate from DASD IPC to MPIF IPC MIG-GD1-202,
 MIG-GD2-52
 path verification MIG-GD1-80
 single central processing complex environment
 MIG-GD1-191, MIG-GD2-41
 status verification MIG-GD1-80
direct mode, cache DBS-REF-41, DBS-REF-44
directives
 # CLAWGR-240, CLAWGR-248
 allow APP-GDE-174, CLAWGR-240
 and file accessibility APP-GDE-174
 and security APP-GDE-174
 AUTH APP-GDE-174, CLAWGR-240
 deny APP-GDE-174, CLAWGR-240
 LOG APP-GDE-174, CLAWGR-240
 syslog daemon configuration file CLAWGR-246

directives *(continued)*

- TFTP configuration file CLAWGR-240
- directories
 - quick enter APP-GDE-69
 - secondary directory APP-GDE-70
- directory reordering CON-STR-129
- directory update MPI-PRM-5
- directory
 - changing OPR-GDE-441
 - changing access permissions for OPR-GDE-444
 - copying OPR-GDE-451
 - creating OPR-GDE-497
 - current directory CON-STR-152
 - displaying current OPR-GDE-516
 - functions CLS-UGR-1405
 - listing attributes of OPR-GDE-491
 - moving OPR-GDE-506
 - removing OPR-GDE-521
 - removing link to OPR-GDE-518
 - renaming OPR-GDE-506
 - what is it? CON-STR-151
 - working directory CON-STR-152
- ZFILE cd command OPR-GDE-441
- ZFILE chmod command OPR-GDE-444
- ZFILE cp command OPR-GDE-451
- ZFILE ls command OPR-GDE-491
- ZFILE mkdir command OPR-GDE-497
- ZFILE mv command OPR-GDE-506
- ZFILE pwd command OPR-GDE-516
- ZFILE rm command OPR-GDE-518
- ZFILE rmdir command OPR-GDE-521
- dirty-reader protection APP-GDE-116, DBS-REF-143
- dirty-reader protection status CLS-UGR-1055, CLS-UGR-1103
- dirty-reader protection, TPFCS CON-STR-165
- disable C function trace SYS-MAC-221
- disabled wait state code
 - IPL CLEAR MIG-GD1-274
 - machine check handler MIG-GD1-274
 - recovery MIG-GD1-274
- DISBC macro
 - See \$DISBC macro
- Disconnect A Block from the ECB Virtual Memory macro SYS-MAC-27
- disconnect a logical link from an adapter CLAWGR-393
- disconnect from a coupling facility (CF) cache structure CLS-UGR-570
- disconnect from a coupling facility (CF) list structure CLS-UGR-570
- Disconnect from a Coupling Facility List or Cache Structure macro SYS-MAC-143
- disconnect queue manager CLS-UGR-341
- disk allocation records
 - overview PDV-PRM-21
- disk space
 - reclaiming INS-PRM-371
- disk time calculations DBS-REF-69
- disk type records
 - overview PDV-PRM-21
- disk
 - allocation SYS-GEN-36

disk *(continued)*

- file storage SYS-GEN-61
- formatter, real time SYS-GEN-161
- roll call SYS-GEN-21
- Dismount a Symbolic Device Address (SDA) macro SYS-MAC-217
- dismount an SDA SYS-MAC-159
- dismount tape SYS-MAC-495
- dispatch a message on an active logical link CLAWGR-403
- dispatch control list (DCL) CON-STR-76
- dispatch control list (DCL)
 - add an item to list CON-STR-76
 - delete an item from list CON-STR-76
- dispatch list
 - count blocks queued SYS-MAC-361
 - management SYS-MAC-101
- dispatch suspended ECB SYS-MAC-219
- dispatch
 - task SYS-MAC-12, SYS-MAC-98
- dispatcher CON-STR-61
- dispatcher, system task MSP-PRM-20
- dispatching CON-STR-8
- dispatching a TPFCS task CLS-UGR-1339
- dispatching work CON-STR-58, CON-STR-76
- dispensing mode
 - changing OPR-GDE-784
 - ZMODE command OPR-GDE-784
- dispensing pool record CON-STR-123
- display DBS-REF-94
- display a control block GEN-MAC-552
- display device logon authority
 - altering OPR-GDE-105
 - displaying OPR-GDE-105
 - initializing OPR-GDE-105
 - ZAUTH command OPR-GDE-105
- display device
 - connecting OPR-GDE-30
 - disconnecting OPR-GDE-30
 - information
 - continuing OPR-GDE-1111
 - input/output (I/O) OPR-GDE-301
 - scrolling OPR-GDE-34
 - LOGI command OPR-GDE-30
 - LOGO command OPR-GDE-30
 - types MIG-GD1-189, MIG-GD2-39
 - Z Mxyy command OPR-GDE-34
 - ZDDSI command OPR-GDE-301
 - ZPAGE command OPR-GDE-1111
- display file address information
 - ZDFAI command OPR-GDE-318
- display file pool counts switch SYS-MAC-373
- display information about individual CPUs and VIPAs
 - ZVIPA command OPR-GDE-1430
- display information about recoup phases
 - ZRECP DISPLAY command OPR-GDE-1156
- display message
 - continuing OPR-GDE-1111
 - scrolling OPR-GDE-34
 - Z Mxyy command OPR-GDE-34
 - ZPAGE command OPR-GDE-1111

display online error log
 ZRECP ONEL command OPR-GDE-1175

display online pool maintenance deactivation table
 ZPOOL DISPLAY command OPR-GDE-1118

display online pool maintenance
 ZPOOL DISPLAY command OPR-GDE-1118

display PDU exclusion table
 ZRPDU DISP command OPR-GDE-1227

display PDU offline multiple releases
 ZRPDU OFLMR command OPR-GDE-1228

display recoup descriptor update history
 ZRBKD command OPR-GDE-1141

display recoup descriptors
 ZRBKD command OPR-GDE-1141

display recoup offline multiple releases
 ZRECP OFLMR command OPR-GDE-1174

display recoup run-time options
 ZRECP PROFILE command OPR-GDE-1183

display request
 data definition attributes OPR-GDE-1091
 ZOODB DISPLAY command OPR-GDE-1091

Display Tape Status macro GEN-MAC-392

display the status of ZRPDU CREATE processing
 ZRPDU STATUS command OPR-GDE-1230

display
 in-use ECB information OPR-GDE-311
 tape queue length CLS-UGR-546
 tape status CLS-UGR-545
 ZDECB command OPR-GDE-311

displaying collection parts DBS-REF-215

displaying information about the IP trace facility
 CLAWGR-409

displaying the IP trace table online CLAWGR-409

displaying TPFAR continuous data collection
 ZCDCO command OPR-GDE-190

displaying
 individual IP trace tables CLAWGR-77
 IP routing table entries CLAWGR-74
 IP trace information CLAWGR-75
 OSA-Express connections CLAWGR-67
 socket control block information CLAWGR-78
 TCP/IP native stack support CLAWGR-75
 VIPA statistics CLAWGR-69
 VIPAs CLAWGR-65

distributed access capability of SAA AR-USG-1

distributed access capability of Systems Application
 Architecture AR-USG-1

Distributed Data Architecture (DDA) CON-STR-150

Distributed Data Facility (DDF) of DB2 AR-USG-18,
 AR-USG-21

distributed data management (DDM) message stream
 report SPM-PRM-77

Distributed Relational Data Architecture (DRDA)
 definition of AR-USG-111

Distributed Relational Database Architecture (DRDA)
 AR-USG-1

Distributed Relational Database Architecture (DRDA)
 illustration of implementation AR-USG-2

DLAYC GEN-MAC-16

DLAYC macro GEN-MAC-154

DLCKC macro SYS-MAC-214

DLL (dynamic link library) load module table
 SYS-GEN-178

DLL
 explicit use CLS-UGR-91, CLS-UGR-93
 freeing CLS-UGR-91
 loading CLS-UGR-93
 obtaining function pointers CLS-UGR-94
 obtaining variable pointers CLS-UGR-96

DLMs APP-GDE-73

DLNKC macro SYS-MAC-216

DNS client CLAWGR-103

DNS server CLAWGR-101

DO macro group
 description of SPM-99
 DO macro
 UNTIL parameter SPM-99
 WHILE parameter SPM-99
 ENDDO macro SPM-99
 example of SPM-103
 exit the loop
 LEAVE macro SPM-113

documentation, copy methods CLS-UGR-1291

DOF
 description of PDV-PRM-2
 output formatting PDV-PRM-14
 SFDT PDV-PRM-54

domain SNA-PRM-3

Domain Name System (DNS) support
 API changes MIG-GD2-775
 architecture MIG-GD2-766
 C/C++ language MIG-GD2-767
 copy members MIG-GD2-770
 database changes MIG-GD2-775
 fallback scenarios MIG-GD2-776
 feature changes MIG-GD2-775
 functional changes MIG-GD2-773
 functional overview MIG-GD2-766
 hardware MIG-GD2-767
 host system changes MIG-GD2-774
 installation validation MIG-GD2-775
 interfaces MIG-GD2-767
 loading process MIG-GD2-774
 macros MIG-GD2-770
 migration scenarios MIG-GD2-775
 offline messages MIG-GD2-773
 online messages MIG-GD2-773
 online system load MIG-GD2-774
 operating environment requirements MIG-GD2-767
 operational changes MIG-GD2-773
 overview MIG-GD2-766
 performance changes MIG-GD2-774
 planning information MIG-GD2-767
 prerequisite APARs MIG-GD2-766
 publication changes MIG-GD2-774
 segments MIG-GD2-772
 SIP changes MIG-GD2-774
 software (programming requirements) MIG-GD2-767
 storage changes MIG-GD2-774
 storage considerations MIG-GD2-774
 system equates MIG-GD2-772
 system errors MIG-GD2-773

- Domain Name System (DNS) support *(continued)*
 - system generation changes MIG-GD2-774
 - tuning changes MIG-GD2-774
 - user exits MIG-GD2-772
- Domain Name System (DNS) Support
 - DNS client CLAWGR-103
 - DNS server CLAWGR-101
 - IP address selection CLAWGR-102
 - TPF host name table CLAWGR-101
- Domain Name System (DNS)
 - server address
 - defining OPR-GDE-382
 - displaying OPR-GDE-382
- domain resource manager (DRM) SNA-PRM-14
- domain
 - communication across SNA-PRM-12
 - multiple SNA-PRM-12
 - single SNA-PRM-12
- dotted decimal formats CLAWGR-120
- dotted decimal formats
 - standard CLAWGR-120
- double byte character set (DBCS)
 - support in TPF APP-GDE-304
- DP Record Anomaly Log SPM-PRM-61
- DPANL macro GEN-MAC-155
- DPROC macro GEN-MAC-163
- DRDA (Distributed Relational Data Architecture)
 - definition of AR-USG-111
- DRDA (Distributed Relational Database Architecture)
 - AR-USG-1
- DRDA (Distributed Relational Database Architecture)
 - illustration of implementation AR-USG-2
- DRIL
 - definition of PDV-PRM-17
 - example of a record PDV-PRM-19
 - record layout PDV-PRM-18
 - records PDV-PRM-27
- driver collection/reduction SPM-PRM-87
- drop previous programs and enter a program
 - CLS-UGR-104
- DS name, determining for a PID CLS-UGR-1280
- DSA (Data Save Area) GEN-MAC-402
- DSDAC macro SYS-MAC-217
- DSECT definition, structure definition, and
 - documentation - standards PSM-GDE-25
- DSECT
 - AM0SG APP-GDE-43, APP-GDE-51
 - MI0MI APP-GDE-43
- dsects with single base register GEN-MAC-130
- DSNTIPE DB2 installation panel AR-USG-21
- DSNTIPF DB2 installation panel AR-USG-16,
 - AR-USG-21
- DSNTIPR DB2 installation panel AR-USG-18,
 - AR-USG-21
- dual control unit communications coupler feature
 - support for MIG-GD1-186, MIG-GD2-36
- dump cover page PDV-PRM-67
- Dump Facility List Generator macro GEN-MAC-291
- dump headings and labels PDV-PRM-66
- dump label index PDV-PRM-69
- dump label
 - address of
 - displaying OPR-GDE-299
 - ZDDCA command OPR-GDE-299
- dump of static blocks APP-GDE-299
- dump option codes
 - an overview PDV-PRM-10
 - CDMP PDV-PRM-10
 - DATD PDV-PRM-10
 - EBDW PDV-PRM-10
 - ECBD PDV-PRM-10
- dump option
 - record PDV-PRM-22
- dump options (DUMP)
 - for PTV control records PDV-PRM-9
- dump options
 - program test vehicle PDV-PRM-65
- Dump Override Table Build macro SYS-MAC-296
- dump override table
 - changing OPR-GDE-606
 - controlling dump content OPR-GDE-12
 - displaying OPR-GDE-606
 - ZIDOT command OPR-GDE-606
- dump record information PDV-PRM-10
- dump structures in ISO-C APP-GDE-297,
 - APP-GDE-298
- dump switches
 - displaying OPR-GDE-316
 - setting OPR-GDE-316
 - ZDECD command OPR-GDE-316
- dump tags MSP-PRM-47
- dump
 - controlling content of MIG-GD1-239, MSP-PRM-42
 - description of PDV-PRM-66
 - override table
 - building SYS-MAC-296
 - overrides, coding MSP-PRM-43
 - prefixes MSP-PRM-43
 - selective file PDV-PRM-53
 - snapshot GEN-MAC-363
 - table SYS-MAC-289
- dumps GEN-MAC-357
- dumps of ECB working storage in the SVM
 - PDV-PRM-103
- dumps
 - 3705 communications control unit
 - automatic dump option OPR-GDE-36
 - Dynamic Dump utility OPR-GDE-45
 - performing a dump OPR-GDE-36
 - purging OPR-GDE-42
 - removing from file storage OPR-GDE-42
 - writing to a dump tape (CDM) file OPR-GDE-42
 - Z3705 DMP command OPR-GDE-36
 - Z3705 PRG command OPR-GDE-42
 - Z3705 TRC command OPR-GDE-45
 - code dummy entries MIG-GD1-238
 - code overrides MIG-GD1-237
 - content
 - control MIG-GD1-9, MIG-GD1-13, MIG-GD1-19
 - control dump content MIG-GD1-264
 - description MIG-GD1-9

- dumps *(continued)*
 - content *(continued)*
 - overview MIG-GD1-9
 - tailor MIG-GD1-13
 - control (CTRL) MIG-GD1-265
 - control content MIG-GD1-229
 - controlling content of GIM-27, OPR-GDE-12
 - customize content MIG-GD1-229
 - dump override table OPR-GDE-12
 - dump override table (DOT)
 - control dump content MIG-GD1-264
 - user exit MIG-GD1-21, MIG-GD1-51
 - dump override table
 - changing OPR-GDE-606
 - displaying OPR-GDE-606
 - exclude specific areas MIG-GD1-238
 - include specific areas MIG-GD1-238
 - manual dumps
 - performing OPR-GDE-11
 - ZDUMP command OPR-GDE-11
 - modify tags MIG-GD1-265
 - multiple volumes MIG-GD1-15
 - operational (OPR) MIG-GD1-265
 - selective memory dump table (SMDT) OPR-GDE-12
 - SERRC MIG-GD1-265
 - SERRC macro options MIG-GD1-263
 - SNAPC MIG-GD1-265
 - SNAPC macro options MIG-GD1-263
 - stand-alone dump (SADUMP) utility OPR-GDE-1449
 - stand-alone dump postprocessor (SADPRT) utility
 - OPR-GDE-1449, OPR-GDE-1451
 - starting OPR-GDE-393
 - switches
 - manipulate MIG-GD1-243
 - system error options
 - changing OPR-GDE-606
 - displaying OPR-GDE-606
 - tapes MIG-GD1-261
 - view data MIG-GD1-21
 - ZASER command OPR-GDE-12
 - ZDSER command OPR-GDE-12
 - ZDUMP command OPR-GDE-393
 - ZIDOT command OPR-GDE-12, OPR-GDE-606
 - ZSPER command OPR-GDE-12
 - ZSTRC command OPR-GDE-12
- Dumps
 - system error SNA-PRM-276
- duplicate CLS-UGR-97
- duplicate node name
 - report ACF-GDE-32
- duplicate records APP-GDE-255
- duplicate
 - open file descriptor CLS-UGR-97
 - open file descriptor to another CLS-UGR-99
- duplication CON-STR-102, CON-STR-121
- duplication
 - determining record GEN-MAC-366
- dynamic address translation GIM-23
- dynamic address translation (DAT) CON-STR-26
- dynamic address translation (DAT) facility
 - 16-MB constraint relief MIG-GD1-22
- dynamic address translation (DAT) facility *(continued)*
 - changes MIG-GD1-212, MIG-GD1-213
 - control program changes MIG-GD1-230
 - data integrity MIG-GD1-22
 - data recovery MIG-GD1-22
 - description MIG-GD1-22, MIG-GD1-212, MIG-GD1-213
 - hardware facility MIG-GD1-277
 - low address protection MIG-GD1-22
 - primary function MIG-GD1-277
 - running routines MIG-GD1-236
 - set system mask (SSM)instructions MIG-GD1-231
 - storage for application programs MIG-GD1-22
 - storage for messages MIG-GD1-22
 - storage for system programs MIG-GD1-22
 - turn on and off MIG-GD1-236
 - working storage
 - manipulate MIG-GD1-212
 - view MIG-GD1-22
- dynamic address translation mode SYS-MAC-58
- Dynamic Dump utility
 - emulation program (EP) line trace function
 - running OPR-GDE-45
 - Z3705 TRC command OPR-GDE-45
- dynamic exit points
 - changing to nondynamic INS-PRM-3
- dynamic link library (DLL) load module table
 - SYS-GEN-178
- dynamic load GIM-26
- dynamic load function
 - change SNA network definitions MIG-GD1-254
 - create resource resolution table (RRT) MIG-GD1-211
 - create SNA control blocks MIG-GD1-211
 - define
 - network definitions MIG-GD1-211
 - SNA resources MIG-GD1-211
 - description MIG-GD1-211
 - dynamic loads MIG-GD1-254
 - dynamic LU support MIG-GD1-254
 - error recovery MIG-GD1-251
 - fall back to previous resource definitions
 - MIG-GD1-210
 - how to use MIG-GD1-211
 - initialize SNA control blocks MIG-GD1-211
 - load SNA resource definitions MIG-GD1-210
 - overview MIG-GD1-11
- dynamic load module (DLM)
 - environment initialization INS-PRM-39
 - external function call entry INS-PRM-42
 - external function call exit INS-PRM-41
 - return processing entry INS-PRM-45
 - return processing exit INS-PRM-43
- dynamic load modules APP-GDE-73
- dynamic LU support
 - Advanced Peer-to-Peer Networking (TPF/APPN)
 - mode MIG-GD2-18
 - ALS resources
 - considerations SNA-PRM-200
 - defining SNA-PRM-200
 - restrictions SNA-PRM-200
 - API changes MIG-GD2-207

- dynamic LU support (*continued*)
 - architecture MIG-GD2-182
 - availability improvements MIG-GD2-181
 - C/C++ language MIG-GD2-190
 - change resource definitions for non-LU resources MIG-GD1-254
 - change SNA network definitions MIG-GD1-254
 - CINFC tags MIG-GD2-191
 - commands MIG-GD2-200
 - CONKC tags MIG-GD2-191
 - copy members MIG-GD2-191
 - create resource definitions MIG-GD2-18
 - CTK2 creation MIG-GD2-206
 - customization MIG-GD2-182
 - database changes MIG-GD2-207
 - define
 - ALS resources MIG-GD1-252
 - resource definitions MIG-GD1-252
 - SNA resources MIG-GD1-252
 - dynamic load performance MIG-GD2-181
 - dynamic loads MIG-GD1-254
 - enabling dynamic LU support MIG-GD2-211
 - expandability improvements MIG-GD2-181
 - export ROUTC changes MIG-GD2-189
 - fallback MIG-GD2-211
 - fallback scenarios MIG-GD2-211
 - feature changes MIG-GD2-207
 - fixed file records MIG-GD2-192
 - fresh loads MIG-GD1-254
 - functional changes MIG-GD2-200
 - functional management message routing (FMMR) MIG-GD2-189
 - functional overview MIG-GD2-180
 - generating a TPF 4.1 system without dynamic LU support MIG-GD2-206
 - hardware MIG-GD2-190
 - historical perspective MIG-GD2-182
 - host system changes MIG-GD2-207
 - installation MIG-GD2-208, MIG-GD2-209, MIG-GD2-211
 - installation validation MIG-GD2-208
 - interfaces MIG-GD2-190
 - loading process MIG-GD2-206
 - LU section of the RVT MIG-GD2-186
 - macros MIG-GD2-192
 - migration scenarios MIG-GD2-208
 - NCB records MIG-GD2-189
 - new NCB structures MIG-GD2-189
 - new structures in the RVT MIG-GD2-188
 - non-LU section of the RVT MIG-GD2-185
 - offline ACF/SNA table generation MIG-GD1-252, MIG-GD1-254
 - offline messages MIG-GD2-201
 - online messages MIG-GD2-201
 - online system load MIG-GD2-207
 - operational changes MIG-GD2-200
 - overview MIG-GD2-180
 - performance changes MIG-GD2-205
 - planning information MIG-GD2-189
 - prerequisite APARs MIG-GD2-180
 - publication changes MIG-GD2-207

- dynamic LU support (*continued*)
 - record definition MIG-GD2-205
 - remote LU resources
 - considerations SNA-PRM-199
 - defining SNA-PRM-199
 - defining PSV routines SNA-PRM-199
 - Dynamic LU user exit SNA-PRM-199
 - restrictions SNA-PRM-199
 - RID assignments MIG-GD2-187
 - scratch pad area (SPA) MIG-GD2-189
 - segments MIG-GD2-194
 - SIP changes MIG-GD2-205
 - SNA dynamic load function MIG-GD1-254
 - SNA fresh function MIG-GD1-254
 - SNA keypoint creation MIG-GD2-206
 - SNA network resource definitions MIG-GD2-180
 - SNA resource definition MIG-GD2-18
 - software (programming requirements) MIG-GD2-190
 - storage changes MIG-GD2-205
 - storage considerations MIG-GD2-205
 - system equates MIG-GD2-200
 - system errors MIG-GD2-201
 - system generation changes MIG-GD2-205
 - tuning changes MIG-GD2-205
 - user application program definition MIG-GD2-206
 - user exits MIG-GD2-200
- dynamic LU user exit
 - scratch pad area ACF-GDE-52
- Dynamic LU user exit
 - defining remote LU resources SNA-PRM-199
- dynamic override bitmap table (DOBT)
 - changes MIG-GD1-238
 - content MIG-GD1-238
- dynamic program allocation GIM-24
- dynamic storage allocation GIM-24
- dynamic Structured Query Language (SQL) AR-USG-30
- dynamic terminal addition GIM-24
- DYNTO parameter
 - SNAKEY macro ACF-GDE-14

E

- E-level error messages ACF-GDE-31
- e-mail, processing CLS-UGR-320
- e-mail
 - TPF Internet mail server summary report SPM-PRM-33
- E-type loader (OLDR)
 - #PVRx record types MIG-GD1-207
 - activation number
 - overview MIG-GD1-11
 - add programs to a loadset MIG-GD1-79
 - allocate #OLDx records MIG-GD1-207
 - alter E-type loader
 - rules MIG-GD1-79
 - values MIG-GD1-79
 - assembly data MIG-GD1-17
 - build E-type loader records MIG-GD1-79
 - changes MIG-GD1-225, MIG-GD1-229
 - display E-type loader information MIG-GD1-79
 - E-type loader loadset directory (LSD) MIG-GD1-226

E-type loader (OLDR) *(continued)*

E-type program

- activate MIG-GD1-226, MIG-GD1-235
- activate new program versions MIG-GD1-270
- allocate new programs MIG-GD1-217
- allocate new programs in spare slots
MIG-GD1-225
- change program allocation MIG-GD1-217
- changes MIG-GD1-235, MIG-GD1-305,
MIG-GD1-306
- conserve DASD space MIG-GD1-248
- DASD allocation requirements MIG-GD1-248
- description MIG-GD1-235
- how to load MIG-GD1-203, MIG-GD1-225,
MIG-GD1-226, MIG-GD1-268
- load new program versions MIG-GD1-270
- load unallocated programs MIG-GD1-217
- loadset relationship MIG-GD1-226
- main storage blocks MIG-GD1-277
- MONTC macro MIG-GD1-220
- program allocation MIG-GD1-226
- program authorization MIG-GD1-220
- program directory (EPD) MIG-GD1-226
- protected storage MIG-GD1-220
- size MIG-GD1-212, MIG-GD1-248
- VEQR mode MIG-GD1-296

fallback MIG-GD1-79

initialize file resident E-type loader structures
MIG-GD1-79

library function

- load E-type programs MIG-GD1-225
- load function MIG-GD1-225
- loader restart MIG-GD1-79
- loadset manipulation MIG-GD1-79
- loadset
 - accept MIG-GD1-78
 - activate MIG-GD1-78
 - deactivate MIG-GD1-79
 - delete MIG-GD1-79
 - how to load MIG-GD1-79
 - manipulation MIG-GD1-79
 - relationship MIG-GD1-226
 - remove programs from MIG-GD1-79

overview MIG-GD1-11, MIG-GD1-17

program versions MIG-GD1-17

records

- #OLDx MIG-GD1-206

recover E-type loader records MIG-GD1-79

E-type loader

- accept function OPR-GDE-1058
- activate function OPR-GDE-1060
- allocation characteristics
 - changing OPR-GDE-1064
- alter function OPR-GDE-1062
- changing threshold values INS-PRM-371
- clear function OPR-GDE-1067
- clearing file resident records INS-PRM-371
- deactivate function OPR-GDE-1069
- delete function OPR-GDE-1071
- display function OPR-GDE-1072
- enhancements GIM-24

E-type loader *(continued)*

- exclude function OPR-GDE-1076
- general information INS-PRM-372
- load function OPR-GDE-1078
- offline JCL cards INS-PRM-362
- reclaim function OPR-GDE-1080
- records
 - building and recovering OPR-GDE-1080
- reininclude function OPR-GDE-1081
- structures
 - initializing OPR-GDE-1067
- use for controlling traces for C function trace
PDV-PRM-136
- values
 - changing OPR-GDE-1062
- ZOLDR ACCEPT command OPR-GDE-1058
- ZOLDR ACTIVATE command OPR-GDE-1060
- ZOLDR ALTER command OPR-GDE-1062
- ZOLDR ALTER PROGCHAR command
OPR-GDE-1064
- ZOLDR CLEAR command OPR-GDE-1067
- ZOLDR DEACTIVATE command OPR-GDE-1069
- ZOLDR DELETE command OPR-GDE-1071
- ZOLDR DISPLAY command OPR-GDE-1072
- ZOLDR EXCLUDE command OPR-GDE-1076
- ZOLDR LOAD command OPR-GDE-1078
- ZOLDR RECLAIM command OPR-GDE-1080
- ZOLDR REINCLUDE command OPR-GDE-1081

E-type program directory (EPD)

- loadset relationship MIG-GD1-226

E-type program errors PSM-GDE-13

E-type programs MSP-PRM-33

E-type programs

- controlling MSP-PRM-15

EAS keyword of VTAM APPL statement AR-USG-18

EB0EB macro APP-GDE-25

EBDW dump option code PDV-PRM-10

EBCBID SNA-PRM-71

EBW work area CLS-UGR-518, CLS-UGR-594

EBW000 CLS-UGR-518, CLS-UGR-595

EBW000 field SNA-PRM-21

ECB CON-STR-69

ECB (entry control block)

- creating INS-PRM-46

- entry GIM-15

- message GIM-15

- transaction GIM-15

ECB activation table (EAT)

- display MIG-GD1-67

- displaying OPR-GDE-302

- ZDEAT command OPR-GDE-302

ECB classifications, low-priority SPM-PRM-25

ECB classifications

- low-priority SPM-PRM-25

ECB control functions

- defrc CLS-UGR-80

- dlayc CLS-UGR-90

- entdc CLS-UGR-104

- wait CLS-UGR-684

- waitc CLS-UGR-686

- waitpid CLS-UGR-687

ECB control functions (*continued*)
 entrc CLS-UGR-106
 TPF_CALL_BY_NAME CLS-UGR-562
 ECB create functions
 __CREDC CLS-UGR-57
 __CREEC CLS-UGR-59
 __CREMC CLS-UGR-62
 __CRETCL CLS-UGR-64
 __CRETCL CLS-UGR-66
 __CREXC CLS-UGR-69
 credc CLS-UGR-57
 creec CLS-UGR-59
 cremc CLS-UGR-62
 cretc_level CLS-UGR-66
 cretc CLS-UGR-64
 crexc CLS-UGR-69
 swisc_create CLS-UGR-518
 tpf_cresc CLS-UGR-572
 tpf_fork CLS-UGR-594
 ECB exit CLS-UGR-115
 ECB Frame Usage Summary Report SPM-PRM-35
 ECB loading functions
 pausc CLS-UGR-387
 ECB origin for C function trace
 tracing PDV-PRM-136
 ECB private area MSP-PRM-22
 ECB private area (EPA) CON-STR-75
 ECB processing and TPFAR AR-USG-14, AR-USG-18,
 AR-USG-30, AR-USG-98
 ECB reference CLS-UGR-101
 ECB register CON-STR-70
 ECB time slice facility CLS-UGR-553
 ECB virtual memory (EVM) CON-STR-26,
 CON-STR-72, PDV-PRM-93
 ECB virtual memory
 description GIM-23
 description of MSP-PRM-18
 layout of APP-GDE-237, CON-STR-73,
 MIG-GD1-215, MSP-PRM-51, SYS-GEN-35
 ECB working storage in SVM PDV-PRM-103
 ECB-controlled program APP-GDE-6, CON-STR-83
 ECB-type program CON-STR-83
 ECB
 addressing APP-GDE-149
 creation APP-GDE-153
 creation for entry GEN-MAC-110
 displaying status INS-PRM-371
 exceptional condition indicators GEN-MAC-23
 parameter passing using APP-GDE-149
 program name field GEN-MAC-305
 suspend for I/O SYS-MAC-349
 trace information SYS-MAC-431
 virtual memory SYS-MAC-84
 virtual memory
 connecting SYS-MAC-16
 disconnect block SYS-MAC-27
 with attached blocks
 create GEN-MAC-107
 ECBD dump option code PDV-PRM-10
 ECBLC macro SYS-MAC-218
 ECBs
 initializing MSP-PRM-15
 sockets CLAWGR-119
 echo check MPI-PRM-17
 ECHO numbers SNA-PRM-151
 ECKD, cache DBS-REF-44
 Edit and Move Data macro GEN-MAC-164
 Edit and Send System Message macro GEN-MAC-559
 EDITA macro GEN-MAC-164
 effective group ID APP-GDE-168, APP-GDE-170
 effective user ID APP-GDE-168, APP-GDE-170
 electronic mail (e-mail), processing CLS-UGR-320
 electronic mail (e-mail)
 TPF Internet mail server summary report
 SPM-PRM-33
 ELEMENT parameter
 CDRM statement ACF-GDE-39
 element
 access by keys CON-STR-162
 accessing and modifying collections APP-GDE-107
 addressing APP-GDE-107
 equality CON-STR-163
 finding APP-GDE-108
 incrementing cursor to next CLS-UGR-1135
 iterating over all CLS-UGR-1117
 ordering of collection CON-STR-162
 removing the element represented by the key
 CLS-UGR-1219, CLS-UGR-1221
 retrieving using the specified key CLS-UGR-1200,
 CLS-UGR-1206
 returning APP-GDE-106
 uniqueness of entries CON-STR-163
 updating APP-GDE-108
 elements, TPFCS DBS-REF-131
 ELLEC macro SYS-MAC-219
 empty persistent array collection, creating
 CLS-UGR-933, CLS-UGR-937
 emulation program (EP)
 line trace function
 running OPR-GDE-45
 Z3705 TRC command OPR-GDE-45
 emulator program (EP) CON-STR-169
 enable C function trace SYS-MAC-221
 Enable/Disable Program Event Recording (PER) macro
 SYS-MAC-371
 enabling a cross-domain link SNA-PRM-14
 enabling TCP/IP native stack support CLAWGR-60
 enabling, cache DBS-REF-49
 ENATC macro SYS-MAC-221
 ENATC system macro
 controlling traces for C function trace PDV-PRM-135,
 PDV-PRM-136
 turning on breakpoints PDV-PRM-137
 turning on CDEBUG parameter PDV-PRM-133
 encode SNMP variables in BER format CLS-UGR-632
 encryption of data SNA-PRM-251
 encryption techniques SYS-GEN-140
 end a request GEN-MAC-535
 end all CLAW activity CLAWGR-395
 end and nullify recoup in a secondary processor
 ZRECP EXIT command OPR-GDE-1164

end CLAW activity on subchannel pair CLAWGR-388
 end of field
 clearing CLS-UGR-431
 flag CLS-UGR-141
 End Point Control Block (EPCB) SNA-PRM-325
 end recoup on a secondary processor
 ZRECP STOP command OPR-GDE-1209
 end user CON-STR-3
 end work performed for a transaction branch
 CLS-UGR-710
 end-of-file (EOF)
 testing for SPM-20
 end-of-file condition GEN-MAC-19
 ending a commit scope APP-GDE-94
 enhanced capacity cartridge system tape
 support for MIG-GD1-186, MIG-GD2-36
 enhancements to TPF MQSeries local queue manager
 support
 API changes MIG-GD2-1040
 architecture MIG-GD2-1034
 C/C++ language MIG-GD2-1035
 CINFC tags MIG-GD2-1037
 commands MIG-GD2-1038
 CONKC tags MIG-GD2-1037
 copy members MIG-GD2-1037
 database changes MIG-GD2-1040
 feature changes MIG-GD2-1040
 fixed file records MIG-GD2-1037
 functional changes MIG-GD2-1038
 functional overview MIG-GD2-1034
 hardware MIG-GD2-1034
 host system changes MIG-GD2-1040
 installation validation MIG-GD2-1040
 interfaces MIG-GD2-1035
 loading process MIG-GD2-1039
 macros MIG-GD2-1037
 migration scenarios MIG-GD2-1040
 offline messages MIG-GD2-1039
 online messages MIG-GD2-1039
 online system load MIG-GD2-1039
 operating environment requirements MIG-GD2-1034
 operational changes MIG-GD2-1038
 overview MIG-GD2-11, MIG-GD2-1034
 performance changes MIG-GD2-1039
 planning information MIG-GD2-1034
 prerequisite APARs MIG-GD2-1034
 publication changes MIG-GD2-1040
 segments MIG-GD2-1038
 SIP changes MIG-GD2-1039
 software (programming requirements)
 MIG-GD2-1034
 storage changes MIG-GD2-1039
 storage considerations MIG-GD2-1039
 system equates MIG-GD2-1038
 system errors MIG-GD2-1039
 system generation changes MIG-GD2-1039
 tuning changes MIG-GD2-1039
 enhancements to TPF Support for VisualAge Client
 API changes MIG-GD2-785
 architecture MIG-GD2-778
 C/C++ language MIG-GD2-779
 enhancements to TPF Support for VisualAge Client
 (continued)
 CINFC tags MIG-GD2-782
 CONKC tags MIG-GD2-782
 copy members MIG-GD2-782
 database changes MIG-GD2-785
 feature changes MIG-GD2-785
 fixed file records MIG-GD2-783
 functional changes MIG-GD2-784
 functional overview MIG-GD2-777
 host system changes MIG-GD2-785
 installation validation MIG-GD2-785
 interfaces MIG-GD2-778
 loading process MIG-GD2-785
 macros MIG-GD2-783
 migration scenarios MIG-GD2-785
 online system load MIG-GD2-785
 operating environment requirements MIG-GD2-778
 operational changes MIG-GD2-784
 overview MIG-GD2-777
 performance changes MIG-GD2-785
 planning information MIG-GD2-778
 prerequisite APARs MIG-GD2-777
 publication changes MIG-GD2-785
 segments MIG-GD2-784
 SIP changes MIG-GD2-785
 storage changes MIG-GD2-785
 storage considerations MIG-GD2-785
 system equates MIG-GD2-784
 system generation changes MIG-GD2-785
 TPF Assembler Debugger for VisualAge Client
 PUT 13 MIG-GD2-777
 TPF C Debugger for VisualAge Client
 PUT 13 MIG-GD2-777
 TPF Performance Execution Trace Analyzer for
 VisualAge Client
 PUT 13 MIG-GD2-777
 tuning changes MIG-GD2-785
 user exits MIG-GD2-784
 ENQC GEN-MAC-15
 ENQC macro GEN-MAC-169
 enqueue resource GEN-MAC-169
 ENT PDV-PRM-27
 ENTAC macro
 starting C function trace PDV-PRM-133
 stopping C function trace PDV-PRM-133
 ENTDC MSP-PRM-16
 ENTDC macro APP-GDE-227, CON-STR-80,
 GEN-MAC-171
 Enter a Program and Drop Previous Programs macro
 GEN-MAC-171
 enter a program and drop previous programs macro
 (ENTDC) CON-STR-79
 enter a program and drop previous programs macro
 (ENTDC)
 relationship with program nesting area CON-STR-80
 Enter a Program with No Return Expected macro
 GEN-MAC-173
 enter a program with no return expected macro
 (ENTNC) CON-STR-79
 enter event SPM-PRM-62

- enter processing functions
 - entdc CLS-UGR-104
 - entrc CLS-UGR-106
 - TPF_CALL_BY_NAME CLS-UGR-562
- enter program and drop previous programs CLS-UGR-104
- enter program with expected return CLS-UGR-106, CLS-UGR-562
- Enter Program with Expected Return macro GEN-MAC-175
- enter program with expected return macro (ENTRC) CON-STR-79
- Enter register assumptions PDV-PRM-76
- Enter-Back macros GEN-MAC-4
- enter-by-name
 - overview MIG-GD1-11
- enter, definition of CON-STR-80
- enter/back macros
 - BACKC MSP-PRM-16
 - ENTDC MSP-PRM-16
 - ENTNC MSP-PRM-16
 - ENTRC MSP-PRM-16
 - SWISC MSP-PRM-16
- enter/back processing
 - BACKC macro CON-STR-80
 - enter a program and drop previous programs macro (ENTDC) CON-STR-79
 - enter a program with expected return macro (ENTRC) CON-STR-79
 - enter a program with no return expected macro (ENTNC) CON-STR-79
- enter/back services APP-GDE-227
- enter/back trace GIM-26
- enter/back
 - linkage
 - reassemble the linkage editor (LEDT) MIG-GD1-228
 - trace facility
 - debug MIG-GD1-293
 - overview MIG-GD1-10, MIG-GD1-294, MIG-GD1-299
 - problem determination MIG-GD1-293
- enterprise name
 - displaying OPR-GDE-363
 - ZDSID command OPR-GDE-363
- Enterprise Storage Server
 - overview MIG-GD2-11
- Enterprise Systems Connection (ESCON) CON-STR-1
- enterprise-specific MIB retrieval INS-PRM-202
- enterprise-specific SNMP traps CLAWGR-93
- enterprise-specific traps for SNMP applications, sending CLS-UGR-608
- enterprise-specific traps, sending SNMP GEN-MAC-283
- enterprise-specific user MIB variables and SNMP CLAWGR-93
- enters per second per message SPM-PRM-67
- ENTIT PDV-PRM-27
- ENTNC MSP-PRM-16
- ENTNC macro APP-GDE-227, GEN-MAC-173
- ENTNC
 - expansions
 - activate MIG-GD1-235
 - keypoint 3 (CTK3) MIG-GD1-235
 - macro MIG-GD1-217, MIG-GD1-235
- ENTRC MSP-PRM-16
- ENTRC macro APP-GDE-227, GEN-MAC-175
- Entry CON-STR-6, CON-STR-39, CON-STR-56
- entry control block (ECB) CON-STR-6, CON-STR-57, CON-STR-69, CON-STR-74, MSP-PRM-15
- entry control block (ECB)
 - access CON-STR-70
 - active
 - displaying OPR-GDE-429
 - allocation
 - frames MIG-GD1-214
 - working storage MIG-GD1-203
 - association with an entry APP-GDE-3
 - changes MIG-GD1-214
 - common area MIG-GD1-278
 - common frame MIG-GD1-278
 - core block reference word (CBRW) CON-STR-89
 - created by tpf_fork function
 - displaying OPR-GDE-509
 - creation CON-STR-70
 - database identification (DBI) CON-STR-136
 - description of CON-STR-67
 - ECB check
 - activate MIG-GD1-83
 - deactivate MIG-GD1-83
 - ECB register CON-STR-70
 - ECB-specific trace
 - macro trace facility MIG-GD1-294
 - fields APP-GDE-28
 - fields
 - application register save area APP-GDE-38
 - control program save area APP-GDE-38
 - data levels in APP-GDE-28
 - detailed summary error indicator APP-GDE-38
 - gross summary error indicator APP-GDE-38
 - register save areas APP-GDE-38
 - TPF register save area APP-GDE-38
 - TPF-reserved areas APP-GDE-38
 - user register save area APP-GDE-38
 - file address extension word (FAXW) CON-STR-89
 - file address reference word (FARW) CON-STR-89
 - format CON-STR-70
 - general description of APP-GDE-25
 - hung
 - displaying OPR-GDE-401
 - removing OPR-GDE-401
 - unsuspending OPR-GDE-401
 - in use
 - displaying OPR-GDE-311
 - initializing APP-GDE-27
 - linking ECBs and their common services APP-GDE-26
 - looping
 - displaying OPR-GDE-401
 - minimum percentage required
 - changing OPR-GDE-975

entry control block (ECB) *(continued)*
 minimum percentage required *(continued)*
 displaying OPR-GDE-975
 program base identification (PBI) CON-STR-136
 program nesting area
 changes MIG-GD1-217
 description MIG-GD1-217
 nesting limit MIG-GD1-217
 register save area MIG-GD1-231, MIG-GD1-232
 relationship to Entry CON-STR-56
 set for CPU loop shutdown levels MIG-GD1-216
 share data MIG-GD1-308
 size CON-STR-70
 statistical data MIG-GD1-285
 storage sharing MIG-GD1-278
 system shutdown value MIG-GD1-82
 use data collection reports to calculate frames
 MIG-GD1-214
 virtual memory
 address space MIG-GD1-236
 addresses in VEQR mode MIG-GD1-297
 connect blocks to MIG-GD1-236
 convert addresses from EVM to SVM
 MIG-GD1-236
 convert addresses from SVM to EVM
 MIG-GD1-236
 disconnect blocks from MIG-GD1-236
 macro services MIG-GD1-236
 modify the system error package MIG-GD1-236
 storage layout MIG-GD1-297
 work area SYS-GEN-141
 work areas APP-GDE-25, APP-GDE-26
 working storage relationship MIG-GD1-214
 ZECBL command OPR-GDE-401
 ZFECB command OPR-GDE-429
 ZFILE ps command OPR-GDE-509
 ZNKEY command OPR-GDE-975

entry points SPM-6
 entry points
 providing linkage for APP-GDE-138

entry protection
 changes MIG-GD1-277

entry
 deferred creation GEN-MAC-105
 delay processing GEN-MAC-154
 get CCB GEN-MAC-269
 get general data set GEN-MAC-232
 in the macro information tables SYS-MAC-146
 low priority deferred creation GEN-MAC-120
 processing complete GEN-MAC-190
 set maximum time GEN-MAC-301
 time-initiated creation GEN-MAC-116

Entry
 description of CON-STR-80
 reentrancy CON-STR-41
 relative to a process CON-STR-39
 termination of CON-STR-92

ENTxC macros
 data collection for SYS-MAC-24

envelope, DATXPAGE DBS-REF-169
 environment block, TPFCS APP-GDE-101
 environment collection
 creating CLS-UGR-874
 deleting CLS-UGR-876
 environment list variables GEN-MAC-61
 environment list
 access environment variables GEN-MAC-61
 access environment variables
 CENVC GEN-MAC-61
 GET/SET/UNSET environment variables
 GEN-MAC-61
 environment support functions
 T02_createEnv CLS-UGR-874
 T02_deleteEnv CLS-UGR-876
 T02_getErrorCode CLS-UGR-877
 T02_getErrorText CLS-UGR-879
 environment table
 getenv function CLS-UGR-255
 setenv function CLS-UGR-463
 unsetenv function CLS-UGR-671
 environment variable
 add CLS-UGR-463
 change CLS-UGR-463
 delete CLS-UGR-671
 environment variables INS-PRM-149
 environment variables
 getenv function CLS-UGR-255
 setenv function CLS-UGR-463
 unsetenv function CLS-UGR-671
 creating OPR-GDE-460
 displaying OPR-GDE-460
 removing OPR-GDE-546
 unset values of OPR-GDE-546
 ZFILE export command OPR-GDE-460
 ZFILE unset command OPR-GDE-546

environment
 multiprocessing environment CON-STR-42
 report SPM-PRM-11
 uniprocessor environment CON-STR-42

EOCF/2
 software requirements MIG-GD1-201, MIG-GD2-51

EPCB (End Point Control Block) SNA-PRM-325
 epilog for assembler programs APP-GDE-220
 Epilog for functions that call TPF macro services
 GEN-MAC-399

equate macros
 use of GEN-MAC-2
 equates GEN-MAC-377

equations, data manipulation SPM-PRM-26
 equipment, unit record CON-STR-91
 EREP postprocessor MSP-PRM-48
 error SNA-PRM-275
 error code summary table CLS-UGR-861,
 CLS-UGR-874

error counts, DASD
 altering OPR-GDE-1270
 displaying OPR-GDE-1281
 ZSONS ALTER ERROR COUNTS command
 OPR-GDE-1270
 ZSONS DISPLAY ERROR COUNTS command
 OPR-GDE-1281

Error Detection and Feedback SNA-PRM-276

error handling for SQL AR-USG-32
 error handling, TPFCS APP-GDE-102, APP-GDE-103,
 CLS-UGR-860, CON-STR-167
 error indicator, IDECSUD APP-GDE-32
 error limits, DASD
 altering OPR-GDE-1273
 displaying OPR-GDE-1284
 ZSONS ALTER ERROR COUNTS command
 OPR-GDE-1273
 ZSONS DISPLAY ERROR COUNTS command
 OPR-GDE-1284
 error listings
 system allocator (SALO) INS-PRM-407
 error messages SPM-PRM-95
 error messages
 data generation PDV-PRM-44
 for STC PDV-PRM-44
 linkage editor PDV-PRM-44
 program test vehicle (PTV) PDV-PRM-15
 standard data message update PDV-PRM-44
 STC control program PDV-PRM-44
 STC I/O program PDV-PRM-44
 STC loader PDV-PRM-44
 error on statement ACF-GDE-31
 error processing functions
 perror CLS-UGR-389
 serrc_op_ext CLS-UGR-456
 serrc_op_slt CLS-UGR-458
 serrc_op CLS-UGR-454
 snapc CLS-UGR-508
 error recovery CON-STR-92, MSP-PRM-39,
 SNA-PRM-3
 error recovery for PTV PDV-PRM-13
 error
 codes for RELPC macro GEN-MAC-332
 codes in SUD GEN-MAC-23
 detection SNA-PRM-275
 detection and feedback SNA-PRM-276
 from LU attached to 3271 SNA-PRM-247
 from LU attached to 3274/3276 SNA-PRM-247
 functions APP-GDE-276
 in files CLS-UGR-143
 indicator CLS-UGR-143
 indicator, clearing CLS-UGR-431
 indicators for GETPC macro GEN-MAC-256
 invalid pseudo line number SNA-PRM-48
 log for CLAW
 TCLAC macro SYS-MAC-477
 macro GEN-MAC-357
 macro for applications GEN-MAC-378
 path malfunctions SNA-PRM-203
 processing APP-GDE-275
 recording macro GEN-MAC-33
 recovery SNA-PRM-277
 errors, TPFDF
 testing for SPM-19
 errors
 I/O hardware GEN-MAC-22
 macro parameter GEN-MAC-22
 recovery
 dynamic load function MIG-GD1-251
 errors (*continued*)
 storage overlay MIG-GD1-277
 ESA architecture CON-STR-24
 ESA configuration CON-STR-1, CON-STR-24
 ESA configuration
 and multiprocessing CON-STR-21
 ESCON CON-STR-1
 ESCON channel-to-channel (ESCON CTC) MPI-PRM-3
 ESFAC macro SYS-MAC-226
 establishing a session SNA-PRM-20
 establishing LU-LU sessions SNA-PRM-4
 estimate, capture timing DBS-REF-69
 estimate, tape volume DBS-REF-72
 EV0BK GEN-MAC-183
 event element completion CLS-UGR-395
 event facility GEN-MAC-14, GEN-MAC-187
 Event Facility GEN-MAC-181
 event facility
 wait GEN-MAC-187
 Event Facility
 define GEN-MAC-181
 increment count GEN-MAC-177
 Status GEN-MAC-179
 EVENT facility
 modify programs to share ECBs MIG-GD1-305
 Event Status macro GEN-MAC-179
 event table
 changes MIG-GD1-11
 event
 define internal CLS-UGR-111
 destruction GEN-MAC-14
 increment count CLS-UGR-108
 mark completion CLS-UGR-113
 query status CLS-UGR-109
 timeout GEN-MAC-14
 user area definition GEN-MAC-183
 wait for completion with signal awareness
 CLS-UGR-627
 events
 asynchronous I/O SYS-MAC-392
 EVINC macro GEN-MAC-177
 EVINC
 define user event area GEN-MAC-183
 EVM SYS-MAC-84
 EVM Address SYS-MAC-40
 EVM address conversion SYS-MAC-276
 EVM address to SVM address conversion SYS-MAC-46
 EVM address validation SYS-MAC-93
 EVM storage
 get contiguous SYS-MAC-44
 EVM to SVM data movement SYS-MAC-62,
 SYS-MAC-350
 EVM
 description GIM-23
 EVNQC GEN-MAC-14
 EVNQC macro GEN-MAC-179
 EVNTC GEN-MAC-14
 EVNTC macro GEN-MAC-181
 EVNWC GEN-MAC-14
 EVNWC macro GEN-MAC-187

EVNWC
 define user event area GEN-MAC-183
 EX0AU macro APP-GDE-242
 examine and change blocked signals CLS-UGR-499
 examine and change signal action CLS-UGR-486
 examine pending signals CLS-UGR-498
 Example of an IBM indexed SVC: SYS-MAC-184
 example transaction APP-GDE-11
 example, timing DBS-REF-68
 example
 path names CON-STR-153
 using symbolic link CON-STR-155
 examples
 # macro SPM-30
 #CASE macro group SPM-33
 #CONB macro SPM-36
 #COND macro SPM-38
 #CONH macro SPM-40
 #CONP macro SPM-42
 #CONS macro SPM-45
 #CONT macro SPM-47
 #CONX macro SPM-48
 #DO macro group SPM-55
 #EXEC macro SPM-61
 #GOTO macro group SPM-64
 #IF macro group SPM-67
 #SPM macro SPM-69
 #STPC macro SPM-71
 #STPF macro SPM-72
 #STPH macro SPM-74
 #STPR macro SPM-77
 #SUBR macro group SPM-79
 Boolean combinations SPM-26
 Boolean expressions, condensed SPM-24
 CASE macro group SPM-93
 conditional expressions
 branch on condition code SPM-20
 checking a CPU ID SPM-22
 compare conditional expression SPM-21
 noncompare SPM-21
 testing SW00RT2 SPM-22
 testing SW00RTN SPM-22
 TPF and ALCS macros SPM-21
 DCL macro SPM-97
 DCLREG macro SPM-98
 DO macro group SPM-103
 file access report SPM-PRM-42
 GOTO macro SPM-105
 IF macro group SPM-110
 LEAVE macro SPM-113
 LET macro SPM-116
 SELECT macro group SPM-121
 SET macro SPM-123
 system report SPM-PRM-13, SPM-PRM-16
 exception reached recovery node (RRN) SNA-PRM-251
 exception record DBS-REF-91
 exception recording CON-STR-104, DBS-REF-61
 exception recording
 changes MIG-GD1-249
 interface to virtual file access (VFA) MIG-GD1-249
 exception recording (*continued*)
 record attribute
 changing OPR-GDE-1244
 displaying OPR-GDE-1240
 ZRTDM DISPLAY command OPR-GDE-1240
 ZRTDM MODIFY command OPR-GDE-1244
 restoring records OPR-GDE-582
 starting OPR-GDE-406
 ZFCAP command OPR-GDE-406
 ZFRST XCP command OPR-GDE-582
 exception tape CON-STR-145
 exceptional condition identification fields GEN-MAC-23
 exceptional conditions
 ECB indicators GEN-MAC-23
 exchanging data SNA-PRM-3
 exclusive lock, creating APP-GDE-116, DBS-REF-142
 EXEC PARM field
 description of ACF-GDE-29
 example ACF-GDE-57
 executable script
 process inheritance APP-GDE-168
 starting a TPF application with CON-STR-194
 writing APP-GDE-189
 execute a command CLS-UGR-527
 execute channel program (EXCP) SYS-GEN-78
 executing job stream (stage II)
 analyzing errors SYS-GEN-329
 macro description SYS-GEN-329
 execution phase SPM-PRM-94
 executive macro instruction format GEN-MAC-2
 executive macros GEN-MAC-1
 exit an ECB CLS-UGR-115
 exit code
 GROUP macro MIG-GD1-283
 exit control GEN-MAC-519
 exit functions APP-GDE-233
 exit functions
 abort function APP-GDE-233
 exit function APP-GDE-8, APP-GDE-233
 serrc_op_ext function APP-GDE-234
 serrc_op function APP-GDE-234
 snapc function APP-GDE-234
 serrc function APP-GDE-234
 exit interface linkage SYS-MAC-506
 Exit macro GEN-MAC-15
 exit points SPM-6
 exit points
 changing INS-PRM-3
 exit processing APP-GDE-154, CON-STR-92
 exit processing
 #GOTO macro SPM-63
 GOTO macro SPM-105
 EXIT routine MSP-PRM-18
 exit status APP-GDE-170
 EXIT_FAILURE macro in stdlib.h CLS-UGR-115
 EXIT_SUCCESS macro in stdlib.h CLS-UGR-115
 EXITC MSP-PRM-18
 EXITC macro GEN-MAC-190
 exiting a program CLS-UGR-115
 expanding an application APP-GDE-281
 expansion capability for database CON-STR-129

- expansions of macros
 - contents GEN-MAC-4
- expected arm movement SPM-PRM-47
- explicit routing information
 - displaying OPR-GDE-972
 - ZNETW ROUTE command OPR-GDE-972
- expression enhancements for the TPF debuggers
 - SYS-GEN-121
- expression enhancements for the TPF debuggers
 - API changes MIG-GD2-1059
 - architecture MIG-GD2-1043
 - C/C++ language MIG-GD2-1050
 - CINFC tags MIG-GD2-1055
 - commands MIG-GD2-1057
 - CONKC tags MIG-GD2-1055
 - copy members MIG-GD2-1055
 - database changes MIG-GD2-1059
 - feature changes MIG-GD2-1059
 - fixed file records MIG-GD2-1055
 - functional changes MIG-GD2-1057
 - functional overview MIG-GD2-1042
 - host system changes MIG-GD2-1059
 - installation validation MIG-GD2-1059
 - interfaces MIG-GD2-1050
 - loading process MIG-GD2-1059
 - macros MIG-GD2-1055
 - migration scenarios MIG-GD2-1059
 - offline messages MIG-GD2-1057
 - online messages MIG-GD2-1057
 - online system load MIG-GD2-1059
 - operating environment requirements MIG-GD2-1050
 - operational changes MIG-GD2-1057
 - overview MIG-GD2-11, MIG-GD2-1042
 - performance changes MIG-GD2-1058
 - planning information MIG-GD2-1050
 - prerequisite APARs MIG-GD2-1042
 - publication changes MIG-GD2-1059
 - segments MIG-GD2-1056
 - SIP changes MIG-GD2-1058
 - storage changes MIG-GD2-1058
 - storage considerations MIG-GD2-1058
 - system equates MIG-GD2-1057
 - system errors MIG-GD2-1057
 - system generation changes MIG-GD2-1058
 - tuning changes MIG-GD2-1058
 - user exits MIG-GD2-1057
- extended global area
 - layout MIG-GD1-209
- extended globals CON-STR-140, INS-PRM-304
- extended globals
 - support SYS-GEN-40
- extended limited lock facility (ELLF)
 - support for MIG-GD1-202, MIG-GD2-52
- Extended Limited Lock Facility
 - interface ID MSP-PRM-4
- extended MCHR addresses DBS-REF-11
- Extended Operations Console Facility/2 (EOCF/2)
 - CON-STR-92
- extended options CLS-UGR-154
- extended structures DBS-REF-181

- extended structures
 - with DASDFLAT attributes DBS-REF-197
 - with DASDHASH attributes DBS-REF-198
 - with DASDINDEX attributes DBS-REF-188
 - with DASDLIST attributes DBS-REF-202
- extended time-initiated entry CLS-UGR-66
- external device interfaces
 - tape_access CLS-UGR-532
 - tdspc_v CLS-UGR-547
 - tdtac CLS-UGR-549
 - tpcnc CLS-UGR-560
 - TPFxd_archiveEnd CLS-UGR-1360
 - TPFxd_archiveStart CLS-UGR-1361
 - TPFxd_close CLS-UGR-1363
 - TPFxd_getPosition CLS-UGR-1365
 - TPFxd_getPrevPosition CLS-UGR-1367
 - TPFxd_getVOLSER CLS-UGR-1369
 - TPFxd_getVOLSERlist CLS-UGR-1371
 - TPFxd_nextVolume CLS-UGR-1372
 - TPFxd_open CLS-UGR-1374
 - TPFxd_read CLS-UGR-1376
 - TPFxd_readBlock CLS-UGR-1378
 - TPFxd_setPosition CLS-UGR-1380
 - TPFxd_sync CLS-UGR-1382
 - TPFxd_write CLS-UGR-1384
 - TPFxd_writeBlock CLS-UGR-1386
 - error code table CLS-UGR-1358, CLS-UGR-1359
- external device support CLS-UGR-1357,
 - CON-STR-166, DBS-REF-145
- External interrupts SYS-MAC-58
- external lock facility SYS-GEN-60
- external lock facility (XLF) CON-STR-21, CON-STR-32,
 - CON-STR-49, CON-STR-109
- external lock facility (XLF)
 - description CON-STR-144
 - lock maintenance CON-STR-104
- external symbol CON-STR-79

F

- FA4X4C macro GEN-MAC-191
- FAC8C macro APP-GDE-251, GEN-MAC-193
- FACE driver DBS-REF-121
- FACE driver and offline interface (DFAD) DBS-REF-121
- FACE driver and offline interface (DFAD)
 - FACE driver and offline interface (DFAD)
 - DBS-REF-121
- FACE interface SYS-MAC-228
- FACE table generation SYS-GEN-186
- FACE table generation
 - changes MIG-GD1-204
 - overview MIG-GD1-11
- FACE table information GEN-MAC-340
- face_facs function APP-GDE-254
- FACE/FACS program APP-GDE-15, APP-GDE-251
- FACS interface SYS-MAC-228
- FACZC macro SYS-MAC-228
- FACZC utility
 - access
 - I-stream unique records MIG-GD1-247
 - processor unique records MIG-GD1-247
 - description MIG-GD1-247

FACZC utility (*continued*)
 differences between FACE and FACS MIG-GD1-247
 output description MIG-GD1-247
 similarities with FACE and FACS MIG-GD1-247

fallback for pool CON-STR-129

fallback pool sections
 long-term pool sections SYS-GEN-71
 primary fallback SYS-GEN-71
 secondary fallback SYS-GEN-71
 short-term basic pool type SYS-GEN-71

fallback
 communication device OPR-GDE-11
 communication line OPR-GDE-11
 control unit OPR-GDE-11
 device OPR-GDE-11

FARF address conversion CLS-UGR-75,
 GEN-MAC-125

FARF address generation (UCCFSP) INS-PRM-50

FARF file address
 buffer control area (BCA) core address
 displaying OPR-GDE-1426
 buffer core address
 displaying OPR-GDE-1426
 buffer type
 displaying OPR-GDE-1426
 converting to MCHR file address OPR-GDE-763
 dispensing mode
 changing OPR-GDE-784
 filing status
 displaying OPR-GDE-1426
 locating in VFA OPR-GDE-1426
 ZMCHR command OPR-GDE-763
 ZMODE command OPR-GDE-784
 ZVFAC LOCATE command OPR-GDE-1426

FARF3 DBS-REF-5

FARF4 GIM-25

FARF4
 address format GIM-25
 description GIM-28
 transition step GIM-28

FARF5 GIM-25

FARF5
 address format GIM-25

FARW GEN-MAC-6, GEN-MAC-16, GEN-MAC-18

FARW initialization CLS-UGR-120

fast control program interface CLS-UGR-40

fast control program interface for any active subsystem
 CLS-UGR-41

fast link macros in macro decoder SYS-MAC-146

fast link
 macro decoders MIG-GD1-19
 macro table
 add macro definitions MIG-GD1-232
 macros MIG-GD1-19

fast recovery table SYS-GEN-20

Fast Transaction Processing Interface (FTPI)
 SNA-PRM-2, SNA-PRM-32

Fast Transaction Processing Interface (FTPI)
 command content SNA-PRM-34
 message blocking format SNA-PRM-33
 NPSI considerations for SNA-PRM-37

Fast Transaction Processing Interface (FTPI)
(continued)
 traces SNA-PRM-42
 VTAM considerations for SNA-PRM-37

fast write CON-STR-143

fast-link macro decoder MSP-PRM-20

fast-link macro table
 creation SYS-MAC-180

fast-link macros MSP-PRM-19

fault-rate threshold
 changes MIG-GD1-235
 channel failures MIG-GD1-235
 description MIG-GD1-235
 process failures
 catastrophic MIG-GD1-235
 non-catastrophic MIG-GD1-235
 processor errors MIG-GD1-235

FC0TB macro INS-PRM-402

FCTBG offline program
 generate
 CYMZ table MIG-GD1-208
 DASD deck MIG-GD1-208
 FACE table MIG-GD1-208
 SYCON table MIG-GD1-208
 record types MIG-GD1-208
 run to generate a FACE table MIG-GD1-245

FCTL macro SYS-MAC-233

FDCTC macro APP-GDE-262, DBS-REF-3,
 SYS-MAC-237

FDT CLAWGR-24

feature
 High Performance Option (HPO) MIG-GD1-7
 Multi-Processor Interconnect Facility (MPIF)
 MIG-GD1-7
 softcopy publications MIG-GD1-8
 TPF Application Requester (TPFAR) MIG-GD1-7

fiber channel support
 overview MIG-GD2-11

FID5 TH SNA-PRM-151

field definitions for globals GEN-MAC-264

field lockout APP-GDE-249

field scan macro GEN-MAC-349

field set operands
 for STC PDV-PRM-26

field
 CY3BON MIG-GD1-247
 CY3DIR MIG-GD1-247
 CY3ORD MIG-GD1-247
 new fields MIG-GD1-247

fields PSM-GDE-4

fields, data event control block (DECB) APP-GDE-30

FIFO special file CON-STR-158

FIFO special file support
 API changes MIG-GD2-802
 architecture MIG-GD2-787
 C/C++ language MIG-GD2-788
 CINFC tags MIG-GD2-798
 commands MIG-GD2-800
 CONKC tags MIG-GD2-798
 copy members MIG-GD2-798
 database changes MIG-GD2-802

FIFO special file support *(continued)*
 feature changes MIG-GD2-802
 fixed file records MIG-GD2-798
 functional changes MIG-GD2-800
 functional overview MIG-GD2-787
 host system changes MIG-GD2-802
 installation validation MIG-GD2-802
 interfaces MIG-GD2-788
 loading process MIG-GD2-801
 macros MIG-GD2-798
 migration scenarios MIG-GD2-803
 offline messages MIG-GD2-800
 online messages MIG-GD2-800
 online system load MIG-GD2-801
 operating environment requirements MIG-GD2-788
 operational changes MIG-GD2-800
 overview MIG-GD2-12, MIG-GD2-787
 performance changes MIG-GD2-801
 planning information MIG-GD2-788
 prerequisite APARs MIG-GD2-787
 publication changes MIG-GD2-801
 segments MIG-GD2-799
 SIP changes MIG-GD2-801
 storage changes MIG-GD2-801
 storage considerations MIG-GD2-801
 system equates MIG-GD2-800
 system errors MIG-GD2-800
 system generation changes MIG-GD2-801
 tuning changes MIG-GD2-801
 user exits MIG-GD2-800

FIFO special file, creating CLS-UGR-328

FIFO special file
 creating OPR-GDE-500
 ZFILE mkfifo command OPR-GDE-500

file GEN-MAC-6

file (write) a record CON-STR-89

File a Record macro GEN-MAC-195

file a record with extended options: basic
 CLS-UGR-154

file a record with extended options: higher level
 CLS-UGR-161

file a record with no release CLS-UGR-165

file a record with no release and extended options
 CLS-UGR-167

File a Record with No Release macro GEN-MAC-200

file a record: basic CLS-UGR-152

file a record: higher level CLS-UGR-158

file a record
 and unhold CLS-UGR-170
 and unhold with extended options CLS-UGR-172
 basic CLS-UGR-152
 higher level CLS-UGR-158
 with extended options: basic CLS-UGR-154
 with extended options: higher level CLS-UGR-161
 with no release CLS-UGR-165
 with no release and extended options CLS-UGR-167

File a Single Record macro GEN-MAC-203

File a Special Record macro SYS-MAC-243

file accesses per cylinder SPM-PRM-47

file accesses per record id SPM-PRM-46

file accesses per record id report SPM-PRM-84

file accessibility CON-STR-150

file accessibility
 general discussion APP-GDE-170
 rules to determine APP-GDE-171

file address CON-STR-105, GEN-MAC-230

file address calculation CLS-UGR-589

file address compute (FACE) table (FCTB)
 CON-STR-105, CON-STR-130

file address compute (FACE) table (FCTB)
 database reorganization CON-STR-145

file layout CON-STR-148

file address compute macro (FAC8C) CON-STR-105

file address compute macro (FACZC) CON-STR-105

file address compute program (FACE) CON-STR-105

file address compute program (FACE) table data
 displaying OPR-GDE-320
 ZDFCT command OPR-GDE-320

file address compute program (FACE) table
 user exit MIG-GD1-54

file address compute program (FACE)
 driver and offline interface SYS-GEN-162

FACE table
 build MIG-GD1-209, MIG-GD1-246
 changes MIG-GD1-11, MIG-GD1-208,
 MIG-GD1-212, MIG-GD1-218, MIG-GD1-247
 content MIG-GD1-242
 generate for FARF3 to FARF4 migration
 MIG-GD1-245
 how to access MIG-GD1-247
 how to load MIG-GD1-245, MIG-GD1-246
 IBM MVS linkage editor (LEDT) MIG-GD1-208
 subsystem index MIG-GD1-247
 table generation MIG-GD1-19, MIG-GD1-208,
 MIG-GD1-242, MIG-GD1-246
 universal format type (UFT)/format type indicator
 (FTI) conversion table location MIG-GD1-242
 use of ordinals to access MIG-GD1-247
 overview MIG-GD1-21
 program SYS-GEN-39
 system initialization MIG-GD1-19
 table (FCTB) SYS-GEN-39

file address compute program (FACS) CON-STR-105

file address decoding
 FARF address generation INS-PRM-50
 split access user exit INS-PRM-81
 split chain header access user exit INS-PRM-82

file address extension word (FAXW) APP-GDE-29,
 CON-STR-89

file address formats DBS-REF-3, DBS-REF-22

file address generation CLS-UGR-120

file address logging PDV-PRM-53

file address reference format (FARF) CON-STR-106

file address reference format (FARF)
 application program considerations MIG-GD1-314
 changes MIG-GD1-241
 control bits CON-STR-106
 convert to extended MCHR format addresses
 MIG-GD1-65, MIG-GD1-74
 database reorganization CON-STR-145
 display from record type and ordinal number
 MIG-GD1-66

- file address reference format (FARF) *(continued)*
 - file address reference format 3 (FARF3)
 - MIG-GD1-241
 - file address reference format 4 (FARF4)
 - MIG-GD1-241
 - file address reference format 5 (FARF5)
 - MIG-GD1-241
 - migration aid MIG-GD1-15
 - new address formats MIG-GD1-241
 - records
 - alternate mode record MIG-GD1-246
 - input/output blocks (IOBs) MIG-GD1-246
 - remove MIG-GD1-246
- file address reference format 3 (FARF3) CON-STR-106
- file address reference format 3 (FARF3)
 - addressing capacity MIG-GD1-12
 - changes MIG-GD1-241
 - coexistence MIG-GD1-242
 - coexistence with FARF5 MIG-GD1-243
 - convert to FARF4 MIG-GD1-244
 - description MIG-GD1-241
 - dispensing modes MIG-GD1-75
 - file address compute program (FACE) table
 - MIG-GD1-242
 - flag old FARF3 addresses MIG-GD1-246
 - generate FACE table for migration to FARF4
 - MIG-GD1-245
 - indicator bits MIG-GD1-242
 - layout MIG-GD1-241
 - migrate to FARF4 MIG-GD1-242, MIG-GD1-245
 - migrate to FARF5 MIG-GD1-242
 - migration considerations MIG-GD1-245
 - record type MIG-GD1-246
 - restrictions MIG-GD1-241
- file address reference format 4 (FARF4) CON-STR-106
- file address reference format 4 (FARF4)
 - address dispensing while migrating to FARF5
 - MIG-GD1-244
 - addressing capacity MIG-GD1-12, MIG-GD1-242
 - changes MIG-GD1-204
 - characteristics MIG-GD1-242
 - coexistence MIG-GD1-242
 - decode FARF4 addresses MIG-GD1-246
 - description MIG-GD1-241
 - differences with FARF5 MIG-GD1-242
 - dispensing modes MIG-GD1-75
 - file address compute program (FACE) table
 - MIG-GD1-242
 - generate FACE table for migration from FARF3
 - MIG-GD1-245
 - indicator bits MIG-GD1-242
 - layout MIG-GD1-243
 - migrate from FARF3 MIG-GD1-242, MIG-GD1-245
 - migrate to FARF5 MIG-GD1-242, MIG-GD1-243,
 - MIG-GD1-246
 - restrictions MIG-GD1-243
 - storage in universal format type (UFT)/format type
 - indicator (FTI) conversion table MIG-GD1-242
 - structure MIG-GD1-243
 - use as a migration path between FARF3 and FARF5
 - MIG-GD1-243
- file address reference format 5 (FARF5) CON-STR-106
 - file address reference format 5 (FARF5)
 - addressing capacity MIG-GD1-12, MIG-GD1-242
 - changes MIG-GD1-204
 - characteristics MIG-GD1-242
 - coexistence MIG-GD1-242
 - coexistence with FARF3 MIG-GD1-243
 - decode FARF5 addresses MIG-GD1-246
 - description MIG-GD1-241
 - differences with FARF4 MIG-GD1-242
 - dispensing modes MIG-GD1-75
 - layout MIG-GD1-244
 - migrate from FARF3 MIG-GD1-242
 - migrate from FARF4 MIG-GD1-242, MIG-GD1-243,
 - MIG-GD1-246
 - storage in universal format type (UFT)/format type
 - indicator (FTI) conversion table MIG-GD1-242
 - structure MIG-GD1-243
- file address reference format 6 (FARF6) CON-STR-106
- file address reference word GEN-MAC-6,
 - GEN-MAC-16, GEN-MAC-18
- file address reference word (FARW) APP-GDE-29,
 - CON-STR-89
- file address reference word (FARW)
 - description of APP-GDE-149
- file address reference words (FARW) SYS-GEN-24
- file address
 - calculating GEN-MAC-193
 - characteristics SYS-MAC-226
 - characteristics
 - symbolic GEN-MAC-366
 - computation SYS-MAC-228
 - computation for fixed SYS-MAC-264
 - converting GEN-MAC-191
 - converting FARF to MCHR OPR-GDE-763
 - converting MCHR to FARF OPR-GDE-230
 - displaying information for OPR-GDE-318
 - dumping OPR-GDE-1251
 - generation CLS-UGR-120
 - get GEN-MAC-228, GEN-MAC-230
 - imbedded PDV-PRM-30
 - information
 - getting SYS-MAC-218, SYS-MAC-226
 - low-level compute CLS-UGR-117
 - ordinal number
 - displaying OPR-GDE-241
 - record type
 - displaying OPR-GDE-241
 - release GEN-MAC-319
 - tracing OPR-GDE-1342, OPR-GDE-1387
 - VFA
 - flushing OPR-GDE-1423
 - purging OPR-GDE-1429
 - removing from VFA OPR-GDE-1423,
 - OPR-GDE-1429
 - ZVFAC FLUSH command OPR-GDE-1423
 - ZVFAC PURGE command OPR-GDE-1429
 - ZCSON command OPR-GDE-230
 - ZDADD command OPR-GDE-241
 - ZDFAI command OPR-GDE-318
 - ZMCHR command OPR-GDE-763

- file address *(continued)*
 - ZSELD command OPR-GDE-1251
 - ZTHLT command OPR-GDE-1342
 - ZTRCE command OPR-GDE-1387
- file addresses, returning head of chain CLS-UGR-1325
- file addresses
 - addressing capacity
 - expansion MIG-GD1-241
 - FARF3 MIG-GD1-12
 - FARF4 MIG-GD1-12
 - FARF5 MIG-GD1-12
 - limitations MIG-GD1-241
 - overview MIG-GD1-12
 - alter
 - data records MIG-GD1-306
 - program records MIG-GD1-306
 - database reorganization considerations
 - MIG-GD1-245
 - decode FARF4 addresses MIG-GD1-246
 - decode FARF5 addresses MIG-GD1-246
 - determine address format MIG-GD1-245
 - flag old FARF3 addresses MIG-GD1-246
 - get address attributes MIG-GD1-306
 - migrate FARF3 to FARF4 MIG-GD1-242, MIG-GD1-245
 - migrate FARF3 to FARF5 MIG-GD1-242
 - migrate FARF4 to FARF5 MIG-GD1-246
 - migrate FARF5 to FARF5 MIG-GD1-243
 - migration considerations MIG-GD1-242
 - online file recoup considerations MIG-GD1-245
 - structure of FARF4 and FARF5 MIG-GD1-243
- file addressing APP-GDE-250
- file and unhold a record CLS-UGR-170
- File and Unhold a Record macro GEN-MAC-205
- file and unhold a record with extended options
 - CLS-UGR-172
- file and unhold macro (FILUC)
 - relationship with record hold table CON-STR-109
- file capture and restore CON-STR-104, CON-STR-145
- file capture and restore
 - capture timing estimate DBS-REF-69
 - disk time calculations DBS-REF-69
 - exception tape CON-STR-145
 - full restore CON-STR-145
 - keypoint record DBS-REF-72
 - load balancing CON-STR-145
 - magnetic tape CON-STR-145
 - partial restore CON-STR-145
 - restore timing estimate DBS-REF-71
 - tape time calculation DBS-REF-70
 - tape volume estimate DBS-REF-72
 - timing DBS-REF-67
 - timing example DBS-REF-68
- file collector OPR-GDE-1457
- file comparison plot SPM-PRM-48
- File Control macro SYS-MAC-233
- file copy database utility CON-STR-147
- file copy
 - altering module status OPR-GDE-767, OPR-GDE-773
 - copying all files OPR-GDE-765
- file copy *(continued)*
 - displaying file copy status OPR-GDE-772
 - limiting copies OPR-GDE-770
 - pausing OPR-GDE-768
 - restarting OPR-GDE-769
 - safe store
 - creating OPR-GDE-977
 - stopping OPR-GDE-764
 - ZMCPY ABORT command OPR-GDE-764
 - ZMCPY ALL command OPR-GDE-765
 - ZMCPY DOWN command OPR-GDE-767
 - ZMCPY PAUSE command OPR-GDE-768
 - ZMCPY RESTART command OPR-GDE-769
 - ZMCPY SET command OPR-GDE-770
 - ZMCPY STATUS command OPR-GDE-772
 - ZMCPY UP command OPR-GDE-773
 - ZNKEY command OPR-GDE-977
- File Data Chain Transfer macro SYS-MAC-237
- file data chain transfer macro (FDCTC) CON-STR-143
- file descriptor CLS-UGR-1409
- file descriptor table (FDT) CLAWGR-24
 - file descriptor table (FDT)
 - CLAWFD value CLAWGR-25
 - updated CLAWGR-24
- file descriptors
 - TCP/IP support
 - current value OPR-GDE-973
 - ZNKEY command OPR-GDE-973
- File Keyword macro GEN-MAC-198
- file macro
 - data collection SYS-MAC-24
- File macro
 - ID errors GEN-MAC-22
- file macros GEN-MAC-9
- file mode CLS-UGR-32
- file mode
 - chmod CLS-UGR-32
- file module PDV-PRM-6
- file name format used by the TFTP server
 - APP-GDE-175
- file ownership CON-STR-150
- file permissions CLS-UGR-9
 - file permissions
 - access CLS-UGR-9
- file pool address
 - returning GEN-MAC-329
- file pool directory records
 - short-term
 - recycling OPR-GDE-601
 - updating OPR-GDE-394
 - ZDUPD command OPR-GDE-394
 - ZGFSP RCY command OPR-GDE-601
- file pool fallback GEN-MAC-8
- file pool records
 - address
 - getting OPR-GDE-584
 - getting by ID OPR-GDE-586
 - altering parameters for OPR-GDE-592
 - counts
 - displaying OPR-GDE-325
 - reconciling OPR-GDE-1213

- file pool records *(continued)*
 - deactivating OPR-GDE-1249
 - directory set
 - changing the size of OPR-GDE-604
 - fallback schedule
 - specifying OPR-GDE-597
 - get file storage (GFS)
 - displaying parameters OPR-GDE-594
 - setting options OPR-GDE-599
 - long-term
 - altering allowed use of OPR-GDE-588
 - altering minimum count for OPR-GDE-590
 - ratio dispensing schedule
 - specifying OPR-GDE-602
 - ZDFPC command OPR-GDE-325
 - ZGAFA command OPR-GDE-584
 - ZGAFI command OPR-GDE-586
 - ZGFSP command OPR-GDE-588, OPR-GDE-590, OPR-GDE-592
 - ZGFSP DSP command OPR-GDE-594
 - ZGFSP FLB command OPR-GDE-597
 - ZGFSP OPT command OPR-GDE-599
 - ZGFSP RTO command OPR-GDE-602
 - ZGFSP SET command OPR-GDE-604
 - ZRFPC command OPR-GDE-1213
 - ZSDEA command OPR-GDE-1249
- file pool storage release CLS-UGR-423
- file queues SPM-PRM-83
- file record find GEN-MAC-208, GEN-MAC-214, SYS-MAC-29
- file record find and hold GEN-MAC-210
- file record find and wait GEN-MAC-216
- file record headers APP-GDE-264
- file record unhold GEN-MAC-510
- file record
 - changing
 - duplicate copy OPR-GDE-62
 - file copy OPR-GDE-62
 - prime copy OPR-GDE-62
 - VFA copy OPR-GDE-62
 - displaying
 - duplicate copy OPR-GDE-322
 - prime copy OPR-GDE-322
 - printing OPR-GDE-322
 - referencing GEN-MAC-8
 - ZAFIL command OPR-GDE-62
 - ZDFIL command OPR-GDE-322
- file records, accessing with a data event control block (DECB) APP-GDE-31
- file recoup database utility CON-STR-147
- file reduction report
 - changes MIG-GD1-289
 - data reduction MIG-GD1-289
- file reference functions
 - summary of APP-GDE-260
- file reference macros
 - summary of APP-GDE-260
- file representation of objects, TPFCS DBS-REF-164
- file resident SYS-GEN-37
- file resident program
 - program allocation MIG-GD1-218
- file resident program *(continued)*
 - summary of CLASS values MIG-GD1-219
- file resident programs
 - allocating INS-PRM-402
- file resident
 - user program allocation SYS-GEN-37
- File Status Table Information macro GEN-MAC-226
- file storage address GEN-MAC-252
- file storage
 - access APP-GDE-257
 - address GEN-MAC-252
 - allocation APP-GDE-250
 - get address GEN-MAC-258
 - get large file address GEN-MAC-252
 - releasing addresses GEN-MAC-6
- file system initialization
 - increase number of i-nodes OPR-GDE-554
 - ZFINT command OPR-GDE-554
- file system support
 - API changes MIG-GD2-383
 - architecture MIG-GD2-370
 - C/C++ language MIG-GD2-371
 - CINFC tags MIG-GD2-378
 - commands MIG-GD2-381
 - CONKC tags MIG-GD2-378
 - copy members MIG-GD2-378
 - customization MIG-GD2-384
 - database changes MIG-GD2-383
 - feature changes MIG-GD2-383
 - fixed file records MIG-GD2-378
 - functional changes MIG-GD2-380
 - functional overview MIG-GD2-370
 - functional summary MIG-GD2-370
 - host system changes MIG-GD2-383
 - installation MIG-GD2-383, MIG-GD2-384
 - installation validation MIG-GD2-383
 - interfaces MIG-GD2-371
 - loading process MIG-GD2-382
 - macros MIG-GD2-378
 - migration scenarios MIG-GD2-383
 - offline messages MIG-GD2-381
 - online messages MIG-GD2-381
 - online system load MIG-GD2-382
 - operating environment requirements MIG-GD2-371
 - operational changes MIG-GD2-380
 - overview MIG-GD2-12, MIG-GD2-370
 - performance changes MIG-GD2-382
 - planning information MIG-GD2-371
 - prerequisite APARs MIG-GD2-370
 - publication changes MIG-GD2-382
 - segments MIG-GD2-380
 - SIP changes MIG-GD2-382
 - storage changes MIG-GD2-382
 - storage considerations MIG-GD2-382
 - system equates MIG-GD2-380
 - system errors MIG-GD2-381
 - system generation changes MIG-GD2-382
 - tuning changes MIG-GD2-382
 - user exits MIG-GD2-380
 - ZFILE cat command OPR-GDE-438
 - ZFILE cd command OPR-GDE-441

file system support *(continued)*

- ZFILE chmod command OPR-GDE-444
- ZFILE chown command OPR-GDE-448
- ZFILE command OPR-GDE-434
- ZFILE cp command OPR-GDE-451
- ZFILE dd command OPR-GDE-454
- ZFILE echo command OPR-GDE-457
- ZFILE export command OPR-GDE-460
- ZFILE find command OPR-GDE-463
- ZFILE grep command OPR-GDE-468
- ZFILE head command OPR-GDE-473
- ZFILE hex command OPR-GDE-476
- ZFILE kill command OPR-GDE-485
- ZFILE ln command OPR-GDE-488
- ZFILE ls command OPR-GDE-491
- ZFILE mkdir command OPR-GDE-497
- ZFILE mkfifo command OPR-GDE-500
- ZFILE mknod command OPR-GDE-503
- ZFILE mv command OPR-GDE-506
- ZFILE ps command OPR-GDE-509
- ZFILE pwd command OPR-GDE-516
- ZFILE rm command OPR-GDE-518
- ZFILE rmdir command OPR-GDE-521
- ZFILE sed command OPR-GDE-524
- ZFILE tail command OPR-GDE-535
- ZFILE tee command OPR-GDE-538
- ZFILE touch command OPR-GDE-540
- ZFILE tr command OPR-GDE-543
- ZFILE unset command OPR-GDE-546
- ZFILE xargs command OPR-GDE-548
- ZFINT command OPR-GDE-554

file system tools

- API changes MIG-GD2-816
- architecture MIG-GD2-806
- C/C++ language MIG-GD2-807
- CINFC tags MIG-GD2-812
- commands MIG-GD2-814
- CONKC tags MIG-GD2-812
- copy members MIG-GD2-812
- database changes MIG-GD2-816
- feature changes MIG-GD2-816
- fixed file records MIG-GD2-812
- functional changes MIG-GD2-814
- functional overview MIG-GD2-805
- host system changes MIG-GD2-816
- installation validation MIG-GD2-816
- interfaces MIG-GD2-806
- loading process MIG-GD2-815
- macros MIG-GD2-812
- migration scenarios MIG-GD2-816
- offline messages MIG-GD2-815
- online messages MIG-GD2-815
- online system load MIG-GD2-815
- operating environment requirements MIG-GD2-806
- operational changes MIG-GD2-814
- overview MIG-GD2-12, MIG-GD2-805
- performance changes MIG-GD2-815
- planning information MIG-GD2-806
- prerequisite APARs MIG-GD2-805
- publication changes MIG-GD2-816
- segments MIG-GD2-813

file system tools *(continued)*

- SIP changes MIG-GD2-815
- storage changes MIG-GD2-815
- storage considerations MIG-GD2-815
- system equates MIG-GD2-814
- system errors MIG-GD2-815
- system generation changes MIG-GD2-815
- tuning changes MIG-GD2-815
- user exits MIG-GD2-814

file system

- access permissions CON-STR-150
- file accessibility CON-STR-150
- file names used by the TFTP server APP-GDE-175
- file ownership CON-STR-150
- rules to determine file accessibility APP-GDE-171

File Transfer Protocol (FTP) server support

- API changes MIG-GD2-715
- architecture MIG-GD2-710
- C/C++ language MIG-GD2-711
- CINFC tags MIG-GD2-712
- commands MIG-GD2-713
- CONKC tags MIG-GD2-712
- copy members MIG-GD2-712
- database changes MIG-GD2-715
- feature changes MIG-GD2-715
- fixed file records MIG-GD2-712
- functional changes MIG-GD2-713
- functional overview MIG-GD2-710
- host system changes MIG-GD2-715
- installation validation MIG-GD2-715
- interfaces MIG-GD2-711
- loading process MIG-GD2-714
- macros MIG-GD2-712
- migration scenarios MIG-GD2-715
- offline messages MIG-GD2-714
- online messages MIG-GD2-714
- online system load MIG-GD2-714
- operating environment requirements MIG-GD2-710
- operational changes MIG-GD2-713
- overview MIG-GD2-13, MIG-GD2-710
- performance changes MIG-GD2-714
- planning information MIG-GD2-710
- prerequisite APARs MIG-GD2-710
- publication changes MIG-GD2-714
- segments MIG-GD2-713
- SIP changes MIG-GD2-714
- storage changes MIG-GD2-714
- storage considerations MIG-GD2-714
- system equates MIG-GD2-713
- system errors MIG-GD2-714
- system generation changes MIG-GD2-714
- tuning changes MIG-GD2-714
- user exits MIG-GD2-713

File Transfer Protocol (FTP) server

- adding entry to IDCFC CLAWGR-243
- description of CON-STR-189
- general discussion CLAWGR-243
- socket application CON-STR-189

file type macros GEN-MAC-8

file

- 3880 Storage Control Report for SDA mmmm, SDID nn SPM-PRM-51
- 3880 Storage Control Report: Subtotals for SDID nn SPM-PRM-50
- 3880 Storage Control Report: Totals SPM-PRM-49
- 3990 Storage Control Cache Summary Report SPM-PRM-58
- 3990 Storage Control Device Summary Report for Cache Subsystem nnnn SPM-PRM-59
- 3990 Storage Control Report for SDA mmmm, Cache Subsystem nnnn SPM-PRM-57
- 3990 Storage Control Report: Subtotals for Cache Subsystem nnnn SPM-PRM-53
- 3990 Storage Control Report: Totals SPM-PRM-52
- access report SPM-PRM-42
- alteration MIG-GD1-8
- changing access permissions for OPR-GDE-444
- changing time stamp of OPR-GDE-540
- character special
 - creating OPR-GDE-503
- collection/reduction SPM-PRM-83
- comparison plot SPM-PRM-48
- comparison report SPM-PRM-47
- concatenating OPR-GDE-438
- converting OPR-GDE-454
- copying OPR-GDE-451
- creating a link to OPR-GDE-488
- displaying content of OPR-GDE-476
- DP Record Anomaly Log SPM-PRM-61
- editing OPR-GDE-524
- finding OPR-GDE-463
- functions CLS-UGR-1405
- group ID (GID)
 - changing OPR-GDE-448
- library SPM-PRM-94
- listing names and attributes of OPR-GDE-491
- moving OPR-GDE-506
- offset CLS-UGR-696
- removing link to OPR-GDE-518
- renaming OPR-GDE-506
- restoration MIG-GD1-281
- searching for patterns OPR-GDE-468
- storage activity data collection SYS-MAC-24
- storage allocation macros GEN-MAC-6
- storage control reports SPM-PRM-48
- translating or deleting characters from OPR-GDE-543
- user ID (UID)
 - changing OPR-GDE-448
- writing from beginning of OPR-GDE-473
- writing from end of OPR-GDE-535
- writing to CLS-UGR-696, OPR-GDE-538
- ZFILE cat command OPR-GDE-438
- ZFILE chmod command OPR-GDE-444
- ZFILE chown command OPR-GDE-448
- ZFILE cp command OPR-GDE-451
- ZFILE dd command OPR-GDE-454
- ZFILE export command OPR-GDE-460
- ZFILE find command OPR-GDE-463
- ZFILE grep command OPR-GDE-468

file (continued)

- ZFILE head command OPR-GDE-473
- ZFILE hex command OPR-GDE-476
- ZFILE ln command OPR-GDE-488
- ZFILE ls command OPR-GDE-491
- ZFILE mknod command OPR-GDE-503
- ZFILE mv command OPR-GDE-506
- ZFILE rm command OPR-GDE-518
- ZFILE sed command OPR-GDE-524
- ZFILE tail command OPR-GDE-535
- ZFILE tee command OPR-GDE-538
- ZFILE touch command OPR-GDE-540
- ZFILE tr command OPR-GDE-543
- FILEC macro GEN-MAC-195
- files
 - auxiliary SYS-GEN-156
 - capture and restore SYS-GEN-155
 - changing mode CLS-UGR-123
 - data SYS-GEN-156
 - descriptor CLS-UGR-380, CLS-UGR-391
 - descriptor flags CLS-UGR-129
 - design SYS-GEN-57
 - E-type SYS-GEN-156
 - fully duplicated system SYS-GEN-62
 - general SYS-GEN-155
 - layout SYS-GEN-61
 - loaders SYS-GEN-155
 - locking CLS-UGR-130, CLS-UGR-132
 - loosely coupled record duplication SYS-GEN-60
 - module-to-module duplication SYS-GEN-62
 - nonduplicated system SYS-GEN-61
 - offset CLS-UGR-380, CLS-UGR-410
 - opening CLS-UGR-199
 - partial record duplication SYS-GEN-62
 - positioning CLS-UGR-148, CLS-UGR-226, CLS-UGR-228, CLS-UGR-234, CLS-UGR-431
 - PTVA PDV-PRM-14
 - record duplication SYS-GEN-60
 - renaming CLS-UGR-428
 - status flags CLS-UGR-129
 - storage, fixed SYS-GEN-63
 - storage, pool SYS-GEN-68
- filing a single record GEN-MAC-203
- filing keypoints GEN-MAC-266
- filing records in a commit scope APP-GDE-91
- FILKW macro APP-GDE-244, GEN-MAC-198
- fill category
 - setting a minimum level SYS-GEN-55
- FILNC macro GEN-MAC-200
- FILNC macro, TPFCS CON-STR-165
- FILNC macro
 - using in conditional expression SPM-18
- FILSC macro GEN-MAC-203
- FILUC macro GEN-MAC-205
- FILWC macro
 - using in conditional expression SPM-18
- financial service terminals (3606/3608) SNA-PRM-250
- find (read) a record CON-STR-89
- find a file record and wait CLS-UGR-189
- Find a File Record and Wait macro GEN-MAC-216

- find a file record and wait with extended options
CLS-UGR-191
- Find a File Record macro GEN-MAC-208
- find a file record macro (FINDC)
service routine CON-STR-87
- find a record CLS-UGR-174, CLS-UGR-178
- find a record with extended options CLS-UGR-176,
CLS-UGR-181
- Find a Single File Record macro GEN-MAC-214
- Find a Special Record macro SYS-MAC-249
- find an RCAT entry macro GEN-MAC-316
- find and file functions APP-GDE-151
- find and file functions
 - file_record_ext CLS-UGR-161
 - file_record CLS-UGR-158
 - filec_ext CLS-UGR-154
 - filec CLS-UGR-152
 - filnc_ext CLS-UGR-167
 - filnc CLS-UGR-165
 - filuc_ext CLS-UGR-172
 - filuc CLS-UGR-170
 - find_record_ext CLS-UGR-181
 - find_record CLS-UGR-178
 - findc_ext CLS-UGR-176
 - findc CLS-UGR-174
 - finhc_ext CLS-UGR-187
 - finhc CLS-UGR-185
 - finwc_ext CLS-UGR-191
 - finwc CLS-UGR-189
 - fiwhc_ext CLS-UGR-195
 - fiwhc CLS-UGR-193
 - rcunc CLS-UGR-408
 - unfrc_ext CLS-UGR-662
 - unfrc CLS-UGR-661
- find and hold a file record CLS-UGR-185
- find and hold a file record and wait CLS-UGR-193
- find and hold a file record and wait with extended
options CLS-UGR-195
- Find and Hold a File Record macro GEN-MAC-210
- find and hold a file record with extended options
CLS-UGR-187
- Find and Hold a File Record, and Wait macro
GEN-MAC-219
- find and hold macro (FINHC)
processing in a loosely coupled environment
CON-STR-144
relationship with record hold table CON-STR-109
- Find Entry in the Macro Information Tables macro
SYS-MAC-146
- find macro GEN-MAC-9
- find macro
data collection SYS-MAC-24
- Find macro
ID errors GEN-MAC-22
- Find SLST Entry macro SYS-MAC-386
- Find/File macro SYS-MAC-252
- find
 - a file record and wait CLS-UGR-189
 - a file record and wait with extended options
CLS-UGR-191
 - a record CLS-UGR-174, CLS-UGR-178
- find (*continued*)
 - a record with extended options CLS-UGR-176,
CLS-UGR-181
 - and hold a file record CLS-UGR-185
 - and hold a file record and wait CLS-UGR-193
 - and hold a file record and wait with extended options
CLS-UGR-195
 - and hold a file record with extended options
CLS-UGR-187
- FINDC macro GEN-MAC-208
- finding elements APP-GDE-108
- finding records in a commit scope APP-GDE-91
- FINHC macro GEN-MAC-210
- FINIS macro GEN-MAC-213
- Finish Program Assembly macro GEN-MAC-213
- finite state machine SNA-PRM-80
- FINSC macro GEN-MAC-214
- FINWC macro GEN-MAC-216
- firewall packet filtering
 - displaying or refreshing rules OPR-GDE-552
 - ZFILT command OPR-GDE-552
- first element in a collection APP-GDE-110
- first-in-first-out (FIFO)
 - control unit buffer recover MIG-GD1-186,
MIG-GD2-36
 - definition MIG-GD1-186, MIG-GD2-36
- FIWHC macro GEN-MAC-219
- FIWHC macro
 - using in conditional expression SPM-18
- fixed file APP-GDE-250, CON-STR-9
- fixed file address computation SYS-MAC-264
- fixed file record CON-STR-97
- fixed file record
 - #SALTB MIG-GD1-158
 - #WRES4 MIG-GD1-158
 - #WRESL MIG-GD1-158
 - #WRESS MIG-GD1-158
 - #XTCBR MIG-GD1-158
 - band number MIG-GD1-246
 - capture MIG-GD1-284
- fixed file records
 - buffer control area (BCA) core address
displaying OPR-GDE-1426
 - buffer core address
displaying OPR-GDE-1426
 - buffer type
displaying OPR-GDE-1426
 - changing OPR-GDE-81
 - displaying OPR-GDE-357
 - dump switches
displaying OPR-GDE-316
setting OPR-GDE-316
 - filing status
displaying OPR-GDE-1426
 - initializing OPR-GDE-611
 - loading from pilot tape OPR-GDE-1258
 - locating in VFA OPR-GDE-1426
 - record attributes
changing OPR-GDE-1244
displaying OPR-GDE-1240
ZRTDM DISPLAY command OPR-GDE-1240

- fixed file records (*continued*)
 - record attributes (*continued*)
 - ZRTDM MODIFY command OPR-GDE-1244
 - RIAT pool overrides
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - ZRTDM DISPLAY command OPR-GDE-1239
 - ZRTDM MODIFY command OPR-GDE-1242
 - unsolicited message directory (CODR)
 - initializing OPR-GDE-672
 - ZAREC command OPR-GDE-81
 - ZDECD command OPR-GDE-316
 - ZDREC command OPR-GDE-357
 - ZIFIL command OPR-GDE-611
 - ZSLDR command OPR-GDE-1258
 - ZVFAC LOCATE command OPR-GDE-1426
- fixed file
 - distribution technique SYS-GEN-58
 - storage SYS-GEN-63
 - use example APP-GDE-255
- fixed head disk storage allocation SYS-GEN-36
- fixed record CON-STR-99, SYS-GEN-290
- fixed record reference CON-STR-106
- fixed record type CON-STR-99
- fixed record type base address CON-STR-115
- fixed record type conversion GEN-MAC-340
- fixed record type name CON-STR-106
- fixed record
 - area SYS-GEN-59
 - fixed record type base address SYS-GEN-65
 - initialization of a fixed record CON-STR-148
 - initializing record ID CON-STR-104
 - longevity CON-STR-103
 - ordinal number CON-STR-99
 - record ID CON-STR-104
 - record type CON-STR-99
 - reference to CON-STR-106
 - use of CON-STR-100
- fixed storage APP-GDE-236, CON-STR-73, CON-STR-74
- fixed-file record CON-STR-89
- flags
 - EOF CLS-UGR-141
 - file descriptor CLS-UGR-129
- FLFAC macro SYS-MAC-241
- FLIPC macro GEN-MAC-222
- FLSPC macro SYS-MAC-243
- FLUSH SNA-PRM-74
- Flush a Record from VFA Buffers macro
 - SYS-MAC-241, SYS-MAC-246
- flush the cache CLS-UGR-198
- flush the contents of the cache CLS-UGR-198
- flushing pseudo directory records from VFA
 - OPR-GDE-1166
- flushing pseudo directory records from VFA
 - ZRECP FLUSH command OPR-GDE-1166
- FLVFC SYS-MAC-246
- FM header data
 - displaying OPR-GDE-974
 - ZNKEY command OPR-GDE-974
- FMH7 SNA-PRM-100
- FMHDR parameter
 - SNAKEY macro ACF-GDE-14
- FMMR ACF-GDE-35
- FMMR-FMMR sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - ZNETW ACT command OPR-GDE-964
 - ZNETW INACT command OPR-GDE-969
- FMTR, (real-time disk formatter) DBS-REF-117
- FNSPC macro APP-GDE-262, SYS-MAC-249
- form control buffer
 - CUAG program OPR-GDE-100
 - defining OPR-GDE-100
 - loading OPR-GDE-100
 - ZAURS FCBL command OPR-GDE-100
- format 1 (FMT1) CCW
 - overview MIG-GD1-19
- format and print data
 - to a stream CLS-UGR-678
 - to buffer CLS-UGR-678
 - to standard output stream CLS-UGR-678
- format for command PSM-GDE-3
- format for executive macro instructions GEN-MAC-2
- format for output messages PSM-GDE-5
- format indicator (FTI)
 - FARF4 structure MIG-GD1-243
 - FARF5 structure MIG-GD1-243
- formats, file address DBS-REF-3, DBS-REF-22
- formatted I/O CLS-UGR-201
- formatting a disk module CON-STR-149
- formatting and dumping C function trace entries
 - C function trace table PDV-PRM-137
 - overview PDV-PRM-137
 - user area PDV-PRM-137
- forward ANR field SNA-PRM-138
- FR allocation SYS-GEN-37
- frame usage report SPM-PRM-35
- frames
 - minimum percentage required
 - changing OPR-GDE-976
 - displaying OPR-GDE-976
 - overview MIG-GD1-12
 - set for CPU loop shutdown levels MIG-GD1-216
 - system shutdown value MIG-GD1-82
 - use of MSP-PRM-21
 - working storage relationship MIG-GD1-214
 - ZNKEY command OPR-GDE-976
- free core storage block if held CLS-UGR-73
- FREEC macro GEN-MAC-224
- frequency distribution
 - report SPM-PRM-38
- frequency of capture DBS-REF-65
- frequent flyer database and transaction logging
 - AR-USG-6
- fresh load GIM-26
- fresh load function
 - change SNA network definitions MIG-GD1-254
 - define SNA resources MIG-GD1-211
 - description MIG-GD1-211
 - dynamic LU support MIG-GD1-254
 - fresh loads MIG-GD1-254

- fresh load function (*continued*)
 - how to use MIG-GD1-211
 - SNA data loader MIG-GD1-211
 - SNA fresh function MIG-GD1-254
- front-end processor GIM-3
- FSTIC macro GEN-MAC-226
- FTP LOG file CLAWGR-243
- FTP server APP-GDE-173
- FTP server
 - general discussion APP-GDE-173
- FTPI (Fast Transaction Processing Interface)
 - SNA-PRM-2, SNA-PRM-32
- FTPI (Fast Transaction Processing Interface)
 - command content SNA-PRM-34
 - message blocking format SNA-PRM-33
 - NPSI considerations for SNA-PRM-37
 - traces SNA-PRM-42
 - VTAM considerations for SNA-PRM-37
- FTSTC macro SYS-MAC-252
- full load
 - perform to start a TPF 4.1 system MIG-GD1-216
- full restore CON-STR-145
- full-duplex socket support
 - chained CLAWGR-124
 - socket thread control blocks CLAWGR-124
- function CLS-UGR-523
- function format
 - file reference coding examples APP-GDE-262
- function management (FM) header APP-GDE-50
- Function Management Header (FMH) SNA-PRM-22
- Function Management Header (FMH)
 - defining contents of SNA-PRM-26
- function management message router (FMMR)
 - CON-STR-182, CON-STR-187, SNA-PRM-16
- function management message router (FMMR)
 - routing control parameter list (RCPL) CON-STR-182
- function migration GEN-MAC-399
- function switch
 - add your own MIG-GD1-223
 - definition MIG-GD1-223
 - naming conventions MIG-GD1-223
 - restrictions MIG-GD1-223
- function switches DBS-REF-30
- function switches
 - adding INS-PRM-406
 - adding your own INS-PRM-406
 - definition of INS-PRM-406
- function trace for C SYS-MAC-221
- function trace
 - for TPF MQSeries PDV-PRM-153
- function types APP-GDE-105
- Functional Areas
 - Area 03B – Recoup
 - BBEWP SYS-MAC-104
 - BBWRT SYS-MAC-108
 - GROUP SYS-MAC-264
 - INDEX SYS-MAC-306
 - Area 21A – User Exits
 - UXITC SYS-MAC-506
- functional change
 - APAR summary MIG-GD2-1269

- functional change (*continued*)
 - PUT summary MIG-GD2-1269
- functional flow of data event control blocks (DECBs)
 - APP-GDE-32
- functional management message router (FMMR)
 - SYS-GEN-143
- functional management message router (FMMR)
 - ACF support SYS-GEN-143
 - application attributes SYS-GEN-143
 - HPO support SYS-GEN-144
 - implementation guidelines SYS-GEN-144
 - line protocols SYS-GEN-143
- functions, collection SPM-PRM-1
- functions
 - calling other APP-GDE-60
 - calling other functions APP-GDE-156
 - changing from static to extern APP-GDE-138
 - coding main APP-GDE-133
 - ECB creation APP-GDE-153
 - external APP-GDE-138
 - find and file APP-GDE-151
 - library
 - coding in assembler APP-GDE-219
 - coding in C APP-GDE-219
 - output APP-GDE-155
 - path name rules CLS-UGR-1408
 - secondary library routines for TARGET(TPF)
 - APP-GDE-70
 - tape management APP-GDE-152
 - TPF file system CLS-UGR-1405

G

- G11 universal character set
 - CUAI program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS LUCS command OPR-GDE-102
- GAT (global attribute table) INS-PRM-244
- GAT (Global Attribute Table) INS-PRM-248
- GATE (General Access to X.25 Transport Extension)
 - SNA-PRM-2, SNA-PRM-29, SNA-PRM-32,
 - SNA-PRM-317, SNA-PRM-322
- gateway aliasing
 - definition MIG-GD1-253
- gateway resources SNA-PRM-233
- gateways CLAWGR-68
- gateways, defining CLAWGR-58
- GCFBC macro SYS-MAC-254
- GCFLC macro GEN-MAC-228
- GCFSC macro GEN-MAC-230
- GCLAC macro SYS-MAC-255
- GCOMC macro
 - See \$GCOMC macro
- GDSKC macro SYS-MAC-258
- GDSNC DBS-REF-15
- GDSNC and GDSRC macros GEN-MAC-10
- GDSNC macro GEN-MAC-232
- GDSRC DBS-REF-15
- GDSRC macro GEN-MAC-235
- GEND record PDV-PRM-25

- GEND record
 - description of PDV-PRM-24
- General Access to X.25 Transport Extension (GATE)
 - SNA-PRM-2, SNA-PRM-29, SNA-PRM-32, SNA-PRM-317, SNA-PRM-322
- general data set (GDS) CON-STR-9, CON-STR-143
- General Data Set (GDS) Control macro SYS-MAC-258
- general data set (GDS)
 - auxiliary loader (TLDR) MIG-GD1-266
 - content MIG-GD1-251
 - creation CON-STR-143
 - file data chain transfer macro (FDCTC) CON-STR-143
 - FILE macro MIG-GD1-313
 - FIND macro MIG-GD1-313
 - load program data MIG-GD1-83
 - network definitions MIG-GD1-251
 - offline ACF/SNA table generation (OSTG) MIG-GD1-210
 - overview MIG-GD1-10, MIG-GD1-18
 - virtual reader MIG-GD1-225
 - write network definitions to MIG-GD1-210
- general data set addresses DBS-REF-11
- general data set commands DBS-REF-14
- general data set functions APP-GDE-273
- general data set functions
 - gdsnc CLS-UGR-241
- general data set macros GEN-MAC-10
- general data set
 - command SYS-GEN-77
 - dismounting OPR-GDE-368
 - displaying OPR-GDE-366
 - initializing OPR-GDE-370
 - mounting OPR-GDE-371
 - removing a data definition name for OPR-GDE-373
 - volume label SYS-GEN-77
 - volume table of contents (VTOC)
 - displaying OPR-GDE-374
 - ZDSMG command OPR-GDE-370
 - ZDSMG DISPLAY OPR-GDE-366
 - ZDSMG DM command OPR-GDE-368
 - ZDSMG MT command OPR-GDE-371
 - ZDSMG RELEASE command OPR-GDE-373
 - ZDSMG VTOC command OPR-GDE-374
- general data sets APP-GDE-152, APP-GDE-273
- general data sets
 - introduction DBS-REF-13
 - premount DBS-REF-14
 - record processing DBS-REF-14
- general file APP-GDE-273, CON-STR-9
- general file addresses DBS-REF-11
- general file contents INS-PRM-321
- general file get file address CLS-UGR-404
- General File Get File Address macro GEN-MAC-311
- general file keypoint
 - reassemble MIG-GD1-203, MIG-GD1-227
- general file load deck
 - creating INS-PRM-322
- general file loader INS-PRM-322, MSP-PRM-5
- general file loader (ALDR)
 - #PVRx record types MIG-GD1-207
- general file loader (ALDR) (*continued*)
 - assembly data MIG-GD1-17
 - changes MIG-GD1-212
 - format MIG-GD1-212
 - multiple TPF images MIG-GD1-266
 - overview MIG-GD1-12, MIG-GD1-17
 - program versions MIG-GD1-17
 - reformat MIG-GD1-212
- general file support functions
 - raisa CLS-UGR-404
- general file
 - creation CON-STR-143
 - dismounting OPR-GDE-428
 - formatting INS-PRM-322
 - GENFIL macro example SYS-GEN-79
 - initializing INS-PRM-322
 - IPLing INS-PRM-339
 - label
 - changing OPR-GDE-65
 - displaying OPR-GDE-328
 - ZAGFL command OPR-GDE-65
 - loader online segment residency SYS-GEN-39
 - mounting OPR-GDE-558
 - predefined SYS-GEN-78
 - ZAGFL command OPR-GDE-65
 - ZDGFL command OPR-GDE-328
 - ZFDNT command OPR-GDE-428
 - ZFMNT command OPR-GDE-558
- general files DBS-REF-13
- general files
 - introduction DBS-REF-17
 - programming notes DBS-REF-18
- general postinterrupt processing (UCCGPI) INS-PRM-55
- general real-time code
 - overview MIG-GD1-12
- general reduction report
 - changes MIG-GD1-288
 - data reduction MIG-GD1-288
- general rules SPM-6
- general tape APP-GDE-268, CON-STR-91
- general tape assignment GEN-MAC-385
- general tape backspace GEN-MAC-387
- General Tape Data (GDS)Transfer macro SYS-MAC-481
- General Tape Data Chain Transfer macro SYS-MAC-478
- general tape open GEN-MAC-406
- general tape operations GEN-MAC-17
- general tape read GEN-MAC-484
- general tape record write GEN-MAC-492
- general tape reserve GEN-MAC-488
- general tape rewind GEN-MAC-486
- general tape
 - tape_cnt1 CLS-UGR-535
 - assign to ECB CLS-UGR-541
 - backspace and wait CLS-UGR-542
 - close CLS-UGR-534, CLS-UGR-544
 - functions APP-GDE-271
 - open CLS-UGR-537, CLS-UGR-556
 - operations APP-GDE-268

general tape *(continued)*
 read CLS-UGR-641
 read record from CLS-UGR-538
 reserve CLS-UGR-644
 rewind and wait CLS-UGR-643
 synchronize CLS-UGR-645
 write a record CLS-UGR-646
 write a record to CLS-UGR-540
 general use macros GEN-MAC-xv
 generate a data list CLS-UGR-599
 generate a data list macro GEN-MAC-237
 generate a token CLS-UGR-235
 generate an ACB GEN-MAC-537
 generate an RPL GEN-MAC-537
 Generate Control Program (CP) DSECT macro
 SYS-MAC-168
 generate file address CLS-UGR-120
 Generate IBM SVC and Fast-Link Tables macro
 SYS-MAC-282
 Generate Message Table for WTOPC macro
 GEN-MAC-242
 Generate Selective Memory Dump Table Entry macro
 SYS-MAC-293
 Generate the User SVC Tables macro SYS-MAC-504
 generating the side information table SNA-PRM-83
 generating the side information table
 creating the input file SNA-PRM-85
 creating the input file
 ADD statement SNA-PRM-85, SNA-PRM-87
 comments SNA-PRM-85, SNA-PRM-86
 DESCR statement SNA-PRM-85, SNA-PRM-87
 general statement syntax SNA-PRM-86
 input file example SNA-PRM-89
 input statements and ZNSID, comparison
 SNA-PRM-91
 LOAD statement SNA-PRM-85, SNA-PRM-87
 REMOVE statement SNA-PRM-85, SNA-PRM-89
 loading the table to TPF SNA-PRM-96
 output from CHQI SNA-PRM-93
 output from CHQI
 output listing, description of SNA-PRM-93
 output listing, example of SNA-PRM-94
 side information data set SNA-PRM-93
 running CHQI SNA-PRM-92
 running CHQI
 sample JCL SNA-PRM-93
 generic name support
 changes MIG-GD1-252
 use in session requests MIG-GD1-252
 GENFIL macro SYS-GEN-245
 GENLC macro GEN-MAC-237
 GENMSG macro GEN-MAC-242, GEN-MAC-559
 GENSIP macro INS-PRM-406, SYS-GEN-247
 GENTYPE parameter
 EXEC PARM field ACF-GDE-30
 Get a Control Record macro SYS-MAC-38
 get a conversation control block entry macro
 GEN-MAC-269
 get a list of prepared transaction branches
 CLS-UGR-716
 get a record GEN-MAC-544

 Get a Specified CLAW Block Type macro
 SYS-MAC-255
 Get a System Work Block (SWB) Address macro
 SYS-MAC-278
 Get Address of Next Block Queued on a Dispatch List
 macro SYS-MAC-363
 Get an Auto Storage Block macro GEN-MAC-28
 Get Available I/O Control Block Address macro
 SYS-MAC-42
 get common storage block SYS-MAC-33
 Get Contiguous EVM Stack Storage macro
 SYS-MAC-53
 Get Contiguous EVM Storage macro SYS-MAC-44
 Get Core Block and Large File Address macro
 GEN-MAC-228
 Get Count of Blocks Queued on a Dispatch List macro
 SYS-MAC-361
 Get Coupling Facility Work Block Address macro
 SYS-MAC-254
 get data set entry CLS-UGR-241
 GET environment variables GEN-MAC-61
 Get File Pool Address and Storage Block macro
 GEN-MAC-248
 get file pool address
 See get fc function
 get file storage CON-STR-128
 get file storage (GFS)
 displaying parameters OPR-GDE-594
 setting options OPR-GDE-599
 ZGFSP DSP command OPR-GDE-594
 ZGFSP OPT command OPR-GDE-599
 get file storage control GEN-MAC-260
 get file storage macro CON-STR-105
 get file storage services CON-STR-90
 get general data set entry macro GEN-MAC-232
 get general data set record CLS-UGR-244
 Get General Data Set Record macro GEN-MAC-235
 Get Global Attribute Table Entry macro SYS-MAC-302
 get hash address for resource name SYS-MAC-212
 get host information by address
 socket API function, gethostbyaddr CLAWGR-160
 get host information by name
 socket API function, gethostbyname CLAWGR-162
 get input string CLS-UGR-273
 get large file storage address macro GEN-MAC-252
 Get Load Module Writable Static Data Length macro
 SYS-MAC-512
 Get Maximum Number of Storage Blocks macro
 SYS-MAC-345
 get message from an open queue CLS-UGR-343
 get network qualified name (NQN) GEN-MAC-271
 Get next TPF Trace Table Entry macro SYS-MAC-367
 get pointer to run-time error CLS-UGR-517
 get program and lock in core CLS-UGR-265
 Get Program and Lock in Storage macro
 GEN-MAC-254
 Get Program Prolog Area (PPA) Functional Name
 Information macro SYS-MAC-261
 get record code check (RCC) reference table
 SYS-MAC-275
 get resource definition bytes GEN-MAC-271

get resource identifier (RID) GEN-MAC-271
 get server port by name
 socket API function, getservbyname CLAWGR-170
 socket API function, getservbyport CLAWGR-172
 get session control block identifier (SCBID)
 GEN-MAC-271
 Get Small Core Block and File Address macro
 GEN-MAC-230
 Get Small File Storage Address macro GEN-MAC-258
 get status information CLS-UGR-230
 get storage from the system heap CLS-UGR-293
 get symbolic file address information CLS-UGR-511,
 CLS-UGR-586
 Get System Heap Storage macro SYS-MAC-50,
 SYS-MAC-279
 Get System Work Block Address macro SYS-MAC-48
 get the effective group ID CLS-UGR-254
 get the effective user ID CLS-UGR-256
 get the file descriptor CLS-UGR-156
 get the real group ID CLS-UGR-260
 get the real user ID CLS-UGR-276
 get the status of CLAW adapter CLAWGR-400
 get the status of CLAW logical links CLAWGR-400
 get the unique token for the current transaction
 CLS-UGR-636, SYS-MAC-492
 Get Working Storage Block macro GEN-MAC-244
 get working storage block
 See getcc function
 GET_ATTRIBUTES SNA-PRM-74
 GET_TYPE SNA-PRM-75
 get
 value of environmental variables CLS-UGR-255
 GETCC block type verification GEN-MAC-246
 GETCC Block Type Verification macro SYS-MAC-331
 GETCC macro APP-GDE-23, GEN-MAC-244,
 MSP-PRM-22
 GETCC macro
 access private storage MIG-GD1-307
 GETFC macro APP-GDE-255, GEN-MAC-248
 GETLC macro GEN-MAC-252
 GETPC macro GEN-MAC-254
 GETPC macro
 get file addresses for
 data records MIG-GD1-306
 program records MIG-GD1-306
 lock programs MIG-GD1-306
 GETSC macro GEN-MAC-258
 getsize program SYS-GEN-330
 getting storage GEN-MAC-57
 getting
 address of a method CLS-UGR-1236
 an index CLS-UGR-1307
 an index key CLS-UGR-1310
 attributes
 for a collection CLS-UGR-1266
 for a data store CLS-UGR-1278
 of a class CLS-UGR-1256
 of a record CLS-UGR-1305
 of a user CLS-UGR-1312
 of key paths CLS-UGR-1281
 browser dictionary PID CLS-UGR-1254
 getting (*continued*)
 class name of the collection CLS-UGR-1268
 current data definition attribute values
 CLS-UGR-1274
 current directory for RRN CLS-UGR-1276
 current key CLS-UGR-1141
 current key in the buffer CLS-UGR-1143
 dictionary PID of a data store CLS-UGR-1212
 file information CLS-UGR-513
 file position, fgetpos CLS-UGR-148
 information for a class CLS-UGR-1260
 inheritance tree for a class CLS-UGR-1264
 list of defined users CLS-UGR-1289
 method names for a class CLS-UGR-1293
 part names for a collection CLS-UGR-1270
 path name of the working directory CLS-UGR-252
 PID inventory entry CLS-UGR-1301
 PID of PID inventory CLS-UGR-1303
 read-only attribute of the collection CLS-UGR-1076
 status of a file CLS-UGR-317
 status of symbolic link CLS-UGR-317
 system work block address SYS-MAC-48
 TPF dictionary's PID CLS-UGR-1214
 type value of the collection CLS-UGR-1053
 user class ID of the collection CLS-UGR-1346
 GFS DBS-REF-27
 GFS control initiate GEN-MAC-260
 GFS Parameter Program switch SYS-MAC-373
 GFSCC macro GEN-MAC-260
 GLOBALA keypointing GEN-MAC-266
 GLOBP INS-PRM-261
 GLOBY keypointing GEN-MAC-266
 GLMOD macro APP-GDE-244, GEN-MAC-262
 global area APP-GDE-18, APP-GDE-240,
 CON-STR-42, CON-STR-132, INS-PRM-243,
 MSP-PRM-10, SYS-GEN-153
 global area
 conventions APP-GDE-18
 define MIG-GD1-203
 description CON-STR-138
 functions APP-GDE-246
 I-stream shared MIG-GD1-209
 I-stream unique MIG-GD1-209
 macros APP-GDE-243
 multiple database function (MDBF) CON-STR-132
 size MIG-GD1-209
 symbolic names in APP-GDE-240, APP-GDE-246
 synchronization APP-GDE-243
 global areas
 application use of INS-PRM-255
 area 1 INS-PRM-245
 area 2 INS-PRM-247
 area 3 INS-PRM-247
 area 4 INS-PRM-247
 layout INS-PRM-245
 locating in a dump INS-PRM-307
 MDBF layout INS-PRM-252
 number INS-PRM-304
 structure INS-PRM-244
 global attribute indicator
 how to test MIG-GD1-311

global attribute table (GAT) INS-PRM-244
Global Attribute Table (GAT) INS-PRM-248
global block DSECTs
 considerations when changing INS-PRM-259
 in global area 1 INS-PRM-259
 list and description INS-PRM-249
 subsystem design considerations INS-PRM-252
global directory CON-STR-140
global directory
 definition INS-PRM-243
 GLOBA
 as a part of global area 1 INS-PRM-245,
 INS-PRM-258, INS-PRM-259
 called by GLOBZ INS-PRM-256
 GLOBY
 as a part of global area 3 INS-PRM-247,
 INS-PRM-258, INS-PRM-260
 called by GLOBZ INS-PRM-256
 I-stream shared globals MIG-GD1-209
 I-stream unique globals MIG-GD1-209
global environment lists INS-PRM-149
global field CON-STR-140
global field definition GEN-MAC-264
global fields
 definition of INS-PRM-243
 in global area 1 INS-PRM-259
 in global area 3 INS-PRM-260
 SSU common or unique INS-PRM-259
global functions
 glob_keypoint CLS-UGR-279
 glob_lock CLS-UGR-280
 glob_modify CLS-UGR-282
 glob_sync CLS-UGR-284
 glob_unlock CLS-UGR-286
 glob_update CLS-UGR-288
 glob CLS-UGR-277
 global CLS-UGR-290
global load function
 description MIG-GD1-216
GLOBAL macro SYS-GEN-255
global macros
 FILKW
 description INS-PRM-257
 example INS-PRM-257
 updating global fields and records INS-PRM-258,
 INS-PRM-317, INS-PRM-318
 GLOBA INS-PRM-248
 GLOBY INS-PRM-248
 GLMOD INS-PRM-258
 GLMOD
 description INS-PRM-256
 updating global fields and records INS-PRM-258,
 INS-PRM-317, INS-PRM-318
 GLOBAL SYS-GEN-40
 GLOBZ
 addressing global area 1 INS-PRM-259
 addressing global area 3 INS-PRM-260
 addressing global areas 1 and 3 INS-PRM-248
 description INS-PRM-255
 example INS-PRM-250, INS-PRM-257
global macros (*continued*)
 GLOBZ (*continued*)
 updating for GLOBA or GLOBY changes
 INS-PRM-258
 using to address global fields INS-PRM-250
 GLSYNC SYS-GEN-40
 KEYRC INS-PRM-258
 SYNCC INS-PRM-307, INS-PRM-317
 SYNCC
 description INS-PRM-258
 updating global fields and records INS-PRM-317,
 INS-PRM-318
global protect key change GEN-MAC-262
global record CON-STR-132, INS-PRM-247,
 INS-PRM-258
global record
 multiple database function (MDBF) CON-STR-132
 on a module CON-STR-138
global storage allocator record (GOA) INS-PRM-244,
 INS-PRM-261
global support utility, GNTAGH CLS-UGR-1437
global synchronization CON-STR-140, INS-PRM-255,
 INS-PRM-306
global tag
 format CLS-UGR-1441
global tagnames, C language
 creating on MVS CLS-UGR-1439
 creating on VM CLS-UGR-1438
 format CLS-UGR-1441
global terminology INS-PRM-243
global transaction CLS-UGR-647
global transaction
 tx_begin function CLS-UGR-647
 tx_commit function CLS-UGR-649
 tx_resume_tpf function CLS-UGR-652
 tx_suspend_tpf function CLS-UGR-655
 begin CLS-UGR-647, GEN-MAC-494
 commit CLS-UGR-649, GEN-MAC-496
 resume CLS-UGR-652, GEN-MAC-500
 roll back GEN-MAC-498
 rollback CLS-UGR-654
 suspend CLS-UGR-655, GEN-MAC-502
 TXBGC macro GEN-MAC-494
 TXCMC macro GEN-MAC-496
 TXRBC macro GEN-MAC-498
 TXRSC macro GEN-MAC-500
 TXSPC macro GEN-MAC-502
global variable symbols
 cross-referencing to PDS members INS-PRM-409
 finding in a PDS INS-PRM-409
Global variables for CSECT statements PSM-GDE-27
global
 application SYS-GEN-40
 area SYS-GEN-40
GLOBAL1 definition GEN-MAC-264
GLOBAL3 definition GEN-MAC-264
globals GEN-MAC-372
Globals GEN-MAC-198
globals
 16 MB
 overview MIG-GD1-9

globals (*continued*)

- 16 MB (*continued*)
 - primary global area MIG-GD1-209
- addressing and modifying APP-GDE-155
- allocate MIG-GD1-209
- allocation MIG-GD1-203
- converting assembler to C CLS-UGR-1437
- create a pilot tape MIG-GD1-203
- data integrity CON-STR-140
- defining addressability
 - See PARM
- description CON-STR-139
- description of APP-GDE-73
- directory slots INS-PRM-248
- extended INS-PRM-304
- extended globals CON-STR-140
- global directory CON-STR-140
- global field CON-STR-140
- I-stream shared MIG-GD1-203
- I-stream unique/shared records INS-PRM-243
- layout
 - extended global area MIG-GD1-209
- loading INS-PRM-261, INS-PRM-302
- MDBF considerations CON-STR-141
- modify
 - I-stream unique MIG-GD1-311
 - pilot tape MIG-GD1-203
- multiprocessing considerations CON-STR-142
- programming considerations INS-PRM-258
- record concatenation INS-PRM-305
- SSU unique/common INS-PRM-243
- synchronize globals macro (SYNCC) CON-STR-140
- TPF
 - converting for C APP-GDE-301
 - customizing APP-GDE-301
 - uses CON-STR-139

GLOBZ macro APP-GDE-18, APP-GDE-242, APP-GDE-243, GEN-MAC-264

GLOUC macro GEN-MAC-198, GEN-MAC-266

GLSYNC macro SYS-GEN-258

GNAMC macro SYS-MAC-261

GNTAGH user's guide CLS-UGR-1437

GOA (global storage allocator record) INS-PRM-244, INS-PRM-261

GOA list entry

- attribute byte INS-PRM-304
- directory slot number INS-PRM-305
- global area number INS-PRM-304
- number of bytes to strip INS-PRM-304
- number of doublewords INS-PRM-304
- ordinal number INS-PRM-305

GOTO macro

- description of SPM-105
- example of SPM-105

greater than 4KB program support GIM-25

Greenwich Mean Time (GMT) SYS-GEN-162

Greenwich Mean Time (GMT)

- TOD clock setting MIG-GD2-10

gross summary error indicator APP-GDE-38

group ID CLS-UGR-35, CON-STR-150

group ID

- chown CLS-UGR-35
- lstat CLS-UGR-317
- stat CLS-UGR-513

GROUP macro SYS-MAC-264

group record PDV-PRM-31

growth enablement

- 16-MB constraint relief GIM-23
- working storage GIM-23

GRP15 macro group identifier PDV-PRM-9

GRRTC macro SYS-MAC-275

GSTAR (STC generation start) instruction

- APP-GDE-286

GSTAR record

- blank PDV-PRM-25
- description of PDV-PRM-24
- overview PDV-PRM-24
- positioning PDV-PRM-25
- record type PDV-PRM-25

GSVAC macro MSP-PRM-18, SYS-MAC-276

GSWBC macro SYS-MAC-278

GSYSC macro SYS-MAC-279

GTSZ program SYS-GEN-330

guidelines SPM-6

H

H-level assembler SNA-PRM-69

H11 universal character set

- CUAI program OPR-GDE-103
- defining OPR-GDE-103
- loading OPR-GDE-102
- ZAURS LUCS command OPR-GDE-102

half-session to presentation services record (HPR)

- SNA-PRM-69

half-session, TPF/APPC SNA-PRM-59

halfword directory ordinal

- new pool support MIG-GD2-89
- PXP MIG-GD2-89

halfword field

- new pool support MIG-GD2-90
- PXP MIG-GD2-90

Halt an I/O Operation macro SYS-MAC-281

hard errors MSP-PRM-39

hard IPL SYS-GEN-20

hard link OPR-GDE-488

hard link

- comparison with symbolic link CON-STR-156
- what is it? CON-STR-154

hardening APP-GDE-89

HARDREC parameter

- SNAKEY macro ACF-GDE-15

hardware GIM-16

Hardware Error Recovery SNA-PRM-277

hardware facilities

- branch trace GIM-26
- changes MIG-GD1-277
- dynamic address translation (DAT) GIM-23
- dynamic address translation (DAT) facility
 - MIG-GD1-277
- entry protection MIG-GD1-277
- low address protection GIM-23, MIG-GD1-277

- hardware facilities *(continued)*
 - program event recording (PER) GIM-26
 - program event recording (PER) trace facility MIG-GD1-293
 - program isolation MIG-GD1-277
 - register and S/370 branch trace facility MIG-GD1-293
- hardware IPL MSP-PRM-1
- hardware IPL considerations
 - virtual route resynchronization SNA-PRM-231
- hardware requirement
 - consoles MIG-GD1-189, MIG-GD2-39
 - control units MIG-GD1-188, MIG-GD2-38
 - display devices MIG-GD1-189, MIG-GD2-39
 - interconnection devices MIG-GD1-187, MIG-GD2-37
 - prerequisites for the TPF 4.1 system MIG-GD1-185, MIG-GD2-35
 - tape libraries MIG-GD1-186, MIG-GD2-36
 - tape units MIG-GD1-186, MIG-GD2-36
 - terminals MIG-GD1-189, MIG-GD2-39
 - unit record devices MIG-GD1-187, MIG-GD2-37
- hardware requirements SYS-GEN-173
- hardware storage arbitration CON-STR-29
- hardware table record
 - initializing OPR-GDE-802
 - ZMPIF HDW command OPR-GDE-802
- hardware
 - requirements GIM-32
- Hash Resource Name macro SYS-MAC-212
- HASHC macro GEN-MAC-268
- HCT
 - definition of AR-USG-111
- head of chain, returning file addresses CLS-UGR-1325
- header APP-GDE-264
- header files
 - contents of APP-GDE-144
 - creating APP-GDE-144
 - description of APP-GDE-71
 - nesting in, use of APP-GDE-148
 - TPF, list of APP-GDE-143
 - what goes into APP-GDE-144
- header label routines INS-PRM-103
- header length (HL) field in FMH SNA-PRM-22
- header, tape block DBS-REF-95
- header
 - object DBS-REF-166
 - record header, 4-byte DBS-REF-167
 - record header, 8-byte DBS-REF-168
- headers
 - c\$am0sg.h header APP-GDE-43, APP-GDE-51
 - c\$eb0eb.h header APP-GDE-25
 - c\$g1obz.h header APP-GDE-246
 - c\$mi0mi.h header APP-GDE-43
 - c\$rc0p1.h header APP-GDE-23, APP-GDE-39, APP-GDE-52
 - tpfapi.h header APP-GDE-238
 - tpfeq.h header APP-GDE-25
- heap area usage report SPM-PRM-35
- heap expansion failure GEN-MAC-315
- heap private area MSP-PRM-22
- heap storage AR-USG-14, CON-STR-75, GEN-MAC-57, GEN-MAC-224
- heap storage dump APP-GDE-299
- heap storage management values
 - changing OPR-GDE-231
 - ZCTKA ALTER command OPR-GDE-231
- heap storage
 - constraint relief MIG-GD1-13
 - definition MIG-GD1-13
 - enhancements MIG-GD2-13
 - get MIG-GD1-307
 - getting SYS-MAC-50, SYS-MAC-279
 - how to manage MIG-GD1-307
 - MALOC CON-STR-75
 - overview MIG-GD1-13, MIG-GD2-13
 - release MIG-GD1-307
 - releasing SYS-MAC-81, SYS-MAC-413
 - reserving GEN-MAC-57
 - stack CON-STR-75
- help messages CLS-UGR-603
- hierarchic relationship SNA-PRM-3
- high mapped memory
 - macro services MIG-GD1-236
- high memory
 - application program use MIG-GD1-209
 - global residency MIG-GD1-209
- high performance functional management message router (FMMR)
 - ZNKEY command OPR-GDE-974
- High Performance Option (HPO) APP-GDE-6, APP-GDE-243, SYS-GEN-9
- High Performance Option (HPO) feature CON-STR-98
- High Performance Option (HPO) feature
 - overview MIG-GD1-7
- High Performance Option
 - See also* HPO
 - controlling loosely coupled processors MSP-PRM-33
 - IPL MSP-PRM-3
 - processor resource ownership facility MSP-PRM-35
 - processor status management services MSP-PRM-33
 - processor unique resources MSP-PRM-34
 - restart and state change MSP-PRM-6
 - shared resources MSP-PRM-34
 - switchable resources MSP-PRM-34
- high speed transmission for LMT SYS-MAC-446
- high-performance routing (HPR) support SYS-GEN-112
- high-performance routing (HPR) support
 - alive timer SNA-PRM-145
 - alive timer
 - changing OPR-GDE-974
 - displaying OPR-GDE-974
 - ANR labels SNA-PRM-128, SNA-PRM-136
 - API changes MIG-GD2-480
 - ARB pacing
 - values for calculating OPR-GDE-975, OPR-GDE-976, OPR-GDE-977
 - architecture MIG-GD2-465
 - benefits of SNA-PRM-127
 - C/C++ language MIG-GD2-466
 - CINFC tags MIG-GD2-468

high-performance routing (HPR) support *(continued)*
 commands MIG-GD2-475
 CONKC tags MIG-GD2-468
 control messages SNA-PRM-151
 control messages
 displaying OPR-GDE-1012
 copy members MIG-GD2-468
 core blocks
 releasing SYS-MAC-117
 database changes MIG-GD2-481
 diagnostic information
 PIU trace facility SNA-PRM-177, SNA-PRM-291
 sense codes SNA-PRM-177
 disabling OPR-GDE-1029
 enabling OPR-GDE-1029
 fallback MIG-GD2-482
 feature changes MIG-GD2-481
 fixed file records MIG-GD2-469
 flow control
 ARB pacing SNA-PRM-168
 RTP output queue SNA-PRM-170
 forward ANR field SNA-PRM-138
 functional changes MIG-GD2-475
 functional overview MIG-GD2-464
 hardware MIG-GD2-465
 heartbeat message SNA-PRM-145
 host system changes MIG-GD2-480
 HPRMT
 defining SNA-PRM-156
 description of SNA-PRM-156
 displaying SNA-PRM-157
 percent in use OPR-GDE-1035
 size of OPR-GDE-974
 HPRSAT
 defining SNA-PRM-155
 description of SNA-PRM-155
 displaying SNA-PRM-156
 size of OPR-GDE-978
 input messages
 reassembling SNA-PRM-176
 installation validation MIG-GD2-481
 installing SNA-PRM-176
 interfaces MIG-GD2-466
 IPL considerations SNA-PRM-163
 links
 activating SNA-PRM-130
 ANR labels SNA-PRM-128, SNA-PRM-136
 displaying SNA-PRM-130
 maximum link size (MLS) SNA-PRM-174
 NCE identifiers SNA-PRM-129
 XID flows SNA-PRM-130
 loading process MIG-GD2-480
 LU-LU sessions
 active, number of OPR-GDE-985,
 OPR-GDE-1035
 CP-CP sessions SNA-PRM-167
 flows SNA-PRM-138
 maximum number per TPF processor
 OPR-GDE-978
 session addresses SNA-PRM-140
 starting SNA-PRM-135

high-performance routing (HPR) support *(continued)*
 LU-LU sessions *(continued)*
 tracing OPR-GDE-1052
 macros MIG-GD2-469
 migration scenarios MIG-GD2-481
 NCE identifiers SNA-PRM-129, SNA-PRM-138
 network failures
 alive timer SNA-PRM-145
 detecting SNA-PRM-144
 heartbeat message SNA-PRM-145
 short request timer SNA-PRM-144
 NHDR
 displaying OPR-GDE-1012
 NLP
 description of SNA-PRM-145
 displaying OPR-GDE-1012
 FID5 TH SNA-PRM-151
 HPR control messages SNA-PRM-151
 network considerations SNA-PRM-152
 NHDR SNA-PRM-147
 RH SNA-PRM-151
 RU SNA-PRM-151
 THDR SNA-PRM-149
 tracing OPR-GDE-1052
 node types
 ANR nodes SNA-PRM-127
 mobile RTP nodes SNA-PRM-143
 RTP nodes SNA-PRM-127
 stationary RTP nodes SNA-PRM-143
 offline messages MIG-GD2-476
 online messages MIG-GD2-476
 online system load MIG-GD2-480
 operating environment requirements MIG-GD2-465
 operational changes MIG-GD2-475
 output messages
 building SNA-PRM-172
 retransmitting SNA-PRM-174
 segmenting SNA-PRM-175
 overview MIG-GD2-13, MIG-GD2-464
 path switch timer
 changing OPR-GDE-974
 displaying OPR-GDE-974
 path switch
 CP-CP sessions SNA-PRM-167
 description of SNA-PRM-141
 path switch timer OPR-GDE-974, SNA-PRM-143
 process of SNA-PRM-141
 starting OPR-GDE-1037, SNA-PRM-141
 performance changes MIG-GD2-479
 planning information MIG-GD2-465
 prerequisite APARs MIG-GD2-464
 publication changes MIG-GD2-480
 reassembly
 description of SNA-PRM-174
 reverse ANR field SNA-PRM-138
 ROUTE_SETUP process SNA-PRM-136
 RTP connection resynchronization process
 description of SNA-PRM-163
 disabling OPR-GDE-980
 enabling OPR-GDE-980, SNA-PRM-167

high-performance routing (HPR) support *(continued)*

- RTP connections
 - deactivating OPR-GDE-1031, SNA-PRM-134
 - description of SNA-PRM-131
 - displaying OPR-GDE-1023, SNA-PRM-134
 - information about OPR-GDE-1023, OPR-GDE-1035
 - maximum number per TPF processor OPR-GDE-978
 - starting SNA-PRM-134, SNA-PRM-136
 - states of SNA-PRM-131
 - status of OPR-GDE-1023, OPR-GDE-1035
 - switching OPR-GDE-1037
 - TCIDs SNA-PRM-134
- RTPCB table
 - #RT1RI records SNA-PRM-155
 - #RT2RI records SNA-PRM-155
 - defining SNA-PRM-154
 - description of SNA-PRM-152
 - displaying SNA-PRM-155
 - initializing SNA-PRM-155
 - size of OPR-GDE-978
 - SNA control blocks, relationship with SNA-PRM-157
- segmentation
 - description of SNA-PRM-174
 - THDR chaining SNA-PRM-175, SNA-PRM-176
- segments MIG-GD2-471
- Select an RTP Connection user exit (URTP) SNA-PRM-136
- selective retransmission
 - description of SNA-PRM-173
- sense codes SNA-PRM-177
- session addresses SNA-PRM-140
- short request timer SNA-PRM-144
- SIP changes MIG-GD2-479
- smoothed round trip time SNA-PRM-144
- software (programming requirements) MIG-GD2-465
- SRTT SNA-PRM-144
- state changes
 - tracing OPR-GDE-1052
- status of
 - displaying OPR-GDE-1029
- storage changes MIG-GD2-479
- storage considerations MIG-GD2-479
- system equates MIG-GD2-475
- system errors MIG-GD2-476
- system generation changes MIG-GD2-479
- TCIDs SNA-PRM-134
- THDR chaining
 - description of SNA-PRM-175, SNA-PRM-176
- THDR
 - displaying OPR-GDE-1012
- traffic
 - tracing OPR-GDE-1052
- tuning SNA-PRM-176
- tuning changes MIG-GD2-479
- URTP user exit SNA-PRM-136
- user exits MIG-GD2-475

high-performance routing (HPR) support *(continued)*

- ZNKEY command OPR-GDE-974, OPR-GDE-975, OPR-GDE-976, OPR-GDE-977, OPR-GDE-978, OPR-GDE-980
- ZNMON command OPR-GDE-985
- ZNPIU command OPR-GDE-1012
- ZNRTP DISPLAY command OPR-GDE-1023, SNA-PRM-134, SNA-PRM-155
- ZNRTP HPR command OPR-GDE-1029
- ZNRTP INACT command OPR-GDE-1031, SNA-PRM-134
- ZNRTP INITIALIZE command SNA-PRM-155
- ZNRTP ROUTE command SNA-PRM-134
- ZNRTP SUMMARY command OPR-GDE-1035, SNA-PRM-134
- ZNRTP SWITCH command OPR-GDE-1037, SNA-PRM-141
- ZNTRP command OPR-GDE-1052
- high-performance routing message table (HPRMT)
 - defining
 - SNAKEY macro SNA-PRM-156
 - description of SNA-PRM-156
 - displaying
 - ZDDCA command SNA-PRM-157
 - ZNRTP SUMMARY command SNA-PRM-157
 - percent in use
 - displaying OPR-GDE-1035
 - size of
 - displaying OPR-GDE-974
 - ZNKEY command OPR-GDE-974
 - ZNRTP SUMMARY command OPR-GDE-1035
- high-performance routing message table
 - defining ACF-GDE-11
- high-performance routing session address table (HPRSAT)
 - defining
 - SNAKEY macro SNA-PRM-155
 - description of SNA-PRM-155
 - displaying
 - ZDDCA command SNA-PRM-156
 - size of
 - displaying OPR-GDE-978
 - ZNKEY command OPR-GDE-978
- high-performance routing session address table
 - defining ACF-GDE-11
- high-speed display message SYS-MAC-422
- high-speed lines
 - start MIG-GD1-74
 - stop MIG-GD1-74
 - support for MIG-GD1-72, MIG-GD1-73
- high-speed
 - input message, time stamp SPM-PRM-85
 - output message, time stamp SPM-PRM-85
- higher level file a record CLS-UGR-158
- higher-level functions APP-GDE-257, APP-GDE-269
- HIOSC macro SYS-MAC-281
- HN universal character set
 - CUAH program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS LUCS command OPR-GDE-102

- hold a found file record GEN-MAC-210
- hold a resource CLS-UGR-49
- holding a record GEN-MAC-10
- holding record locks in a commit scope APP-GDE-92
- holding record locks in a commit scope
 - commit-level hold APP-GDE-92
 - ECB-level hold APP-GDE-92
- holding records APP-GDE-8, APP-GDE-21, APP-GDE-234, APP-GDE-247, APP-GDE-259
- home virtual address space CON-STR-26
- home virtual address space
 - special use of CON-STR-26
- hook insertion for data collection SYS-MAC-24
- horizontal record allocation CON-STR-9, CON-STR-97
- horizontal record allocation
 - access by multiple Entries CON-STR-97
- host applications SNA-PRM-25
- host language considerations when using the same cursor
 - assembler modifications AR-USG-43
 - TPF C modifications AR-USG-42
- host node SNA-PRM-4
- Host Node Application Considerations SNA-PRM-26
- HOST parameter of DB2 precompiler AR-USG-34
- HOST parameter of TPF DB2 postprocessor AR-USG-36
- host support
 - multiple SNA-PRM-49
- hotcon table (HCT)
 - entries
 - maximum number OPR-GDE-978
 - ZNKEY command OPR-GDE-978
- hotcon
 - benefits AR-USG-97
 - cost AR-USG-97
 - definition of ACF-GDE-10, AR-USG-13, AR-USG-111
 - table ACF-GDE-10, AR-USG-13
- hotcons AR-USG-16
- HP universal character set
 - CUAH program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS LUCS command OPR-GDE-102
- HPFMMR parameter
 - SNAKEY macro ACF-GDE-15
- HPO (High Performance Option) GIM-12, SNA-PRM-3
- HPO (High Performance Option)
 - feature GIM-13
 - loosely coupled facility GIM-7, GIM-10
 - multiple database function GIM-10
- HPO
 - loosely coupled facility MSP-PRM-33
 - multiple database function MSP-PRM-33
- HPR (half-session to presentation services record) SNA-PRM-69
- HPR control message
 - sending SYS-MAC-453
 - writing SYS-MAC-453
- HPR control messages SNA-PRM-151
- HPR control messages
 - displaying OPR-GDE-1012
 - ZNPIU command OPR-GDE-1012
- HPR LU-LU sessions
 - active, number of
 - displaying OPR-GDE-985, OPR-GDE-1035
 - maximum number per TPF processor
 - displaying OPR-GDE-978
 - statistical information
 - displaying OPR-GDE-985
 - tracing OPR-GDE-1052
 - ZNKEY command OPR-GDE-978
 - ZNMON command OPR-GDE-985
 - ZNRTP SUMMARY command OPR-GDE-1035
 - ZNTRP command OPR-GDE-1052
- HPR SOUTC type-A block SNA-PRM-172
- HPR SOUTC type-B block SNA-PRM-172
- HPR SOUTC type-C block SNA-PRM-172
- HPR support
 - #RT1RI records ACF-GDE-25
 - #RT1RI records
 - defining ACF-GDE-25
 - adaptive rate-based (ARB) pacing
 - calculating ACF-GDE-15, ACF-GDE-16
 - alive timer
 - defining ACF-GDE-15
 - core blocks
 - releasing SYS-MAC-117
 - HPRALIVE parameter ACF-GDE-15
 - HPRMT
 - defining ACF-GDE-11
 - HPRMTSIZ parameter ACF-GDE-11
 - HPRPST parameter ACF-GDE-15
 - HPRSAT
 - defining ACF-GDE-11
 - MAXHPRSA parameter ACF-GDE-11
 - MAXRTPCB parameter ACF-GDE-12
 - path switch timer
 - defining ACF-GDE-15
 - RTP resynchronization process
 - enabling ACF-GDE-18
 - RTPCB table
 - defining ACF-GDE-12
 - RTPRSYNC parameter ACF-GDE-18
- HPRALIVE parameter
 - SNAKEY macro ACF-GDE-15
- HPRMTSIZ parameter
 - SNAKEY macro ACF-GDE-11
- HPRPST parameter
 - SNAKEY macro ACF-GDE-15
- HTTP server APP-GDE-173
- HTTP server
 - general discussion APP-GDE-173
- Hypertext Transfer Protocol (HTTP) server MIG-GD2-504
- Hypertext Transfer Protocol (HTTP) server
 - description of CON-STR-189
 - socket application CON-STR-188, CON-STR-189

- I-level error messages ACF-GDE-31
- I-stream CLS-UGR-518
- i-stream change SYS-MAC-467
- I-stream engine CON-STR-21, CON-STR-24
- I-stream engine
 - application I-stream engine CON-STR-48, CON-STR-49
 - categories of CON-STR-48
 - CPU affinity CON-STR-47
 - main I-stream engine CON-STR-48
 - moving work CON-STR-84
 - multiprogramming CON-STR-43
 - relation to SVM CON-STR-26
 - shared record CON-STR-132
 - switch I/O processing between I-stream engines CON-STR-87
 - unique record CON-STR-132, CON-STR-133
- I-stream scheduler tuning parameters
 - changing OPR-GDE-222
 - ZCNIS command OPR-GDE-222
- I-stream status display PDV-PRM-70
- I-stream unique/shared records INS-PRM-253, INS-PRM-309
- I-stream utilization SYS-GEN-48, SYS-GEN-50
- I-stream
 - globals
 - how to modify MIG-GD1-311
 - programs
 - location of the demand counter MIG-GD1-219
 - records
 - FACZC utility MIG-GD1-247
 - how to access MIG-GD1-247
- I/O associated unusual conditions GEN-MAC-22
- I/O block (IOB) CON-STR-74
- I/O block (IOB)
 - use by FINDC macro service routine CON-STR-88
- I/O block address
 - get available SYS-MAC-42
- I/O completion
 - suspend ECB SYS-MAC-349
- I/O control block address
 - release SYS-MAC-75
- I/O delay time factor
 - changing OPR-GDE-417
 - displaying OPR-GDE-417
 - ZFCAP IOTIME command OPR-GDE-417
- I/O descriptions DBS-REF-91
- I/O events SYS-MAC-392
- I/O hardware errors GEN-MAC-22
- I/O Interrupt Status Update SYS-MAC-214
- I/O interrupts SYS-MAC-58
- I/O messages to CRAS PSM-GDE-3
- I/O operation
 - resetting SYS-MAC-406
- I/O Operation
 - starting SYS-MAC-436
- I/O operations
 - completion GEN-MAC-15
- I/O processing SYS-MAC-405
 - I/O processing
 - switch I/O processing between I-stream engines CON-STR-87
 - I/O request
 - preemptive SYS-MAC-378
 - return from SYS-MAC-380
 - I/O stream class libraries
 - C++ class library support MIG-GD2-587
 - I/O stream pipes APP-GDE-136
 - I/O trace GIM-26, MSP-PRM-47
 - I/O trace facility
 - input/output (I/O) trace MIG-GD1-14
 - overview MIG-GD1-10, MIG-GD1-14, MIG-GD1-294, MIG-GD1-299
 - I/O-associated unusual conditions APP-GDE-38
 - I/O
 - DASD APP-GDE-150
 - tape APP-GDE-152
 - IATA parameter
 - RSC statement ACF-GDE-43
 - IBM 3088 Multisystem Channel Communication Unit MIG-GD1-187, MIG-GD2-37
 - IBM 3172 Model 3 Interconnect Controller
 - installation CLAWGR-29
 - IBM 3505 Card Reader MIG-GD1-187, MIG-GD2-37
 - IBM 3737 Remote Channel-to-Channel Unit Model 1 MIG-GD1-187, MIG-GD2-37
 - IBM 4248 Impact Line Printer Model 2 MIG-GD1-187, MIG-GD2-37
 - IBM 9032 Enterprise Systems Connection Director (ESCD) Model 2 MIG-GD1-187, MIG-GD2-37
 - IBM 9033 Enterprise Systems Connection Director (ESCD) Model 1 MIG-GD1-188, MIG-GD2-38
 - IBM 9034 IBM ES Connection Converter Model 1 MIG-GD1-188, MIG-GD2-38
 - IBM 9035 ESCON Converter Model 2 MIG-GD1-188, MIG-GD2-38
 - IBM C language support
 - c\$idfunc.h header file MIG-GD1-221, MIG-GD1-223
 - c\$idsalo.h header file MIG-GD1-223, MIG-GD1-224
 - calloc MIG-GD1-307
 - malloc MIG-GD1-307
 - 31-bit mode MIG-GD1-220
 - access CINFC labels MIG-GD1-232
 - addressing mode allocation MIG-GD1-218
 - C run-time library MIG-GD1-224
 - changes GIM-29
 - code entries in C\$UCNFEQ MIG-GD1-232
 - code the UCNFEQ macro MIG-GD1-232
 - define authorization bits for program privileges MIG-GD1-223
 - overview MIG-GD1-13
 - program allocation MIG-GD1-220
 - run-time library for E-type loader (OLDR) MIG-GD1-225
 - IBM C/C++ for MVS/ESA Version 3 Release 1 compiler support for MIG-GD1-197, MIG-GD2-47, MIG-GD2-359
 - IBM Enterprise Storage Server (ESS) DBS-REF-49
 - IBM Enterprise Systems Connection Architecture
 - MPI-PRM-43, MPI-PRM-44

IBM ESCA MPI-PRM-44
 IBM ESCON MPI-PRM-43
 IBM ESCON channel adapter
 support for MIG-GD1-186, MIG-GD2-36
 IBM OS/390 C/C++ Version 1 Release 2 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM OS/390 C/C++ Version 1 Release 3 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM OS/390 C/C++ Version 2 Release 10 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM OS/390 C/C++ Version 2 Release 4 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM OS/390 C/C++ Version 2 Release 6 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM OS/390 C/C++ Version 2 Release 8 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM OS/390 C/C++ Version 2 Release 9 compiler
 support for MIG-GD1-197, MIG-GD2-47
 IBM recoup active root table (IRART) DBS-REF-116
 IBM recoup scheduling control table (IRSCT)
 DBS-REF-116
 IBM z/OS Version 1 Release 2
 support for MIG-GD1-197, MIG-GD2-47
 IBMPAL macro SYS-GEN-36, SYS-GEN-183
 IBMPAL
 use by the system allocator (SALO) program
 MIG-GD1-217, MIG-GD1-224
 IBMSVC macro SYS-MAC-282
 ICCB SNA-PRM-67
 ICCB DSECT OPR-GDE-923
 ICDF (in-core dump formatter)
 See terminal simulation, online
 ICELOG macro SYS-MAC-283
 ICELOG
 macro, description of APP-GDE-220
 ICKDSF MSP-PRM-3, SYS-GEN-175
 ICKDSF disk formatter SYS-GEN-175
 ICKDSF utility OPR-GDE-3
 ICL (ISO-C link table) SYS-GEN-180
 ICLANC macro SYS-MAC-285
 ICNOS SNA-PRM-68
 ICPLOG macro SYS-MAC-286
 ICPLOG
 macro, description of APP-GDE-220
 ID errors on find and file macros GEN-MAC-22
 ID shift for SS/SSUs SYS-MAC-337
 IDATB macro MSP-PRM-42, SYS-MAC-289
 IDATG call
 IBM provided MIG-GD1-238
 selective memory dump table (SMDT) MIG-GD1-238
 IDATG macro MSP-PRM-42, SYS-MAC-293
 IDAW (indirect data address word) SNA-PRM-11
 IDECSUD error indicator, data event control blocks
 (DECBS) APP-GDE-32
 identification number of pilot system PDV-PRM-6
 identifier, macro PDV-PRM-10
 identify a CA list for use with client certificate requests
 SSL API function, SSL_set_client_CA_list
 CLAWGR-324
 identify set of CAs sent to remote client
 SSL API function, SSL_CTX_set_client_CA_list
 CLAWGR-292
 identify the password to access data in a private key in
 PEM format
 SSL API function,
 SSL_CTX_set_default_passwd_cb_userdata
 CLAWGR-293
 identify token (IDTOK) MSP-PRM-35
 identifying recipients of messages GEN-MAC-12
 IDOTB call
 code dump overrides MIG-GD1-238
 code prefixes MIG-GD1-238
 generate entries in your static override bitmap table
 (SOBT) MIG-GD1-238
 override what is coded MIG-GD1-238
 IDOTB macro INS-PRM-4, MSP-PRM-43,
 SYS-MAC-296
 IDOTB macro
 associate system error numbers with keywords in
 selective memory dump table (SMDT)
 MIG-GD1-238
 use to provide IDATG calls to selective memory
 dump table (SMDT) MIG-GD1-238
 IDs, record DBS-REF-137
 IDSDEC SYS-MAC-29
 IEBUPDTE
 DRIL PDV-PRM-17
 IF macro group
 description of SPM-106
 ELSE macro SPM-106
 ENDIF macro SPM-106
 example of SPM-110
 IF macro SPM-106
 THEN macro SPM-106
 IFRVTC macro SYS-MAC-300
 IGATC macro SYS-MAC-302
 IGTCCB macro GEN-MAC-269
 IHPR SNA-PRM-69
 ILCKCB macro SYS-MAC-304
 ILWPC parameter
 SNAKEY macro ACF-GDE-15
 ILWPE parameter
 SNAKEY macro ACF-GDE-15
 ILWPF parameter
 SNAKEY macro ACF-GDE-16
 ILWPI parameter
 SNAKEY macro ACF-GDE-16
 ILWPS parameter
 SNAKEY macro ACF-GDE-16
 image components
 CIMR
 converting logical to physical OPR-GDE-633
 copying OPR-GDE-616
 deleting OPR-GDE-636
 CTKX
 copying OPR-GDE-616
 ZIMAG COPY command OPR-GDE-616
 ZIMAG MAKEPHYS command OPR-GDE-633
 ZIMAG UNREF command OPR-GDE-636
 image pointer record MIG-GD1-14

- image pointer record (CTKX) SYS-GEN-329
- image pointer record
 - VEQR (virtual-equals-real) mode
 - See virtual-equals-real (VEQR) mode
- images, multiple DBS-REF-96
- images
 - creating INS-PRM-341
 - defining INS-PRM-342
 - enabling INS-PRM-361
 - IPLing INS-PRM-362
- IMAP server
 - general discussion CLAWGR-253
- IMAP/POP configuration file
 - /etc/imapd.conf CLAWGR-259
 - creating CLAWGR-259
 - general discussion CLAWGR-259
 - parameters CLAWGR-262
- imbedded file address PDV-PRM-30
- immediate ECB creation GEN-MAC-110
- immediate file CON-STR-104, CON-STR-139
- implementation differences for TFTP server
 - APP-GDE-174
- implied ROLLBACK AR-USG-31, AR-USG-32
- implied Wait
 - meaning of GEN-MAC-6
- importing functions and variables CLS-UGR-93
- improved data recording capability (IDRC)
 - support for MIG-GD1-186, MIG-GD2-36
- IMS SNA-PRM-26
- IMS compatibility SNA-PRM-19
- IMS Relay Application Considerations SNA-PRM-28
- IMS
 - conventions SNA-PRM-28
 - errors SNA-PRM-28
- in-core dump formatter (ICDF) SYS-GEN-39,
 - SYS-GEN-56
- in-core dump formatter (ICDF)
 - See terminal simulation, online
- in-core pool reuse table, clearing CLS-UGR-1329
- in-use ECB information
 - ZDECB command OPR-GDE-311
- inbound message flow SNA-PRM-5
- inbound message flow extensions SNA-PRM-317
- inbound message flow, TCP/IP native stack support
 - CLAWGR-48
- inbound message queuing SNA-PRM-100
- increment count for event CLS-UGR-108
- Increment Count for Event macro GEN-MAC-177
- incrementing
 - cursor to next element CLS-UGR-1135
 - returning the next element CLS-UGR-1159,
 - CLS-UGR-1165
- indenting SPM-10
- index detail file
 - testing for SPM-20
- INDEX macro SYS-MAC-264, SYS-MAC-306
- index, database organization CON-STR-97
- indexed macro table
 - add macro definitions MIG-GD1-232
- indexed supervisor call (SVC)
 - changes MIG-GD1-231
- indexed supervisor call (SVC) (*continued*)
 - IBM reserved MIG-GD1-231
 - specify in supervisor call (SVC) tables MIG-GD1-231
 - support levels MIG-GD1-231
 - user reserved MIG-GD1-231
- indexed SVC SYS-MAC-180
- indicate that an application is a client and supports SSL
 - version 2
 - SSL API function, SSLv2_client_method
 - CLAWGR-335
 - version 3
 - SSL API function, SSLv3_client_method
 - CLAWGR-339
- indicate that an application is a client and supports SSL
 - versions 2 and 3 and TLS version 1
 - SSL API function, SSLv23_client_method
 - CLAWGR-337
- indicate that an application is a client and supports TLS
 - version 1
 - SSL API function, TLSv1_client_method
 - CLAWGR-341
- indicate that an application is a server and supports
 - SSL version 2
 - SSL API function, SSLv2_server_method
 - CLAWGR-336
 - version 3
 - SSL API function, SSLv3_server_method
 - CLAWGR-340
- indicate that an application is a server and supports
 - SSL versions 2 and 3 and TLS version 1
 - SSL API function, SSLv23_server_method
 - CLAWGR-338
- indicate that an application is a server and supports
 - TLS version 1
 - SSL API function, TLSv1_server_method
 - CLAWGR-342
- indicate whether to verify remote peers starting SSL
 - sessions
 - SSL API function, SSL_CTX_set_verify
 - CLAWGR-294
- indicate whether to verify the remote client identity when
 - an SSL session starts
 - SSL API function, SSL_set_verify CLAWGR-327
- indicator bit
 - description MIG-GD1-242
 - FARF3 use MIG-GD1-242
 - FARF4 use MIG-GD1-242
- indicator bytes, tracing PDV-PRM-47
- indicators
 - clearing GEN-MAC-24
- indirect data address word (IDAW) SNA-PRM-11
- indirect data addressing (IDAW)
 - changes MIG-GD1-230
- individual IP trace OPR-GDE-661
- individual IP trace support
 - configuring CLAWGR-59
 - displaying individual tables CLAWGR-77
 - using CLAWGR-76

INDSN macro INS-PRM-401, INS-PRM-406,
 SYS-GEN-261
 industry standards CLAWGR-7
 INFO option for C headers PSM-GDE-25
 information about a class name
 ZBROW CLASS command OPR-GDE-116
 information display
 continuing OPR-GDE-1111
 scrolling OPR-GDE-34
 Z Mxyy command OPR-GDE-34
 ZPAGE command OPR-GDE-1111
 Information Management System (IMS) CON-STR-169
 information, getting for a class CLS-UGR-1260
 informational messages ACF-GDE-31
 infrastructure for 32-way loosely coupled processor
 support
 API changes MIG-GD2-828
 architecture MIG-GD2-818
 C/C++ language MIG-GD2-820
 CINFC tags MIG-GD2-822
 commands MIG-GD2-827
 CONKC tags MIG-GD2-822
 copy members MIG-GD2-822
 database changes MIG-GD2-829
 feature changes MIG-GD2-829
 fixed file records MIG-GD2-822
 functional changes MIG-GD2-826
 functional overview MIG-GD2-818
 host system changes MIG-GD2-828
 installation validation MIG-GD2-829
 interfaces MIG-GD2-820
 loading process MIG-GD2-827
 macros MIG-GD2-823
 migration scenarios MIG-GD2-829
 offline messages MIG-GD2-827
 online messages MIG-GD2-827
 online system load MIG-GD2-828
 operating environment requirements MIG-GD2-820
 operational changes MIG-GD2-826
 overview MIG-GD2-13, MIG-GD2-818
 performance changes MIG-GD2-827
 planning information MIG-GD2-820
 prerequisite APARs MIG-GD2-818
 publication changes MIG-GD2-828
 segments MIG-GD2-825
 SIP changes MIG-GD2-827
 storage changes MIG-GD2-827
 storage considerations MIG-GD2-827
 system equates MIG-GD2-826
 system errors MIG-GD2-827
 system generation changes MIG-GD2-827
 tuning changes MIG-GD2-827
 user exits MIG-GD2-826
 initial population of a data store APP-GDE-104
 initial program load (IPL)
 3705 communications control unit
 automatic IPL option OPR-GDE-40
 performing an IPL OPR-GDE-40
 Z3705 IPL command OPR-GDE-40
 destructive IPL MIG-GD1-274
 loader general file OPR-GDE-3
 initial program load (IPL) (*continued*)
 loosely coupled procedure OPR-GDE-3
 operating mode
 changing OPR-GDE-222
 performing OPR-GDE-3, OPR-GDE-1219
 program allocation table (PAT) changes taking effect
 MIG-GD1-63
 program wait states OPR-GDE-5
 Record Cache RPQ OPR-GDE-5
 release a data set MIG-GD1-69
 restart a control program (CP) MIG-GD1-80
 Sysplex Timer OPR-GDE-3
 time-of-day (TOD) clock OPR-GDE-3
 virtual route (VR) sequence number
 resynchronizing OPR-GDE-974
 ZCNIS command OPR-GDE-222
 ZNKEY command OPR-GDE-974
 ZRIPL command OPR-GDE-1219
 initial setup for external device support CLS-UGR-1357
 initial stack frame dump APP-GDE-298
 initialization of a disk module CON-STR-149
 initialization processing INS-PRM-22, INS-PRM-24
 initialization, database reorganization DBS-REF-92
 initialize a CLAW adapter CLAWGR-397
 initialize a FARW CLS-UGR-120
 initialize and empty a signal set CLS-UGR-492
 initialize and fill a signal set CLS-UGR-493
 Initialize and Reset Communication Lines macro
 SYS-MAC-161
 initialize CLAW activity CLAWGR-396
 initialize data sets SYS-GEN-175
 initialize long-term directory table
 ZPOOL INIT command OPR-GDE-1124
 initialize pool directory update
 ZPOOL INIT command OPR-GDE-1124
 initialize pseudo directory
 ZPOOL INIT command OPR-GDE-1124
 initialize recoup records
 ZPOOL INIT command OPR-GDE-1124
 initialize the BKD load control record
 ZRBKD command OPR-GDE-1141
 initialize the file descriptor set CLS-UGR-140
 initialize
 TPF collection support OPR-GDE-1097
 ZOODB INIT command OPR-GDE-1097
 initializer MSP-PRM-4
 initializer for CP SYS-GEN-41
 initializer, cache DBS-REF-46
 initializing GEN-MAC-246
 initializing a cursor APP-GDE-109
 initializing a database CON-STR-148
 initializing ECBs APP-GDE-27
 initializing storage blocks GEN-MAC-249
 Initializing Storage macro GEN-MAC-57
 initializing the system MSP-PRM-1
 initializing TPF collection support DBS-REF-148
 initializing TPFCS CON-STR-167
 initializing user trace area
 CEXP user exit PDV-PRM-136, PDV-PRM-151
 initializing
 storage blocks GEN-MAC-246

- initiate (SNA command) SNA-PRM-22
- Initiate A Preemptive I/O Request macro SYS-MAC-378
- initiate a request to open a CLAW logical link
 - CLAWGR-390
- initiate CCP trace recording OPR-GDE-708
- Initiate GFS Control macro GEN-MAC-260
- initiate trace recording wrap around mode
 - OPR-GDE-706
- initiation, variable SPM-PRM-93
- INN (Intermediate Network Node) SNA-PRM-29
- inode
 - stat CLS-UGR-317, CLS-UGR-513
- input buffer size
 - relationship to bind command processing
 - SNA-PRM-32
- input buffers
 - 37x5 devices
 - number allocated OPR-GDE-978
 - size of OPR-GDE-981
 - CTC links
 - number defined OPR-GDE-974
 - ZNKEY command OPR-GDE-974, OPR-GDE-978, OPR-GDE-981
- input character set PSM-GDE-3
- input data APP-GDE-43
- input data sets
 - ALS deck ACF-GDE-45
 - ANT deck ACF-GDE-34
 - DDNAME=STGINP ACF-GDE-30
 - description of ACF-GDE-30
 - RSC deck ACF-GDE-37
- input deck
 - changes MIG-GD1-217
 - content for system allocator (SALO) MIG-GD1-218
 - IBM defined MIG-GD1-217
 - IBMPAL MIG-GD1-217, MIG-GD1-224
 - limitations MIG-GD1-217
 - SKPAL MIG-GD1-228
 - user defined MIG-GD1-217
- input decks, SALO INS-PRM-400
- input definition statements
 - ALS statement ACF-GDE-46
 - ANTDEF statement ACF-GDE-35
 - ANTEND statement ACF-GDE-37
 - ANTNME statement ACF-GDE-36
 - CDRM statement ACF-GDE-38
 - comment record ACF-GDE-33
 - commentary ACF-GDE-33
 - continuation records ACF-GDE-33
 - CTC statement ACF-GDE-49
 - how to code ACF-GDE-33
 - input list report ACF-GDE-31
 - list of ACF-GDE-31
 - NCP statement ACF-GDE-47
 - network IDs ACF-GDE-33
 - OPCODE ACF-GDE-33
 - reserved names ACF-GDE-34
 - resource names ACF-GDE-33
 - RSC statement ACF-GDE-40
 - RSCDEF statement ACF-GDE-39
 - RSCEND statement ACF-GDE-45
- input definition statements (*continued*)
 - RSCSET statement ACF-GDE-44
 - symbol parameter ACF-GDE-33
- input devices
 - assign data definition names MIG-GD1-268
- input edit APP-GDE-45
- input list APP-GDE-228, CON-STR-61
- input list report
 - description of ACF-GDE-31
- input list
 - control levels
 - changing OPR-GDE-48
 - displaying OPR-GDE-292
 - create new ECB and transfer control macro (CXFRC)
 - CON-STR-83
 - display control levels MIG-GD1-272
 - modify control levels MIG-GD1-272
 - size MIG-GD1-216
 - ZACLV command OPR-GDE-48
 - ZDCLV command OPR-GDE-292
- input message CON-STR-3, CON-STR-6, CON-STR-11, SNA-PRM-47
- input message editor DCS-PRM-151
- input message format PSM-GDE-3
- input message restrictions DCS-PRM-22
- Input Message Router Exit SNA-PRM-265
- input message tokenization CLS-UGR-1447
- input message tokenization support GEN-MAC-40
- input message, high-speed SPM-PRM-85
- input message
 - destination CON-STR-171
 - handled by non-SNA communications control
 - CON-STR-169
 - handled by SNA communications control
 - CON-STR-169
 - origin CON-STR-169, CON-STR-171
 - processing of CON-STR-57
 - relationship to MIPS CON-STR-16
- input messages, HPR
 - reassembling SNA-PRM-176
- input messages
 - input for running PTV PDV-PRM-11
 - MSG record PDV-PRM-11
 - safe store file copy
 - creating OPR-GDE-977
 - STC data generation facility PDV-PRM-11
 - transaction analysis user exit
 - calling OPR-GDE-981
 - ZNKEY command OPR-GDE-977, OPR-GDE-981
- input phase DBS-REF-97
- input pilot tape (SDF) APP-GDE-288
- input sequence
 - input for running PTV PDV-PRM-11
 - required PDV-PRM-43
- input statements
 - allocate spare program slots MIG-GD1-222
 - allocate transfer vectors MIG-GD1-221
 - define pools MIG-GD1-222
- input, installation SPM-PRM-94
- input/output block (IOB)
 - application program use MIG-GD1-312

input/output block (IOB) *(continued)*
 changes MIG-GD1-214, MIG-GD1-229,
 MIG-GD1-230
 DASD code MIG-GD1-278
 get and release MIG-GD1-278
 set for CPU loop shutdown levels MIG-GD1-216
 supply the file address of the FARF record
 MIG-GD1-246
 system shutdown value MIG-GD1-82
 working storage relationship MIG-GD1-214

input/output blocks (IOBs)
 minimum percentage required
 changing OPR-GDE-976
 displaying OPR-GDE-976
 ZNKEY command OPR-GDE-976

input/output control block (IOB) SYS-GEN-41

input/output macros GEN-MAC-18

input/output
 error testing CLS-UGR-143
 opening files CLS-UGR-199

input
 for running PTV
 input messages PDV-PRM-11
 online disk packs PDV-PRM-6
 overview PDV-PRM-5
 pilot tape PDV-PRM-6
 PTV control records PDV-PRM-7
 required input sequence PDV-PRM-11
 sample JCL for test unit tape (TUT) PDV-PRM-11
 tape requirements PDV-PRM-12
 test unit tape (TUT) PDV-PRM-5

INQRC macro GEN-MAC-271

inquire about object attributes CLS-UGR-349

INREC parameter
 SNAKEY macro ACF-GDE-16

insert hook for data collection SYS-MAC-24

insert specified data in the collection CLS-UGR-888,
 CLS-UGR-1115

Install signal handler CLS-UGR-495

installation details SPM-PRM-91

installation requirements SYS-GEN-173

installation
 data collection/reduction programs SPM-PRM-7
 input SPM-PRM-94
 PUT 2
 general file format changes MIG-GD2-116
 install on a new image MIG-GD2-114
 overview MIG-GD2-114
 problem determination table MIG-GD2-116
 procedure MIG-GD2-114

installing TPF/APPC SNA-PRM-60

instantaneous activity SPM-PRM-25

instruction fetching events
 tracing PDV-PRM-62

instruction stream parameters
 changing OPR-GDE-222
 ZCNIS command OPR-GDE-222

instruction
 compare and swap (CS) CON-STR-30
 compare double and swap (CDS) CON-STR-30
 contrast with command CON-STR-32

instruction *(continued)*
 interlock CON-STR-31
 load PSW (LPSW) CON-STR-36
 set system mask (SSM) CON-STR-36
 start subchannel (SSCH) CON-STR-32
 supervisor call (SVC) CON-STR-36
 test and set (TS) CON-STR-30

instructions
 application program considerations MIG-GD1-306

insufficient core message
 replying to OPR-GDE-557
 ZFKPA command OPR-GDE-557

integer byte order conversion CLAWGR-120

integrated online pool maintenance and recoup support
 API changes MIG-GD2-877
 architecture MIG-GD2-831
 C/C++ language MIG-GD2-833
 CINFC tags MIG-GD2-837
 commands MIG-GD2-853
 CONKCC tags MIG-GD2-837
 copy members MIG-GD2-838
 database changes MIG-GD2-878
 feature changes MIG-GD2-878
 fixed file records MIG-GD2-838
 functional changes MIG-GD2-853
 functional overview MIG-GD2-831
 hardware MIG-GD2-833
 host system changes MIG-GD2-877
 installation validation MIG-GD2-878
 interfaces MIG-GD2-833
 loading process MIG-GD2-877
 macros MIG-GD2-839
 migration scenarios MIG-GD2-878
 offline messages MIG-GD2-855
 online messages MIG-GD2-855
 online system load MIG-GD2-877
 operating environment requirements MIG-GD2-833
 operational changes MIG-GD2-853
 overview MIG-GD2-14, MIG-GD2-831
 performance changes MIG-GD2-877
 planning information MIG-GD2-833
 prerequisite APARs MIG-GD2-831
 publication changes MIG-GD2-877
 segments MIG-GD2-843
 SIP changes MIG-GD2-877
 software (programming requirements) MIG-GD2-833
 storage changes MIG-GD2-877
 storage considerations MIG-GD2-877
 system errors MIG-GD2-855
 system generation changes MIG-GD2-877
 tuning changes MIG-GD2-877
 user exits MIG-GD2-853

integrity of database CON-STR-121

integrity of message CON-STR-182

integrity
 communication GIM-19

inter-I-stream communication
 changes MIG-GD1-235
 description MIG-GD1-235

inter-processor communication
 DASD GIM-29

- inter-processor communication (*continued*)
 - MPIF (Multi-Processor Interconnect Facility) GIM-29
- intercept SPM-PRM-83
- intercept, file SPM-PRM-83
- intercepts for data collection SYS-MAC-24
- interchange the status of two data levels CLS-UGR-197
- Interchange the Status of Two Data Levels macro
 - GEN-MAC-222
- interconnection device
 - types MIG-GD1-187, MIG-GD2-37
- interconnection of networks CLAWGR-3, CLAWGR-13
- interface changes
 - APAR summary MIG-GD2-1269
 - PUT summary MIG-GD2-1269
- interface control check (IFCC) MSP-PRM-44
- interface conversion for application interface
 - GEN-MAC-271
- interface for assembler GEN-MAC-399, GEN-MAC-401
- Interface for SIGP Services macro SYS-MAC-19
- interface to CP GEN-MAC-66
- interface to data collection SYS-MAC-24
- interface
 - AOR process model APP-GDE-187
 - changed for the TPF 4.1 system MIG-GD1-23
 - cipher program CLS-UGR-37
 - control program CLS-UGR-38
 - fast control program CLS-UGR-40
 - fast control program for any active subsystem
 - CLS-UGR-41
 - NEF support SNA-PRM-49
 - new for the TPF 4.1 system MIG-GD1-23
 - NOLISTEN process model APP-GDE-188
 - NOWAIT process model APP-GDE-185,
 - APP-GDE-187
 - obsolete for the TPF 4.1 system MIG-GD1-23
 - socket APIs CLAWGR-137
 - standard SNA-PRM-21
 - TPF/NEF/AX.25 SNA-PRM-45
 - WAIT APP-GDE-186
 - WAIT process model APP-GDE-184
- interfaces, socket/CLAW
 - inbound message flow CLAWGR-18
 - inbound message flow through CLAWGR-18
 - outbound message flow CLAWGR-17
- Intermediate Network Node (INN) SNA-PRM-29
- intermediate work data sets
 - description of ACF-GDE-32
 - RRT work files
 - SORTIN data set ACF-GDE-32
 - SORTOUT data set ACF-GDE-32
 - SORT work files
 - SYSUT1 ACF-GDE-32
 - SYSUT2 ACF-GDE-32
 - SYSUT3 ACF-GDE-32
- internal event facility
 - changes MIG-GD1-233
 - description MIG-GD1-233
 - table size MIG-GD1-233
- internal events GEN-MAC-187
- Internal Events GEN-MAC-14, GEN-MAC-179,
 - GEN-MAC-181, GEN-MAC-306
- internal format of collections CLS-UGR-1316
- internal recoup structures
 - initializing OPR-GDE-1201
 - ZRECP SETUP command OPR-GDE-1201
- internals, TCP/IP native stack support CLAWGR-39
- Internet daemon MIG-GD2-504
- Internet daemon configuration file (IDCF)
 - adding an entry for the TPF Internet mail servers
 - CLAWGR-267
 - adding entry for an Internet server application
 - CLAWGR-235
 - adding entry for the File Transfer Protocol (FTP)
 - server CLAWGR-243
 - adding entry for the syslog daemon server
 - CLAWGR-249
 - adding entry for the Trivial File Transfer Protocol
 - (TFTP) server CLAWGR-239
 - general discussion CLAWGR-235
- Internet daemon
 - adding entry to IDCF APP-GDE-188
 - configuration file MIG-GD2-505
 - configuration file (IDCF) APP-GDE-173,
 - APP-GDE-188
 - configuration file
 - adding entries to OPR-GDE-637
 - changing entries to OPR-GDE-645
 - deleting entries from OPR-GDE-652
 - displaying entries from OPR-GDE-654
 - description of CON-STR-188
 - general discussion APP-GDE-172
 - listener CLAWGR-236, MIG-GD2-505
 - maintaining MIG-GD2-506
 - monitor CLAWGR-236, MIG-GD2-505
 - operational considerations CLAWGR-235,
 - CLAWGR-236
 - operator procedures CLAWGR-235
 - process models APP-GDE-172
 - socket application CON-STR-188
 - starting CLAWGR-237, OPR-GDE-658
 - stopping CLAWGR-237, OPR-GDE-659
 - using `activate_on_receipt_with_length` function
 - APP-GDE-173
 - using `activate_on_receipt` function APP-GDE-173
 - using `swisc_create` function APP-GDE-173
 - using `tpf_fork` function APP-GDE-172,
 - APP-GDE-173
 - ZINET ADD command OPR-GDE-637
 - ZINET ALTER command OPR-GDE-645
 - ZINET DELETE command OPR-GDE-652
 - ZINET DISPLAY command OPR-GDE-654
 - ZINET START command OPR-GDE-658
 - ZINET STOP command OPR-GDE-659
- Internet mail account
 - creating OPR-GDE-720
 - deleting OPR-GDE-724
 - display the path to OPR-GDE-738
 - setting a password for OPR-GDE-736
 - ZMAIL CREATEMAILBOX command OPR-GDE-720
 - ZMAIL DELETEMAILBOX command OPR-GDE-724
 - ZMAIL PASSWORD command OPR-GDE-736
 - ZMAIL PATH command OPR-GDE-738

- Internet mail, processing CLS-UGR-320
- Internet mail
 - reading OPR-GDE-714
 - receiving CLAWGR-269
 - sending CLAWGR-269, OPR-GDE-714
 - TPF Internet mail server summary report SPM-PRM-33
- Internet Message Access Protocol (IMAP) server
 - checking status of OPR-GDE-714
 - starting OPR-GDE-714
 - stopping OPR-GDE-714
- Internet Protocol (IP) addresses, local
 - changing OPR-GDE-1398
 - current value
 - displaying OPR-GDE-973
 - defining OPR-GDE-1402
 - deleting OPR-GDE-1404
 - displaying OPR-GDE-1406
 - ZNKEY command OPR-GDE-973
 - ZTTCP CHANGE command OPR-GDE-1398
 - ZTTCP DEFINE command OPR-GDE-1402
 - ZTTCP DELETE command OPR-GDE-1404
 - ZTTCP DISPLAY command OPR-GDE-1406
- Internet Protocol (IP) addresses, virtual (VIPAs)
 - displaying statistics, example OPR-GDE-1431
 - moving, example OPR-GDE-1433
 - ZVIPA command OPR-GDE-1430
- Internet Protocol (IP) router
 - activating OPR-GDE-1396
 - changing local IP address for OPR-GDE-1398
 - deactivating OPR-GDE-1411
 - defining OPR-GDE-1402
 - deleting OPR-GDE-1404
 - displaying information about OPR-GDE-1406
 - ZTTCP ACTIVATE command OPR-GDE-1396
 - ZTTCP CHANGE command OPR-GDE-1398
 - ZTTCP DEFINE command OPR-GDE-1402
 - ZTTCP DELETE command OPR-GDE-1404
 - ZTTCP DISPLAY command OPR-GDE-1406
 - ZTTCP INACTIVATE command OPR-GDE-1411
- Internet Protocol (IP) routing table
 - adding entries OPR-GDE-1390
 - changing OPR-GDE-978
 - changing entries OPR-GDE-1390
 - deleting entries OPR-GDE-1390
 - displaying OPR-GDE-978, OPR-GDE-1390
 - displaying statistics OPR-GDE-1390
 - ZNKEY command OPR-GDE-978
 - ZTRTE command OPR-GDE-1390
- Internet Protocol (IP) trace facility, using CLAWGR-407
- Internet Protocol (IP) trace table
 - displaying OPR-GDE-668
 - initializing OPR-GDE-668
 - size of individual OPR-GDE-977
 - working with individual OPR-GDE-661
 - ZINIP command OPR-GDE-661
 - ZIPTR command OPR-GDE-668
- Internet Protocol (IP) trace
 - maximum number of individual OPR-GDE-977
 - starting OPR-GDE-1413
 - stopping OPR-GDE-1413
- Internet Protocol (IP) trace (*continued*)
 - using RIP messages in OPR-GDE-1413
 - working with individual table OPR-GDE-661
 - ZTTCP TRACE command OPR-GDE-1413
- internet protocol address table (IPT) CLAWGR-25
- internet protocol address table (IPT)
 - CLAWIP value CLAWGR-26
 - updated CLAWGR-25
- Internet security, overview CLAWGR-105
- Internet server application
 - ACTIVATION parameter CLAWGR-237
 - adding OPR-GDE-637
 - changing OPR-GDE-645
 - deleting OPR-GDE-652
 - displaying OPR-GDE-654
 - FTP server APP-GDE-173
 - HTTP server APP-GDE-173
 - interface APP-GDE-184
 - IP parameter CLAWGR-235
 - operator control CLAWGR-238
 - parameters in ZINET ADD command CLAWGR-237
 - parameters in ZINET ALTER command CLAWGR-237
 - porting APP-GDE-167
 - process models APP-GDE-176
 - starting OPR-GDE-658
 - STATE parameter CLAWGR-238
 - stopping OPR-GDE-659
 - syslog daemon APP-GDE-175
 - TFTP server APP-GDE-174
 - TPF Internet mail servers APP-GDE-175
 - USER parameter CLAWGR-237
 - writing APP-GDE-167
 - ZINET ADD command OPR-GDE-637
 - ZINET ALTER command OPR-GDE-645
 - ZINET DELETE command OPR-GDE-652
 - ZINET DISPLAY command OPR-GDE-654
 - ZINET START command OPR-GDE-658
 - ZINET STOP command OPR-GDE-659
- interprocessor communication MPIF report SPM-PRM-37
- interprocessor communications SYS-MAC-437
- interprocessor communications (IPC)
 - bibliography MSP-PRM-37
 - changes MIG-GD1-202, MIG-GD2-52
 - changing information OPR-GDE-1253
 - commands MSP-PRM-37
 - control blocks MSP-PRM-35
 - DASD to MPIF MIG-GD1-202, MIG-GD2-52
 - data received exit MSP-PRM-36
 - displaying information OPR-GDE-1256
 - for high performance option (HPO) MIG-GD1-202, MIG-GD2-52
 - general description MSP-PRM-35
 - HPO feature MIG-GD1-14
 - information, displaying and altering MSP-PRM-37
 - MPIF MIG-GD1-14
 - overview MIG-GD1-14
 - path active exit MSP-PRM-35
 - performance MSP-PRM-37
 - restart MSP-PRM-35

- interprocessor communications (IPC) *(continued)*
 - sending data MSP-PRM-36
 - ZSIPC ALTER command OPR-GDE-1253
 - ZSIPC DISPLAY command OPR-GDE-1256
- interprocessor communications facility (IPC)
 - CON-STR-51, CON-STR-182
- Interrogate Event Status macro GEN-MAC-179
- Interrogate Symbolic Device Address (SDA) Status macro SYS-MAC-326
- interrupt CON-STR-33
- interrupt processing CON-STR-33
- interrupt processing for CIO SYS-MAC-323
- interrupt processing
 - concurrent interrupts CON-STR-33, CON-STR-34
 - hardware interrupt CON-STR-36
 - relation to PSW CON-STR-33
 - software interrupt CON-STR-36
- Interrupt Status Update SYS-MAC-214
- interrupts, system
 - types of MSP-PRM-18
- interval, collection SPM-PRM-24
- introduction to TPF transaction services APP-GDE-89
- introduction to TPFCS CON-STR-159
- introduction to TPFCS database APP-GDE-101
- introduction
 - file address formats DBS-REF-3
 - general data sets DBS-REF-13
 - general files DBS-REF-17
 - TPF transaction services DBS-REF-125
- INTVL OPR-GDE-1457
- invalid condition
 - See error
- invalid format condition GEN-MAC-19
- invalid pseudo line number SNA-PRM-48
- inventory key, creating CLS-UGR-1244
- inventory, PID CLS-UGR-1303
- Invoke TCP/IP Native Stack Common Service Routine macro SYS-MAC-324
- invoking a program CON-STR-78
- IOBs SYS-MAC-218
- IOCB address
 - get SYS-MAC-42
 - release SYS-MAC-75
- IOCBs
 - use of MSP-PRM-22
- IOCDs considerations SYS-GEN-87
- IODEV macro SYS-GEN-264
- IOIRC macro SYS-MAC-323
- IP address selection CLAWGR-102
- IP message table CLAWGR-53
- IP message table, defining CLAWGR-54
- IP parameter CLAWGR-235, CLAWGR-236
- IP protocol
 - raw sockets CLAWGR-119
- IP routers, configuration characteristics CLAWGR-41
- IP routing table CLAWGR-54
- IP trace facility, using CLAWGR-407
- IP trace facility
 - defining the IPTPRT report CLAWGR-411
 - displaying information about CLAWGR-409
 - individual IP trace support CLAWGR-76
- IP trace facility *(continued)*
 - IP trace table
 - creating a compacted display CLAWGR-410
 - creating a formatted display CLAWGR-410
 - displaying online CLAWGR-409, CLAWGR-421
 - information about CLAWGR-407
 - storing data CLAWGR-408
 - writing to a real-time tape CLAWGR-409
 - IPTPRT utility CLAWGR-410
 - IPTPRT utility messages CLAWGR-421
 - sample JCI for the IPTPRT utility CLAWGR-411
 - starting CLAWGR-407
 - stopping CLAWGR-408
 - using CLAWGR-407
- IPC SYS-MAC-437
- IPC (inter-processor communications)
 - changes GIM-29
- IPC connection definition block (ICDB) MSP-PRM-35
- IPC global table (IGT) MSP-PRM-35
- IPC service SYS-MAC-435
- IPC Service Request macro SYS-MAC-435
- IPC_CREAT symbolic constant CLS-UGR-483
- IPC_EXCL symbolic constant CLS-UGR-483
- IPC_PRIVATE symbolic constant CLS-UGR-483
- IPC_RMID symbolic constant CLS-UGR-478
- IPC_SET symbolic constant CLS-UGR-478
- IPC_STAT symbolic constant CLS-UGR-478
- IPL SYS-GEN-19
- IPL considerations (hardware)
 - virtual route resynchronization SNA-PRM-231
- IPL virtual memory (IVM) CON-STR-26, CON-STR-72
- IPL, cache DBS-REF-42, DBS-REF-46
- IPL
 - fast MSP-PRM-3
 - hardware vs. software MSP-PRM-1
 - program SYS-GEN-19
 - with the CLEAR option SYS-GEN-21
- IPLB
 - duplicate volume serial number (VSN) MIG-GD1-274
 - overview MIG-GD1-274
- IPLing an image INS-PRM-362
- IPMTSIZE parameter
 - SNAKEY macro ACF-GDE-20
- IPRBUFFS parameter
 - SNAKEY macro ACF-GDE-20
- IPRBUFSZ parameter
 - SNAKEY macro ACF-GDE-20
- IPRSE CLS-UGR-1447
- IPSDC macro SYS-MAC-324
- IPSVE macro ACF-GDE-1, GEN-MAC-275
- IPSVT macro ACF-GDE-1, GEN-MAC-277
- IPT CLAWGR-25
- IPTOS parameter
 - SNAKEY macro ACF-GDE-20
- IPTPRT utility CLAWGR-410, CLAWGR-421
- IPTRCNUM parameter
 - SNAKEY macro ACF-GDE-20
- IPTRCSIZ parameter
 - SNAKEY macro ACF-GDE-20
- IPURGE macro SYS-MAC-325
- ISA (ISO-C assembler function table) SYS-GEN-180

- ISC (ISO-C source table) SYS-GEN-180
- ISCB SNA-PRM-68
- ISDAC macro SYS-MAC-326
- ISHLL macro SNA-PRM-213
- ISNSE macro SYS-MAC-328
- ISO-C assembler function table (ISA) SYS-GEN-180
- ISO-C C language support GIM-24
- ISO-C control area dump APP-GDE-297
- ISO-C E-type loader support
 - API changes MIG-GD2-136
 - architecture MIG-GD2-127
 - C/C++ language MIG-GD2-127
 - CINFC tags MIG-GD2-128
 - commands MIG-GD2-133
 - CONKC tags MIG-GD2-128
 - copy members MIG-GD2-128
 - database changes MIG-GD2-136
 - feature changes MIG-GD2-136
 - fixed file records MIG-GD2-129
 - functional changes MIG-GD2-133
 - functional overview MIG-GD2-127
 - host system changes MIG-GD2-136
 - installation validation MIG-GD2-136
 - interfaces MIG-GD2-127
 - loading process MIG-GD2-135
 - macros MIG-GD2-129
 - migration scenarios MIG-GD2-136
 - offline messages MIG-GD2-133
 - online messages MIG-GD2-133
 - online system load MIG-GD2-135
 - operating environment requirements MIG-GD2-127
 - operational changes MIG-GD2-133
 - overview MIG-GD2-127
 - performance changes MIG-GD2-134
 - planning information MIG-GD2-127
 - prerequisite APARs MIG-GD2-127
 - publication changes MIG-GD2-135
 - segments MIG-GD2-130
 - SIP changes MIG-GD2-134
 - storage changes MIG-GD2-134
 - storage considerations MIG-GD2-134
 - system equates MIG-GD2-132
 - system errors MIG-GD2-133
 - system generation changes MIG-GD2-134
 - tuning changes MIG-GD2-134
 - user exits MIG-GD2-132
- ISO-C file resident support
 - API changes MIG-GD2-179
 - architecture MIG-GD2-170
 - C/C++ language MIG-GD2-170
 - CINFC tags MIG-GD2-172
 - commands MIG-GD2-176
 - CONKC tags MIG-GD2-172
 - copy members MIG-GD2-172
 - database changes MIG-GD2-179
 - feature changes MIG-GD2-179
 - fixed file records MIG-GD2-173
 - functional changes MIG-GD2-176
 - functional overview MIG-GD2-170
 - host system changes MIG-GD2-178
 - installation validation MIG-GD2-179
- ISO-C file resident support (*continued*)
 - installing MIG-GD2-179
 - interfaces MIG-GD2-170
 - loading process MIG-GD2-178
 - macros MIG-GD2-173
 - migration scenarios MIG-GD2-179
 - offline messages MIG-GD2-177
 - online messages MIG-GD2-177
 - online system load MIG-GD2-178
 - operating environment requirements MIG-GD2-170
 - operational changes MIG-GD2-176
 - overview MIG-GD2-170
 - performance changes MIG-GD2-177
 - planning information MIG-GD2-170
 - prerequisite APARs MIG-GD2-170
 - publication changes MIG-GD2-178
 - segments MIG-GD2-175
 - SIP changes MIG-GD2-178
 - storage changes MIG-GD2-178
 - storage considerations MIG-GD2-178
 - system equates MIG-GD2-176
 - system errors MIG-GD2-177
 - system generation changes MIG-GD2-178
 - tuning changes MIG-GD2-177
 - user exits MIG-GD2-176
- ISO-C link table (ICL) SYS-GEN-180
- ISO-C program PDV-PRM-133, PDV-PRM-134, PDV-PRM-135, PDV-PRM-136
- ISO-C source table (ISC) SYS-GEN-180
- ISO-C structures
 - socket API functions, use CLAWGR-363
- ISO-C support
 - atexit function MIG-GD2-14
 - main MIG-GD2-14
 - strerror function MIG-GD2-14
 - system function MIG-GD2-14
 - allocation changes MIG-GD2-83
 - APAR PJ21907 MIG-GD2-118
 - API changes MIG-GD2-86
 - architecture MIG-GD2-55
 - builds MIG-GD2-82
 - C programs MIG-GD2-14
 - C/C++ language MIG-GD2-56
 - CINFC tags MIG-GD2-67
 - coexistent configurations MIG-GD2-85
 - commands MIG-GD2-76
 - compiles MIG-GD2-82
 - CONKC tags MIG-GD2-67
 - copy members MIG-GD2-67
 - CRPA changes MIG-GD2-82
 - CSECTs MIG-GD2-68
 - data collection MIG-GD2-81
 - database changes MIG-GD2-87
 - feature changes MIG-GD2-87
 - file resident support MIG-GD2-14
 - fixed file records MIG-GD2-69
 - functional additions for C main() support MIG-GD2-316
 - functional changes MIG-GD2-76
 - functional overview MIG-GD2-54
 - hardware MIG-GD2-56

- ISO-C support (*continued*)
 - highlights MIG-GD2-14
 - host system changes MIG-GD2-85
 - IBM C/C++ for MVS/ESA Version 3 Release 1
 - compiler function entries MIG-GD2-118
 - IBMPAL MIG-GD2-83
 - installation considerations MIG-GD2-87
 - installation validation MIG-GD2-87
 - interfaces MIG-GD2-56
 - IPAT MIG-GD2-83
 - loading process MIG-GD2-84
 - macro area MIG-GD2-81
 - macros MIG-GD2-69
 - migration considerations MIG-GD2-87
 - offline messages MIG-GD2-77
 - online messages MIG-GD2-77
 - online system load MIG-GD2-84
 - operating environment requirements MIG-GD2-56
 - operational changes MIG-GD2-76
 - overview MIG-GD2-14, MIG-GD2-54
 - performance changes MIG-GD2-80
 - planning information MIG-GD2-56
 - prerequisite APARs MIG-GD2-54
 - publication changes MIG-GD2-84
 - RAMFIL macro MIG-GD2-83
 - SALO MIG-GD2-83
 - segments MIG-GD2-73
 - SIP changes MIG-GD2-82
 - software (programming requirements) MIG-GD2-56
 - SPPBLD macro MIG-GD2-83
 - storage changes MIG-GD2-82
 - storage considerations MIG-GD2-82
 - system equates MIG-GD2-76
 - system errors MIG-GD2-77
 - system generation changes MIG-GD2-82
 - system heap MIG-GD2-14
 - TPF allocator MIG-GD2-83
 - tuning changes MIG-GD2-80
 - user exits MIG-GD2-76
 - USRTPF MIG-GD2-83

- ISO-C
 - greater than 4KB program support GIM-25
 - TPF file system functions CLS-UGR-1405
- issue a message CLS-UGR-619
- issue a user specified control operation CCW
 - CLS-UGR-560
- issue a user specified data transfer CCW
 - CLS-UGR-549
- issue help messages CLS-UGR-603
- issue
 - snapshot dump CLS-UGR-508
 - system error extended: operational CLS-UGR-456
 - system error SLIST: operational CLS-UGR-458
 - system error with message CLS-UGR-389
 - system error: operational CLS-UGR-454
- iterate over all elements CLS-UGR-1117
- iterating over collections APP-GDE-113
- iteration
 - #DO macro group SPM-50
 - definition of SPM-5
 - DO macro group SPM-99

- ITPNT SNA-PRM-62
- ITPNT macro ACF-GDE-2, GEN-MAC-278
- ITRPC macro GEN-MAC-283
- ITSTB pointers SYS-MAC-197
- IULKCB macro SYS-MAC-330
- IVTYPE macro GEN-MAC-246, SYS-MAC-331
- IWBL SNA-PRM-68

J

- JC data collection SPM-PRM-1
- JCL EXEC statement
 - example ACF-GDE-57
 - PARM field ACF-GDE-29
- JCL to run TPF DB2 postprocessor (TPF DB2PP)
 - AR-USG-36
- JCL, data trace postprocessor CLAWGR-343
- JCL, process data trace postprocessor CLAWGR-350
- JCL
 - examples ACF-GDE-57
 - multiple-volume serial numbers MIG-GD1-261
 - sample for running PTV PDV-PRM-11
 - samples
 - for phase 3 (package test) mode PDV-PRM-11
 - for system test vehicle (STV) mode PDV-PRM-11
 - serial numbers MIG-GD1-261
 - SIP Stage II SYS-GEN-473
- JDCD tape
 - data collection changes MIG-GD1-285
- job control language APP-GDE-250, MSP-PRM-49
- job control language (JCL)
 - sample for running PTV PDV-PRM-11
 - stand-alone dump (SADUMP) utility OPR-GDE-1449
 - stand-alone dump postprocessor (SADPRT) utility
 - OPR-GDE-1452
 - system test compiler OPR-GDE-1478
- JRA1 SPM-PRM-93
- JRM2 SPM-PRM-93
- JRM4 SPM-PRM-93

K

- KARMA macro GEN-MAC-285
- key 0 SYS-MAC-61
- key bag collection CON-STR-163, DBS-REF-134
- key path support APP-GDE-116
- key path support, TPFCS CON-STR-162
- key paths, using with cursors DBS-REF-141
- key set collection CON-STR-163, DBS-REF-135
- key sorted bag collection CON-STR-163,
 - DBS-REF-135
- key sorted set collection CON-STR-163, DBS-REF-135
- key-protected memory INS-PRM-402
- key-protected storage INS-PRM-403
- key-protected
 - memory
 - program residency MIG-GD1-219
 - storage
 - description MIG-GD1-219
- Key0 authorization SYS-MAC-14
- keyboard lock
 - CLEAR key PDV-PRM-66

keyboard lock (*continued*)
 RESET option PDV-PRM-66
 keyboard, locked SNA-PRM-27
 KEYCC macro SYS-MAC-332
 keyed log collection CON-STR-163, DBS-REF-136
 keypoint 2 (CTK2) AR-USG-14, AR-USG-17,
 SNA-PRM-67
 keypoint 6
 DASD status indicators
 replacing OPR-GDE-1236
 retaining OPR-GDE-1236
 ZRSTT command OPR-GDE-1236
 keypoint A
 storage allocation values
 changing OPR-GDE-231
 displaying OPR-GDE-236
 ZCTKA ALTER command OPR-GDE-231
 keypoint attributes
 displaying OPR-GDE-329
 ZDKAT command OPR-GDE-329
 keypoint backup area MSP-PRM-11
 keypoint backup area (KBA) SYS-GEN-74
 keypoint backup area (KBA)
 MDBF considerations SYS-GEN-74
 Keypoint Communication Data macro SYS-MAC-381
 keypoint data
 lost INS-PRM-350
 keypoint E
 replacing MPIF data OPR-GDE-803
 ZMPIF KPE command OPR-GDE-803
 keypoint filing GEN-MAC-266
 keypoint I (CTKI) AR-USG-22
 keypoint I
 Sysplex Timer information
 adding OPR-GDE-88
 ZATIM command OPR-GDE-88
 ZMIGR command OPR-GDE-780
 keypoint M
 insufficient core OPR-GDE-557
 ZFKPA command OPR-GDE-557
 keypoint record for PTV PDV-PRM-14
 Keypoint Record I (CTKI) MSP-PRM-3
 Keypoint Record M (CTKM) MSP-PRM-3
 keypoint records
 37x5 keypoint record OPR-GDE-963
 control program MSP-PRM-12, OPR-GDE-13,
 SYS-GEN-74
 keypoint setup for SLC channels SYS-MAC-189
 keypoint staging area MSP-PRM-11
 keypoint TPF global field or record CLS-UGR-279
 Keypoint Update macro SYS-MAC-334
 Keypoint updating GEN-MAC-198
 keypoint
 back up MIG-GD1-267
 BXAX MIG-GD1-206
 capture DBS-REF-62
 capture and restore
 initializing OPR-GDE-413, OPR-GDE-571
 capturing OPR-GDE-419
 continuing move or restore request OPR-GDE-627
 CTK3 MIG-GD1-14

keypoint (*continued*)
 CTK5 MIG-GD1-14, MIG-GD1-266
 CTKX MIG-GD1-14
 deleting OPR-GDE-629
 display pointer record OPR-GDE-673
 general file keypoint MIG-GD1-203, MIG-GD1-227
 keypoint 3 (CTK3)
 activate ENTNC expansions MIG-GD1-235
 changes MIG-GD1-217, MIG-GD1-235
 keypoint 9 (CTK9)
 how to load MIG-GD1-248
 migration considerations MIG-GD1-248
 pool data structures MIG-GD1-248
 keypoint staging area MIG-GD1-267
 keypoint X (CTKX)
 changes MIG-GD1-266
 loading SYS-GEN-17
 macros (non-SNA) SYS-GEN-132
 master DBS-REF-91
 moving OPR-GDE-629
 multiple TPF images MIG-GD1-267
 override DBS-REF-91
 overview MIG-GD1-14
 pointer record update OPR-GDE-673
 record DBS-REF-72, SYS-GEN-73
 restoring OPR-GDE-573, OPR-GDE-629
 staging area MIG-GD1-267
 staging area (KSA) SYS-GEN-74
 staging area
 description MIG-GD1-267
 store copies of keypoints MIG-GD1-267
 status record (PKST) SYS-GEN-16, SYS-GEN-132
 stopping move or restore request OPR-GDE-627
 table SYS-GEN-178
 working DBS-REF-91
 working keypoints MIG-GD1-267
 X SYS-GEN-330
 ZFCAP CLEAR command OPR-GDE-413
 ZFCAP MISC command OPR-GDE-419
 ZFRST CLEAR command OPR-GDE-571
 ZFRST KPT command OPR-GDE-573
 ZIMAG KEYPT command OPR-GDE-627,
 OPR-GDE-629
 ZKPTR command OPR-GDE-673
 ZMIGR command OPR-GDE-780
 keypointable global records INS-PRM-306
 keypointing CON-STR-8
 keypointing global records INS-PRM-248,
 INS-PRM-260
 keypoints APP-GDE-243, APP-GDE-244,
 MSP-PRM-10
 keypoints
 application keypoint records MSP-PRM-10
 copying MSP-PRM-11
 demand keypointing MSP-PRM-10
 fallback keypointing MSP-PRM-11
 moving to the working area INS-PRM-361
 update mechanism MSP-PRM-10
 KEYRC macro GEN-MAC-198, GEN-MAC-287
 keys, access CON-STR-162
 keys, element equality CON-STR-163

- keys
 - replacing the element CLS-UGR-1190, CLS-UGR-1196
 - storing the element CLS-UGR-1192
- KEYUC macro SYS-MAC-334
- keyword parameters PSM-GDE-4
- keyword scan macro GEN-MAC-72
- keyword
 - associate system error numbers with keywords MIG-GD1-238
 - associate with regions of storage MIG-GD1-237
 - CLEAR MIG-GD1-262
 - control program table allocation MIG-GD1-262
 - create temporary keywords MIG-GD1-237
 - define MIG-GD1-237
 - predefined MIG-GD1-237
 - tape processing MIG-GD1-262
 - TPPDF MIG-GD1-262
 - use to map addresses of large storage areas MIG-GD1-238
 - VEQR MIG-GD1-262
- keywords, defining for dump content MSP-PRM-42
- kill a signal CLS-UGR-298
- kinds of test activities PDV-PRM-3
- KP (keypoint) table SYS-GEN-178
- L**
- L/C (Loosely Coupled Facility) SNA-PRM-3
- label attributes
 - DCL macro SPM-95
 - specifying SPM-95
- label, general file
 - changing OPR-GDE-65
 - displaying OPR-GDE-328
 - ZAGFL command OPR-GDE-65
 - ZDGFL command OPR-GDE-328
- LAN CLAWGR-3
- large file storage address GEN-MAC-252
- last element in a collection APP-GDE-111
- last element, pointing cursor at CLS-UGR-1153
- LCPC macro MSP-PRM-5, SYS-MAC-335
- least recently used (LRU) algorithm
 - virtual file access (VFA) tuning MIG-GD1-249
- LEAVE macro
 - description of SPM-113
 - example of SPM-113
- LEBIC macro MSP-PRM-34, SYS-MAC-337
- LEDT PDV-PRM-44
- LEID (Logical End-Point Identifier) SNA-PRM-2, SNA-PRM-6, SNA-PRM-45, SNA-PRM-46, SNA-PRM-260
- LEID (Logical End-Point Identifier)
 - value SNA-PRM-46
- LEID list report
 - description of ACF-GDE-32
 - example ACF-GDE-63
 - LEID parameter ACF-GDE-32
- LEID parameter
 - LEID list report ACF-GDE-32
 - RSC statement ACF-GDE-43
- LEID
 - device address PDV-PRM-9
- LEMIC macro SYS-MAC-340
- LEN SNA-PRM-63
- LEN environment SNA-PRM-15
- LEN mode SNA-PRM-4
- LEN mode
 - control point (CP) name
 - displaying OPR-GDE-973
 - LEN sessions
 - maximum number OPR-GDE-979
 - switching to OPR-GDE-921
 - ZNAPN command OPR-GDE-921
 - ZNKEY command OPR-GDE-973, OPR-GDE-979
- LEN sessions
 - maximum number
 - displaying OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- LEN
 - 37x5 Considerations SNA-PRM-241
- LENNETID parameter
 - SNAKEY macro ACF-GDE-16
- LET macro
 - description of SPM-114
 - example of SPM-116
- level 2 networking SNA-PRM-16
- Level Test macro GEN-MAC-289
- LEVTA macro GEN-MAC-289
- libraries of C functions APP-GDE-72
- library addresses, array of APP-GDE-65
- library function return (ISO-C) INS-PRM-61
- library functions
 - coding in assembler APP-GDE-219
 - coding in C APP-GDE-219
 - installing APP-GDE-338
 - removing APP-GDE-340
- library members
 - CSTZDF MIG-GD2-318, MIG-GD2-1307
- library names, mapping for LONGNAME support
 - PSM-GDE-25
- library ordinal display online APP-GDE-293
- library ordinals in C APP-GDE-324
- library vector APP-GDE-65
- library work space (LWS)
 - description MIG-GD2-82
- library workspace (LWS) GEN-MAC-402
- LIBVEC APP-GDE-65
- LIBVEC online display APP-GDE-294
- life of a message SYS-GEN-42
- LIFO devices SYS-GEN-54
- limited lock facility MSP-PRM-4, MSP-PRM-33
- limited lock facility (LLF) CON-STR-32, SYS-GEN-10
- limited lock facility (LLF)
 - address placement on channels MIG-GD1-280
 - capture load balancing MIG-GD1-280
 - static switch MIG-GD1-280
- line number, interchange address, terminal address (LNIATA) CON-STR-171, SNA-PRM-21, SNA-PRM-26
- line numbers, symbolic SNA-PRM-48
- line path status
 - changing OPR-GDE-66
 - displaying OPR-GDE-335

line path status *(continued)*
 ZALCT command OPR-GDE-66
 ZDLCT command OPR-GDE-335

line shutdown and restart
 restart level SYS-GEN-127
 shutdown level SYS-GEN-127

line status table (LSTB) SYS-GEN-132

line type checking SYS-MAC-383

line type suffixes SYS-MAC-384

line
 reading with fgets() CLS-UGR-150
 writing with puts() CLS-UGR-402

LINES macro SYS-GEN-131, SYS-GEN-267

link count CLS-UGR-302

link data control for CP SYS-MAC-448

link map support for C load modules
 API changes MIG-GD2-356
 architecture MIG-GD2-348
 C/C++ language MIG-GD2-348
 CINFC tags MIG-GD2-350
 commands MIG-GD2-353
 CONKC tags MIG-GD2-350
 copy members MIG-GD2-350
 database changes MIG-GD2-356
 feature changes MIG-GD2-356
 fixed file records MIG-GD2-351
 functional changes MIG-GD2-353
 functional overview MIG-GD2-348
 host system changes MIG-GD2-356
 installation validation MIG-GD2-356
 interfaces MIG-GD2-348
 link map MIG-GD2-14
 loading process MIG-GD2-355
 macros MIG-GD2-351
 migration scenarios MIG-GD2-356
 offline messages MIG-GD2-354
 online messages MIG-GD2-354
 online system load MIG-GD2-355
 operating environment requirements MIG-GD2-348
 operational changes MIG-GD2-353
 overview MIG-GD2-14, MIG-GD2-348
 performance changes MIG-GD2-355
 planning information MIG-GD2-348
 prerequisite APARs MIG-GD2-348
 publication changes MIG-GD2-355
 segments MIG-GD2-352
 SIP changes MIG-GD2-355
 storage changes MIG-GD2-355
 storage considerations MIG-GD2-355
 system equates MIG-GD2-353
 system errors MIG-GD2-354
 system generation changes MIG-GD2-355
 tuning changes MIG-GD2-355
 user exits MIG-GD2-353
 ZDMAP command APP-GDE-300

link map, C load modules PDV-PRM-110

link map
 displaying for C load modules OPR-GDE-336
 ZDMAP command OPR-GDE-336

Link to CP Routines macro SYS-MAC-169

link-label prefix
 changing SPM-9, SPM-32, SPM-55, SPM-64,
 SPM-66, SPM-79

link
 comparison CON-STR-156
 creating to a file OPR-GDE-488
 functions CLS-UGR-1405
 hard CON-STR-154
 symbolic CON-STR-155
 what is it? CON-STR-154
 why use CON-STR-154
 ZFILE In command OPR-GDE-488

Linkage SYS-MAC-1

linkage editor (LEDT) CON-STR-79

linkage editor (LEDT)
 IBM MVS object module MIG-GD1-208
 reassemble MIG-GD1-203
 reassemble for enter/back linkage MIG-GD1-228
 run considerations MIG-GD1-227
 use of the system allocator (SALO) table
 MIG-GD1-224

linkage editor
 error message PDV-PRM-44
 LEDT CON-STR-79
 Nova LEDT CON-STR-79

linkage for CP SYS-MAC-409

linkage for CP routine SYS-MAC-166

linkage for user exits SYS-MAC-506

linkage routine SYS-MAC-94

linkage
 example SYS-MAC-1

linkedit phase SPM-PRM-93

links, HPR
 activating SNA-PRM-130
 displaying
 ZNAPN command SNA-PRM-130
 maximum link size SNA-PRM-174
 XID flows SNA-PRM-130

list building GEN-MAC-56

list notification vector
 changing the number of entries DBS-REF-239
 identifying a list notification vector DBS-REF-239
 testing for an empty list DBS-REF-240
 testing whether a range of lists is empty
 DBS-REF-240

list of literals (LTOrg)
 space savings MIG-GD1-203, MIG-GD1-225

list support for segmented data MPI-PRM-20

LISTAPE output SYS-GEN-175

LISTC macro GEN-MAC-291

listing collection parts DBS-REF-214

lists, CPU SPM-PRM-24

live test APP-GDE-291

Live Test PDV-PRM-14

LKT tapes OPR-GDE-18

LLC (Logical Link Control) SNA-PRM-3, SNA-PRM-29,
 SNA-PRM-321, SNA-PRM-335

LLF attention queue SYS-MAC-218

LMONC macro SYS-MAC-344

LMSCTI parameter
 SNAKEY macro ACF-GDE-17

LMT high speed transmission SYS-MAC-446
LNIATA SPM-PRM-2
LNIATA entry location GEN-MAC-556
LNIATA validation GEN-MAC-333
LNIATA(CD)
 device address PDV-PRM-9
LNIATA
 device address PDV-PRM-8
Load and Shift SS/SSU ID macro SYS-MAC-337
load balancing for paths MPI-PRM-5
load balancing
 capture and restore GIM-29
 communications control CON-STR-180
 file capture CON-STR-145
load certificates from a file
 SSL API function, SSL_load_client_CA_file
 CLAWGR-316
load mode number INS-PRM-302
load module SNA-PRM-11
load PSW instruction (LPSW) CON-STR-36
load the certificate authorities (CAs)
 SSL API function, SSL_CTX_load_verify_locations
 CLAWGR-283
load the certificate for an SSL session to use in a
specific context
 SSL API function, SSL_CTX_use_certificate_file
 CLAWGR-298
load the certificate for use with an SSL session
 SSL API function, SSL_use_certificate_file
 CLAWGR-330
load the chain of certificates for an SSL session to use
in a specific context
 SSL API function,
 SSL_CTX_use_certificate_chain_file
 CLAWGR-296
load the private key for an SSL session to use in a
specific context
 SSL API function, SSL_CTX_use_PrivateKey_file
 CLAWGR-300
load the private key for use with an SSL session
 SSL API function, SSL_use_PrivateKey_file
 CLAWGR-332
load the RSA private key for an SSL session to use in a
specific context
 SSL API function, SSL_CTX_use_RSAPrivateKey_file
 CLAWGR-302
load the RSA private key for use with an SSL session
 SSL API function, SSL_use_RSAPrivateKey_file
 CLAWGR-333
load
 balancing
 capture MIG-GD1-280
 capture and restore MIG-GD1-279
 resource requirements MIG-GD1-280
 deck
 changes to cross-subsystem services definition
 table (CGOT) MIG-GD1-217
 for E-type loader (OLDR) MIG-GD1-225
 process
 3590 support MIG-GD2-292
load (*continued*)
 real address
 considerations MIG-GD1-306
Loader Control cards
 Call General File Keypoint card INS-PRM-327
 Call Keypoint card INS-PRM-350
 Call Online Keypoint card INS-PRM-329
 Call Program card INS-PRM-332, INS-PRM-352,
 INS-PRM-366
 CC card INS-PRM-326
 Comment card INS-PRM-326
 ELDR Clear card INS-PRM-330, INS-PRM-348
 Image Clear card INS-PRM-326
 LDT card INS-PRM-337, INS-PRM-357
 Load ACPL card INS-PRM-332, INS-PRM-353
 Load AP card INS-PRM-332, INS-PRM-352
 Load Control Program card INS-PRM-328,
 INS-PRM-349
 Load CTKX card INS-PRM-327, INS-PRM-349
 Load FCTB card INS-PRM-333, INS-PRM-354
 Load ICDF card INS-PRM-333, INS-PRM-353
 Load IPAT card INS-PRM-328, INS-PRM-349
 Load IPLA card INS-PRM-335, INS-PRM-355
 Load IPLB card INS-PRM-336, INS-PRM-356
 Load Keypoint card INS-PRM-329, INS-PRM-349
 Load OPL card INS-PRM-331, INS-PRM-351
 Load PARS card INS-PRM-351
 Load PARS Card INS-PRM-331
 Load RIAT card INS-PRM-336, INS-PRM-356
 Load SIGT card INS-PRM-334, INS-PRM-354
 Load USR1 card INS-PRM-335, INS-PRM-355
 Load USR2 card INS-PRM-335, INS-PRM-355
 Loadset card INS-PRM-366
 Patch cards INS-PRM-367
 Patch Keypoint card INS-PRM-351
 PROG-MOD-BASE Clear card INS-PRM-330,
 INS-PRM-347
 Program Allocation Table card INS-PRM-365
 Subsystem ID card INS-PRM-348, INS-PRM-365
 System Allocator card INS-PRM-348, INS-PRM-366
loader general file CON-STR-9, CON-STR-79,
SYS-GEN-18
loader general file
 offline segment SYS-GEN-19
loaders GIM-24
loaders enhancement for the TPF Assembler Debugger
for VisualAge Client
 architecture MIG-GD2-881
 C/C++ language MIG-GD2-882
 commands MIG-GD2-888
 copy members MIG-GD2-885
 fixed file records MIG-GD2-885
 functional changes MIG-GD2-887
 functional overview MIG-GD2-881
 interfaces MIG-GD2-881
 loading process MIG-GD2-889
 macros MIG-GD2-885
 migration scenarios MIG-GD2-890
 offline messages MIG-GD2-888
 online messages MIG-GD2-888
 online system load MIG-GD2-889

loaders enhancement for the TPF Assembler Debugger for VisualAge Client (*continued*)

- operational changes MIG-GD2-887
- overview MIG-GD2-881
- prerequisite APARs MIG-GD2-881
- publication changes MIG-GD2-890
- storage changes MIG-GD2-889
- storage considerations MIG-GD2-889
- system errors MIG-GD2-888
- user exits MIG-GD2-887

loaders

- general information INS-PRM-321

loading data to the TPF system CON-STR-149

loading E-type programs INS-PRM-362, INS-PRM-367

loads certificates from a file and places the issuer name of each certificate in a CTX structure

- SSL API function,
 - SSL_CTX_load_and_set_client_CA_list
 - CLAWGR-282

loads certificates from a file and puts the name of each certificate in the SSL structure

- SSL API function, SSL_load_and_set_client_CA_list
- CLAWGR-315

loadset

- accept MIG-GD1-78
- accepting OPR-GDE-1058
- activate MIG-GD1-78
- activating OPR-GDE-1060
- add programs to a loadset MIG-GD1-79
- alter E-type loader
 - rules MIG-GD1-79
 - values MIG-GD1-79
- deactivate MIG-GD1-79
- deactivating OPR-GDE-1069
- definition MIG-GD1-225
- delete MIG-GD1-79
- deleting OPR-GDE-1071
- description GIM-24
- directory
 - E-type loader (OLDR) MIG-GD1-226
- display E-type loader information MIG-GD1-79
- excluding programs from OPR-GDE-1076
- how to load MIG-GD1-79
- loading OPR-GDE-1078
- manipulation MIG-GD1-79
- reincluding programs in OPR-GDE-1081
- remove programs from a loadset MIG-GD1-79
- ZOLDR ACCEPT command OPR-GDE-1058
- ZOLDR ACTIVATE command OPR-GDE-1060
- ZOLDR DEACTIVATE command OPR-GDE-1069
- ZOLDR DELETE command OPR-GDE-1071
- ZOLDR EXCLUDE command OPR-GDE-1076
- ZOLDR LOAD command OPR-GDE-1078
- ZOLDR REINCLUDE command OPR-GDE-1081

loadsets

- E-type loader PDV-PRM-136
- use for controlling traces for C function trace
- PDV-PRM-136

local definition of remote queues, TPF MQSeries

- APP-GDE-82

local Internet Protocol (IP) addresses

- changing OPR-GDE-1398
- current value
 - displaying OPR-GDE-973
- defining OPR-GDE-1402
- deleting OPR-GDE-1404
- displaying OPR-GDE-1406
- ZNKEY command OPR-GDE-973
- ZTTCP CHANGE command OPR-GDE-1398
- ZTTCP DEFINE command OPR-GDE-1402
- ZTTCP DELETE command OPR-GDE-1404
- ZTTCP DISPLAY command OPR-GDE-1406

local queue manager CON-STR-184

local queue manager support, TPF MQSeries

- APP-GDE-80

local resources

- defining ACF-GDE-34, ACF-GDE-36

local sockets CLAWGR-82

local standard time (LST) clock

- changing OPR-GDE-90
- displaying OPR-GDE-387
- ZATIM command OPR-GDE-90
- ZDTIM command OPR-GDE-387

local terminal message SYS-MAC-422

locale, C language

- description of APP-GDE-73

locale, the C language

- setlocale function APP-GDE-302
- creating new APP-GDE-313
- description of APP-GDE-302

locate terminal entry CLS-UGR-691

locate terminal entry macro GEN-MAC-556

locate terminal entry with extended options

- CLS-UGR-692

locating a data event control block (DECB)

- CLS-UGR-578

locating and accessing elements APP-GDE-110

locating and accessing elements

- using cursors APP-GDE-110
- without using cursors APP-GDE-108

locating data for a collection DBS-REF-218

locating records in a StructureDasd object

- DBS-REF-183

locating the collection control record DBS-REF-214

locating the key and pointing the cursor at its element

- CLS-UGR-1155

locating the structure object DBS-REF-218

lock CON-STR-23

Lock a Resource macro SYS-MAC-56

lock a VFA exclusive lock SYS-MAC-55

lock a VFA shared lock SYS-MAC-55

Lock a Virtual File Access (VFA) Shared Lock or Exclusive Lock macro SYS-MAC-55

Lock Control Block Area macro SYS-MAC-304

lock entry management interface CLS-UGR-585, CLS-UGR-612

Lock Entry Management Interface macro

- SYS-MAC-340

lock format

- for coupling facility support DBS-REF-249

lock identity CON-STR-32

- Lock in Storage macro GEN-MAC-254
- lock indicator CON-STR-29
- lock management SYS-MAC-219
- lock names
 - deleting OPR-GDE-1214
 - displaying OPR-GDE-1216
 - ZRHLD DELETE command OPR-GDE-1214
 - ZRHLD DISPLAY command OPR-GDE-1216
- lock release on WGTA entry SYS-MAC-418
- Lock resource SYS-MAC-214
- lock, on a collection APP-GDE-116, DBS-REF-142
- lock, on a TPFCS collection CON-STR-165
- lock
 - allocation
 - displaying OPR-GDE-167
 - specifying OPR-GDE-164
 - and access synchronizable TPF global field or record CLS-UGR-280
 - application lock CON-STR-47
 - processor lock CON-STR-44
 - program in core CLS-UGR-265
 - release storage GEN-MAC-331
 - resource CLS-UGR-305
 - spin lock CON-STR-46
 - ZBUFC ALLOCATE OPR-GDE-164
 - ZBUFC ALLOCATE DISPLAY OPR-GDE-167
- locked keyboard SNA-PRM-27
- locked program exit SYS-MAC-219
- locking GIM-9
- locking collections, using cursors APP-GDE-115
- locking cursor CLS-UGR-1131
- locking cursors APP-GDE-116, CON-STR-165, DBS-REF-142
- locking out terminals APP-GDE-48
- locking status
 - record attribute
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
- lockout from fields APP-GDE-249
- Lockword update SYS-MAC-214
- LODIC GEN-MAC-294
- LODIC macro GEN-MAC-294
- LODIC Macro (UCCLODC) INS-PRM-62
- log an error for CLAW SYS-MAC-477
- log collection CON-STR-163, DBS-REF-136
- LOG directive APP-GDE-174, CLAWGR-240
- log files CLAWGR-245
- log files
 - offloading CLAWGR-251
- log manager DBS-REF-125
- log processor APP-GDE-41, CON-STR-172, CON-STR-178, SYS-GEN-145
- log processor
 - security levels SYS-GEN-145
- log takeover DBS-REF-128
- log
 - closing CLS-UGR-48
 - opening CLS-UGR-386
 - sending a message to CLS-UGR-523
- LOGCAP macro SYS-GEN-269
- logging CON-STR-104, CON-STR-189, DBS-REF-97
- logging function
 - for selective file trace PDV-PRM-66
- logging onto an application SNA-PRM-22
- logging rules CLAWGR-246
- logging status
 - record attribute
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
- logging tape DBS-REF-98
- logging
 - /tmp/tftp.log APP-GDE-174
 - LOG directive APP-GDE-174
 - syslog daemon APP-GDE-175
 - TFTP log APP-GDE-174
 - TFTP transmissions APP-GDE-174
- LOGI command OPR-GDE-30
- logical blocks
 - types
 - logical ECB-unique working storage (LFRAME) MIG-GD1-312
 - logical entry control block (LECB) MIG-GD1-312
 - logical I/O block (LIOB) MIG-GD1-312
 - logical shared working storage (LCOMMON) MIG-GD1-312
 - logical system work block (LSWB) MIG-GD1-312
- logical device type CON-STR-102
- logical device type
 - DEVA CON-STR-102
 - DEVB CON-STR-102
 - DEVC CON-STR-102
 - DEVD CON-STR-102
- logical end identifiers SPM-PRM-3
- logical end-point identifier (LEID) CON-STR-172
- Logical End-Point Identifier (LEID) SNA-PRM-2, SNA-PRM-6, SNA-PRM-45, SNA-PRM-46, SNA-PRM-260
- logical end-point identifier (LEID)
 - converting OPR-GDE-943
 - new application CON-STR-172
 - old application CON-STR-172
 - ZNCVT command OPR-GDE-943
- Logical End-Point Identifier (LEID)
 - value SNA-PRM-46
- logical end-point identifier
 - duplicate list ACF-GDE-32
 - list report ACF-GDE-32
- logical files SYS-GEN-58
- Logical Link Control (LLC) SNA-PRM-3, SNA-PRM-29, SNA-PRM-321
- logical link on CLAW device, open request CLAWGR-390
- logical link, remove from adapter CLAWGR-393
- logical link, send message on CLAWGR-403
- logical links, query status CLAWGR-400
- logical objects, physically represented in DASD DBS-REF-167
- logical path MPI-PRM-4

- logical record (LREC)
 - testing for SPM-19
- logical record cache and CF cache support
 - CON-STR-50
- logical record cache and coupling facility (CF) cache support
 - API changes MIG-GD2-904
 - architecture MIG-GD2-895
 - C/C++ language MIG-GD2-895
 - CINFC tags MIG-GD2-898
 - commands MIG-GD2-901
 - CONKC tags MIG-GD2-898
 - copy members MIG-GD2-898
 - database changes MIG-GD2-904
 - fallback and coexistence MIG-GD2-906
 - feature changes MIG-GD2-905
 - fixed file records MIG-GD2-899
 - functional changes MIG-GD2-901
 - functional overview MIG-GD2-894
 - host system changes MIG-GD2-904
 - installation validation MIG-GD2-905
 - interfaces MIG-GD2-895
 - loading process MIG-GD2-903
 - macros MIG-GD2-899
 - migration scenarios MIG-GD2-905
 - offline messages MIG-GD2-902
 - online messages MIG-GD2-902
 - online system load MIG-GD2-904
 - operating environment requirements MIG-GD2-895
 - operational changes MIG-GD2-901
 - overview MIG-GD2-894
 - performance changes MIG-GD2-903
 - planning information MIG-GD2-895
 - prerequisite APARs MIG-GD2-894
 - publication changes MIG-GD2-904
 - segments MIG-GD2-900
 - SIP changes MIG-GD2-903
 - storage changes MIG-GD2-903
 - storage considerations MIG-GD2-903
 - system equates MIG-GD2-901
 - system errors MIG-GD2-902
 - system generation changes MIG-GD2-903
 - tuning changes MIG-GD2-903
 - user exits MIG-GD2-901
- logical record cache names PSM-GDE-23
- logical record cache summary report SPM-PRM-29
- logical record cache support CON-STR-50, CON-STR-51
- logical record caching
 - deleteCache function APP-GDE-131
 - deleteCacheEntry function APP-GDE-129
 - flushCache function APP-GDE-130
 - newCache function APP-GDE-120
 - readCacheEntry function APP-GDE-124
 - updateCacheEntry function APP-GDE-125, APP-GDE-127
 - adding an entry to a logical record cache APP-GDE-125
 - cache name APP-GDE-121
 - cacheToken value APP-GDE-122
 - castOutTime value APP-GDE-123
- logical record caching (*continued*)
 - CF cache structure APP-GDE-119
 - creating a logical record cache APP-GDE-120
 - deleting a logical record cache APP-GDE-131
 - deleting an entry from a logical record cache APP-GDE-129
 - flushing entries from a logical record cache APP-GDE-130
 - hash table APP-GDE-121
 - logical record cache APP-GDE-119
 - overview APP-GDE-119
 - processor shared caches APP-GDE-122
 - processor unique caches APP-GDE-122
 - reading an entry from a logical record cache APP-GDE-124
 - system heap APP-GDE-121
 - updating an entry in a logical record cache APP-GDE-127
- logical separation of data CON-STR-98, CON-STR-129
- logical separation of data
 - relation to subsystem user (SSU) CON-STR-98
 - subsystem user (SSU) CON-STR-129
- logical storage block CON-STR-74
- logical storage
 - changes MIG-GD1-213
 - use of
 - dynamic address translation (DAT) facility MIG-GD1-213
 - low address protection MIG-GD1-213
- logical unit SPM-PRM-75
- logical unit (LU) CON-STR-172, SNA-PRM-19
- logical unit (LU) blocking package
 - queued output data
 - transmitting OPR-GDE-977
 - ZNKEY command OPR-GDE-977
- logical unit (LU) identification and control SYS-GEN-145
- logical unit (LU)
 - 3271
 - special processing SNA-PRM-250
 - activating OPR-GDE-964
 - adjacent link station (ALS) name
 - displaying OPR-GDE-946
 - channel-to-channel (CTC) name
 - displaying OPR-GDE-946
 - class
 - displaying OPR-GDE-946
 - contention status
 - displaying OPR-GDE-946
 - control point (CP) name
 - displaying OPR-GDE-946
 - cross-domain resource manager (CDRM) name
 - displaying OPR-GDE-946
 - deactivating OPR-GDE-969
 - defining OPR-GDE-1002
 - deleting OPR-GDE-1002
 - description MIG-GD1-251
 - display information about MIG-GD1-76
 - FM header data
 - displaying OPR-GDE-974
 - list of CCB IDs MIG-GD1-75

logical unit (LU) *(continued)*

- mode name
 - displaying OPR-GDE-946, OPR-GDE-1038
- name
 - converting OPR-GDE-943
 - displaying OPR-GDE-946
- naming conventions for SNA communication
 - MIG-GD1-226
- NCB directory record
 - displaying OPR-GDE-989
 - increasing number defined OPR-GDE-995
 - reconciling OPR-GDE-992
 - reorganizing OPR-GDE-995
 - returning OPR-GDE-992
- NCB records
 - displaying OPR-GDE-989
 - initializing OPR-GDE-987
 - reconciling OPR-GDE-992
 - returning OPR-GDE-992
- network command status table
 - displaying OPR-GDE-997
- network control program (NCP) name
 - displaying OPR-GDE-946
- network identifier
 - displaying OPR-GDE-946
- network topology
 - displaying OPR-GDE-921
- OMT messages
 - resending OPR-GDE-1022
- OMT queue
 - purging OPR-GDE-1021
- path information unit (PIU)
 - tracing OPR-GDE-1052
- primary logical unit (PLU)
 - displaying OPR-GDE-946
- procedure correlation identifier (PCID)
 - displaying OPR-GDE-946
- remote TPF/APPC LU MIG-GD1-76
- resource ID
 - displaying OPR-GDE-958
- RNH tables
 - displaying OPR-GDE-958
- RNHET address
 - displaying OPR-GDE-958
- RNHPT address
 - displaying OPR-GDE-958
- RTP connection
 - displaying OPR-GDE-946
- RVT address
 - displaying OPR-GDE-958
- RVT entry
 - displaying OPR-GDE-1038
 - initializing OPR-GDE-1042
- RVT termination list
 - displaying OPR-GDE-958
 - recycle time OPR-GDE-974
- scratch pad area (SPA) records
 - initializing OPR-GDE-1051
- send unsolicited system messages to MIG-GD1-81
- sending unsolicited messages to OPR-GDE-1261

logical unit (LU) *(continued)*

- session control block identifier (SCBID)
 - displaying OPR-GDE-946
- sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
- status
 - displaying OPR-GDE-946
- system services control point (SSCP) name
 - displaying OPR-GDE-946
- TPF application
 - displaying OPR-GDE-946
- tracing OPR-GDE-1052
- type
 - displaying OPR-GDE-946
- types of CON-STR-186
- ZNAPN command OPR-GDE-921
- ZNCVT command OPR-GDE-943
- ZNDLU command OPR-GDE-946
- ZNDYN DISPLAY command OPR-GDE-958
- ZNETW ACT command OPR-GDE-964
- ZNETW INACT command OPR-GDE-969
- ZNKEY command OPR-GDE-974
- ZNNCB command OPR-GDE-987
- ZNNCB DISPLAY command OPR-GDE-989
- ZNNCB RECON command OPR-GDE-992
- ZNNCB REORG command OPR-GDE-995
- ZNNCS command OPR-GDE-997
- ZNOPL LOAD command OPR-GDE-1002
- ZNPRG command OPR-GDE-1021
- ZNRPT command OPR-GDE-1022
- ZNRVT command OPR-GDE-1038
- ZNRVT INITIALIZE command OPR-GDE-1042
- ZNSPA command OPR-GDE-1051
- ZNTRP command OPR-GDE-1052
- ZSNDU command OPR-GDE-1261

logical unit of work identifier (LUWID) AR-USG-97

logical unit of work identifier (LUWID)

- definition of AR-USG-111

logical unit of work

- definition of AR-USG-111

logical unit relationship SNA-PRM-3

Logical Unit Status (LUSTAT) SNA-PRM-281

logical unit

- activity SPM-PRM-75
- activity report SPM-PRM-74
- SNA SPM-PRM-3

logical units (LU)

- recoverable SNA-PRM-28
- type P SNA-PRM-28

logical write protect

- setting SYS-GEN-54

LOGO command OPR-GDE-30

Logon Manager (LM)

- active sessions, number of
 - notification time interval OPR-GDE-977
- operator commands
 - entering OPR-GDE-983
 - ZNKEY command OPR-GDE-977
 - ZNLM command OPR-GDE-983

Logon Manager Considerations SNA-PRM-243

- logon manager
 - CLU session MIG-GD1-253
 - description MIG-GD1-251
 - logical unit (LU) MIG-GD1-251
- LOGP command OPR-GDE-30
- LOGU command OPR-GDE-30
- long life entry detection SYS-MAC-219
- long message transmission program (LMT)
 - CON-STR-136
- long message transmitter (LMT) messages
 - repeating OPR-GDE-1220
 - ZRLMT command OPR-GDE-1220
- long message transmitter (LMT) queue
 - changing ownership of OPR-GDE-67
 - removing messages from OPR-GDE-1115
 - ZALMT command OPR-GDE-67
 - ZPLMT command OPR-GDE-1115
- long message transmitter (LMT)
 - purge queue MIG-GD1-79
 - repeat last message MIG-GD1-80
- long message transmitter package (LMT) SYS-GEN-24, SYS-GEN-151
- long running ECB CLS-UGR-553, SYS-MAC-488
- long tape interrupt
 - detect and report MIG-GD1-20
 - tape support MIG-GD1-20
- long-term pool record CON-STR-103
- long-term pool
 - return address CON-STR-128
- long-term records APP-GDE-255
- LONGC macro GEN-MAC-301
- LONGNAME support, mapping library names
 - PSM-GDE-25
- look for byte macro GEN-MAC-349
- looping program exit SYS-MAC-219
- loosely coupled AR-USG-12
- loosely coupled (LC)
 - facility APP-GDE-7
 - processors APP-GDE-243
- loosely coupled complex CON-STR-21
- loosely coupled complex
 - migration to 32-way OPR-GDE-780
 - performing an IPL OPR-GDE-3
 - ZMIGR command OPR-GDE-780
- loosely coupled considerations DBS-REF-127
- Loosely Coupled considerations for APPN
 - SNA-PRM-205
- loosely coupled considerations for TPF/APPC
 - SNA-PRM-63, SNA-PRM-103
- loosely coupled considerations for TPF/APPC
 - installation tasks for TPF/APPC SNA-PRM-105
 - loosely coupled complex example SNA-PRM-103
- loosely coupled facility GIM-7, GIM-10
- Loosely Coupled Facility (L/C) SNA-PRM-3
- loosely coupled identity table MSP-PRM-3
- loosely coupled multiprocessing CON-STR-21, CON-STR-49
- loosely coupled requirement for TPFAR AR-USG-17
- loosely coupled system
 - owning resources in MSP-PRM-34
- loosely coupled
 - caution SYS-GEN-11
 - CF considerations CON-STR-139
 - DASD record cache CON-STR-143
 - database considerations CON-STR-144
 - description SYS-GEN-10
 - external lock facility (XLF) CON-STR-32, CON-STR-49, CON-STR-109
 - find and hold macro (FINHC) CON-STR-144
 - global synchronization CON-STR-140
 - in complex CON-STR-181
 - interprocessor communication CON-STR-38
 - interprocessor communications facility (IPC)
 - CON-STR-182
 - out of complex CON-STR-181
 - processor unique record CON-STR-134
 - record holding CON-STR-109
 - shared module CON-STR-32
 - system interprocessor global table (SIGT)
 - CON-STR-141
 - VFA considerations CON-STR-139
- lost input resubmitted SNA-PRM-27
- lost interrupt OPR-GDE-26
- lost tape interrupts GIM-27
- low address protect SYS-MAC-335
- Low Address Protect Set and Restore macro
 - SYS-MAC-335
- low address protection GIM-23
- low address protection facility
 - description MIG-GD1-213
- low address protection
 - changes MIG-GD1-213, MIG-GD1-229, MIG-GD1-233
 - definition MIG-GD1-233
 - description MIG-GD1-277
 - dynamic address translation (DAT) facility
 - MIG-GD1-22
 - hardware facility MIG-GD1-277
 - modify MIG-GD1-233
 - overview MIG-GD1-14
 - turn on and off MIG-GD1-233
- low core dsect SYS-MAC-168
- low core
 - modify MIG-GD1-204, MIG-GD1-228
- low entry network (LEN) interface (T2.1) CON-STR-186
- low priority deferred entry creation GEN-MAC-120
- low priority ECB classifications SPM-PRM-25
- low storage
 - changes MIG-GD1-233
 - modify MIG-GD1-233
- low-address protection MSP-PRM-5
- low-entry networking (LEN) support
 - APPN mode
 - switching to OPR-GDE-921
 - LEN mode
 - switching to OPR-GDE-921
 - migration switch
 - APPN mode OPR-GDE-921
 - displaying current setting of OPR-GDE-921
 - LEN mode OPR-GDE-921
 - ZNAPN command OPR-GDE-921

- low-level file address compute CLS-UGR-117
- low-priority deferred entry CLS-UGR-69
- low-speed controlled telegraph (LSCT)
 - changes MIG-GD1-257
- low-speed free running (LSFR)
 - changes MIG-GD1-257
- low-speed lines
 - balancing ratios
 - alter MIG-GD1-73
 - display MIG-GD1-72
 - start MIG-GD1-74
 - stop MIG-GD1-74
 - support for MIG-GD1-72
 - support for was dropped. MIG-GD1-69
- low-water marks CLAWGR-81
- LREAD instruction SNA-PRM-26
- LU 6.2 conversation AR-USG-1, AR-USG-5, AR-USG-30, AR-USG-97
- LU 6.2 requirements for TPFAR AR-USG-11, AR-USG-14
- LU 6.2 requirements for TPFAR
 - conversational security AR-USG-19
 - MAXCCB AR-USG-15
 - MAXSCB AR-USG-15
 - MAXTPI AR-USG-14
 - NETID AR-USG-15
 - session level security AR-USG-19
 - specifying ALREADYV AR-USG-19
- LU 6.2 session
 - activate MIG-GD1-76
- LU 6.2 sessions
 - establishing AR-USG-26
- LU 6.2
 - architecture SNA-PRM-73, SNA-PRM-80
 - conversations
 - description of SNA-PRM-107
 - pipeline SNA-PRM-108
 - shared SNA-PRM-110, SNA-PRM-112
 - traditional SNA-PRM-107
 - installation SNA-PRM-60
 - prerequisites SNA-PRM-59
- LU activity
 - See logical unit
- LU names connecting to the DB2 system, specifying AR-USG-21
- Lu parameter of ZSQLD AR-USG-16
- LU registration SNA-PRM-211
- LU-LU sessions in an APPN network SNA-PRM-211
- LU-LU sessions, HPR
 - CP-CP sessions SNA-PRM-167
 - flows SNA-PRM-138
 - starting SNA-PRM-135
- LU-LU sessions
 - accepting INS-PRM-372
 - activating INS-PRM-368, INS-PRM-369, SNA-PRM-206
 - deactivating INS-PRM-370
 - deleting from the system INS-PRM-370
 - displaying information about INS-PRM-370
 - ending OPR-GDE-969
 - excluding programs INS-PRM-370

- LU-LU sessions (*continued*)
 - loading INS-PRM-368
 - reincluding programs INS-PRM-370
 - selecting an RTP connection INS-PRM-189
 - session control block (SCB)
 - displaying OPR-GDE-1043
 - initializing OPR-GDE-1045
 - maximum number OPR-GDE-978
 - starting OPR-GDE-964
 - tracing OPR-GDE-1052
 - using INS-PRM-369
 - ZNETW ACT command OPR-GDE-964
 - ZNETW INACT command OPR-GDE-969
 - ZNKEY command OPR-GDE-978
 - ZNSCB command OPR-GDE-1043
 - ZNSCB INITIALIZE command OPR-GDE-1045
 - ZNTRP command OPR-GDE-1052
- LUBLKT parameter
 - SNAKEY macro ACF-GDE-17
- LUMOD parameter
 - RSC statement ACF-GDE-42
- LUNAME field of SYSIBM.SYSUSERNAMES table AR-USG-22
- LUSTAT (Logical Unit Status) SNA-PRM-281
- LUTYPE parameter
 - LUTYPE=ANY ACF-GDE-41, ACF-GDE-53
 - RSC statement ACF-GDE-41
 - valid combinations ACF-GDE-54
- LUTYPE=ANY ACF-GDE-41, ACF-GDE-53
- LUTYPE62 SNA-PRM-66
- LUWID (logical unit of work identifier) AR-USG-97
- LUWID (logical unit of work identifier)
 - definition of AR-USG-111
- LWRITE instruction SNA-PRM-25
- LWS (library workspace) GEN-MAC-402

M

- machine check handling MSP-PRM-44
- machine check interruption handler
 - disabled wait states OPR-GDE-7
- machine check
 - checks
 - disabled wait state codes MIG-GD1-274
 - overview MIG-GD1-273
 - SVP damage MIG-GD1-273
 - SVP degradation MIG-GD1-273
 - SVP warning MIG-GD1-273
 - system recovery messages MIG-GD1-274
 - thresholds MIG-GD1-273
 - handler
 - disabled wait state MIG-GD1-274
- machine states
 - 1052 state OPR-GDE-8
 - changing OPR-GDE-8
 - CRAS state OPR-GDE-10
 - cycling among OPR-GDE-239
 - message switching state OPR-GDE-10
 - normal (NORM) state OPR-GDE-10
 - utility (UTIL) state OPR-GDE-9
 - ZCYCL command OPR-GDE-8, OPR-GDE-239
- macro authorization CON-STR-29

- macro authorization
 - considerations when issuing MIG-GD1–310
 - CRESVC macro MIG-GD1–305
 - on program allocation INS-PRM–403
 - options for program authorization MIG-GD1–220
 - specify for program allocation MIG-GD1–216
- macro calls
 - changes MIG-GD1–229
 - SERRC MIG-GD1–237
 - SNAPC MIG-GD1–237
- macro count
 - ZCNTM command OPR-GDE–224
 - ZSTOP command OPR-GDE–1310
- macro cross-reference programs
 - DCRS cross-reference generation
 - attention messages INS-PRM–384
 - control cards INS-PRM–383
 - description INS-PRM–381
 - error messages INS-PRM–385
 - JCL INS-PRM–383
 - search parameters INS-PRM–381
 - DREF report generation
 - description INS-PRM–381
 - error messages INS-PRM–386
 - report heading parameter INS-PRM–382
- macro decoder CON-STR–56
- macro decoder routine GEN-MAC–2
- macro decoder table address SYS-MAC–146
- macro decoder
 - changes MIG-GD1–231
 - enhancements GIM–28
 - fast link MIG-GD1–19
 - fast-link service MIG-GD1–231
 - system service request MIG-GD1–19
 - table changes MIG-GD1–231
- macro definitions
 - add to macro tables MIG-GD1–232
- macro format
 - file reference coding examples APP-GDE–262
- macro group definition MSP-PRM–20, SYS-MAC–179
- macro group identifier PDV-PRM–10
- macro information table entries SYS-MAC–146
- macro information table
 - access information MIG-GD1–232
 - create entries MIG-GD1–231
- macro model diagrams ACF-GDE–xii, GEN-MAC–xvii, OPR-GDE–xxv, SNA-PRM–xx, SPM–xii, SYS-GEN–xvi, SYS-MAC–xv
- macro naming conventions GEN-MAC–1
- macro options
 - summary of for C function trace PDV-PRM–134
- macro parameter errors GEN-MAC–22
- macro routine (CLXC) SNA-PRM–48
- macro service epilog GEN-MAC–399
- macro service prolog GEN-MAC–401
- macro servicing INS-PRM–8
- macro statement
 - sample GEN-MAC–6
- macro table PDV-PRM–26
- macro tables
 - add macro definitions MIG-GD1–232
- macro tables (*continued*)
 - fast-link macro table MIG-GD1–232
 - indexed macro table MIG-GD1–232
 - primary macro table MIG-GD1–232
- macro to define network SNA-PRM–11
- macro to file a record GEN-MAC–195
- macro trace GIM–26
- macro trace facility
 - changes MIG-GD1–234
 - debug MIG-GD1–293
 - description MIG-GD1–234
 - overview MIG-GD1–14, MIG-GD1–294, MIG-GD1–299
 - problem determination MIG-GD1–293
 - turn on and off MIG-GD1–234
 - types
 - collated trace MIG-GD1–294
 - ECB specific MIG-GD1–294
- macro trace
 - additional trace output OPR-GDE–1380
 - ZSTOP command OPR-GDE–1310
 - ZTRAC command OPR-GDE–1376
- macro usage conventions GEN-MAC–3
- macro use authorization SYS-MAC–14
- macro, CLASSC DBS-REF–161
- macro, FAC8C APP-GDE–251
- macro
 - ENATC PDV-PRM–133, PDV-PRM–137
 - ENATC macro PDV-PRM–135
 - ENTAC PDV-PRM–133
 - enter/back trace GIM–26
 - SETTC PDV-PRM–135
 - SETTC macro PDV-PRM–135
 - trace GIM–26
- macros APP-GDE–53
- macros supported by NEF/AX.25 SNA-PRM–48
- macros, stage II SYS-GEN–330
- macros, TPF
 - C function related CLS-UGR–3
 - converting to C or C++ structures APP-GDE–145
- macros
 - \$GCOMC MIG-GD1–278
 - \$GETBC MIG-GD1–278, MIG-GD1–309
 - \$GETCC MIG-GD1–309
 - \$GIOBC MIG-GD1–278, MIG-GD1–309
 - \$GMNBC MIG-GD1–278
 - \$GSWBC MIG-GD1–278, MIG-GD1–309, MIG-GD1–312
 - \$RCOMC MIG-GD1–278
 - \$RELBC MIG-GD1–278, MIG-GD1–309, MIG-GD1–312
 - \$RIOBC MIG-GD1–278, MIG-GD1–310
 - \$RMNBC MIG-GD1–278
 - \$RSWBC MIG-GD1–278, MIG-GD1–312
 - \$TCPLC MIG-GD1–10, MIG-GD1–20
 - ADDLC MIG-GD1–309
 - application programs
 - migration considerations MIG-GD1–313
 - ATOLC MIG-GD1–309
 - BACKC MIG-GD1–294
 - BEGIN MIG-GD1–9, MIG-GD1–203, MIG-GD1–227

macros (continued)

BLKBC MIG-GD1-309
 CALOC MIG-GD1-13, MIG-GD1-305,
 MIG-GD1-307, MIG-GD1-308
 CCPPOL MIG-GD1-259
 CINFC MIG-GD1-223
 CLHCC MIG-GD1-309
 CLHEC MIG-GD1-309
 CONFIG MIG-GD1-204
 CREDC MIG-GD1-283
 CREEC MIG-GD1-305, MIG-GD1-308
 CRESVC MIG-GD1-305
 CRETC MIG-GD1-305, MIG-GD1-308
 DATACO MIG-GD1-285
 DATACO SIP MIG-GD1-10
 DBSAC AR-USG-14, AR-USG-18, AR-USG-30
 DBSDC AR-USG-14, AR-USG-18, AR-USG-30
 DCTRIT INS-PRM-402
 Enter/Back macros MIG-GD1-285
 ENTNC MIG-GD1-217
 ENTxC MIG-GD1-294
 ESFAC MIG-GD1-245, MIG-GD1-247
 FACE MIG-GD1-248
 FACEA MIG-GD1-204
 FACEC MIG-GD1-204
 FACS MIG-GD1-248
 FACZC MIG-GD1-11, MIG-GD1-248
 fast link MIG-GD1-19
 FC0TB INS-PRM-402
 FDCTC MIG-GD1-249
 FILE MIG-GD1-10, MIG-GD1-249, MIG-GD1-313
 FIND MIG-GD1-249, MIG-GD1-313
 FINIS MIG-GD1-12
 FREEC MIG-GD1-13, MIG-GD1-308
 GENSIP INS-PRM-406, MIG-GD1-223,
 MIG-GD1-224
 GETBC MIG-GD1-309
 GETCC MIG-GD1-12, MIG-GD1-220,
 MIG-GD1-223, MIG-GD1-305, MIG-GD1-307,
 MIG-GD1-308
 GETFC MIG-GD1-12, MIG-GD1-248, MIG-GD1-312
 GETLC MIG-GD1-12, MIG-GD1-312
 GETPC MIG-GD1-12, MIG-GD1-13, MIG-GD1-226,
 MIG-GD1-306
 GETPC macro MIG-GD1-306
 GETSC MIG-GD1-12, MIG-GD1-312
 GIOBC MIG-GD1-309, MIG-GD1-312
 GLOBAL MIG-GD1-209
 GROUP MIG-GD1-283
 GSVAC MIG-GD1-312
 GSYSC MIG-GD1-13, MIG-GD2-13
 GTMBC MIG-GD1-309
 IDOTB INS-PRM-4, MIG-GD1-13
 IGATC MIG-GD1-311
 INDSN INS-PRM-401, INS-PRM-406,
 MIG-GD1-217, MIG-GD1-224
 INQRC MIG-GD1-251, MIG-GD1-254
 LMONC MIG-GD1-220
 LOCORE MIG-GD1-203, MIG-GD1-228
 LOMET MIG-GD1-300
 macro authorization MIG-GD1-310

macros (continued)

MALOC MIG-GD1-13, MIG-GD1-305,
 MIG-GD1-307, MIG-GD1-308
 MAXBC MIG-GD1-312
 MODEC MIG-GD1-306
 MONTC MIG-GD1-220, MIG-GD1-223,
 MIG-GD1-277, MIG-GD1-278
 MOVEC MIG-GD1-305, MIG-GD1-309
 MSGRTA AR-USG-12, MIG-GD1-253
 NTYPC MIG-GD1-309
 NUMBC MIG-GD1-312
 NXTBC MIG-GD1-309
 ONLFIL MIG-GD1-204
 ORDBC MIG-GD1-309
 PAL MIG-GD1-217
 PTV
 phase I MIG-GD1-300
 RALOC MIG-GD1-13, MIG-GD1-308
 RAMFIL MIG-GD1-204
 RELBC MIG-GD1-309
 RELPC MIG-GD1-306
 RIATA MIG-GD1-208
 RIOBC MIG-GD1-310, MIG-GD1-312
 RLMBC MIG-GD1-310
 ROUT-type SNA-PRM-48
 RSYSC MIG-GD1-13, MIG-GD1-17, MIG-GD2-13
 SEND-type SNA-PRM-48
 SERRC MIG-GD1-263, MIG-GD1-264,
 MIG-GD1-309
 SI0GT INS-PRM-402
 SIP CONFIG AR-USG-11
 SIP GLOBAL MIG-GD1-203
 SIP macros MIG-GD1-285
 SIPCC MIG-GD1-202, MIG-GD2-52
 SKIPT MIG-GD1-300
 SNAKEY AR-USG-13, AR-USG-14, AR-USG-15,
 MIG-GD1-302
 SNAPC MIG-GD1-263, MIG-GD1-309
 SON macros MIG-GD1-285
 SONIC MIG-GD1-245, MIG-GD1-247
 SONIC macro MIG-GD1-306
 SSDEF INS-PRM-404, MIG-GD1-204
 storage manipulation MIG-GD1-309
 STPMT MIG-GD1-300
 STPPT MIG-GD1-300
 summary MPI-PRM-7
 supervisor call (SVC) code
 displaying OPR-GDE-375
 SWISC CREATE MIG-GD1-311
 SWISC ENTER MIG-GD1-311
 SYSTC MIG-GD1-211
 SYSUG MIG-GD1-211
 TAPE MIG-GD1-10
 TPF
 CASE macro group SPM-92
 DCL macro SPM-95
 DCLREG macro SPM-98
 DO macro group SPM-99
 GOTO macro SPM-105
 IF macro group SPM-106
 introduction SPM-3

macros (*continued*)

TPF (*continued*)

LEAVE macro SPM-113
LET macro SPM-114
SELECT macro group SPM-119
SET macro SPM-122

TPFDF

macro SPM-30
#CASE macro group SPM-31
#CONB macro SPM-35
#COND macro SPM-37
#CONH macro SPM-39
#CONP macro SPM-41
#CONS macro SPM-44
#CONT macro SPM-46
#CONX macro SPM-48
#DO macro group SPM-50
#EXEC macro SPM-60
#GOTO macro SPM-63
#IF macro group SPM-65
#SPM macro SPM-68
#STPC macro SPM-71
#STPF macro SPM-72
#STPH macro SPM-74
#STPR macro SPM-76
#SUBR macro group SPM-78
conversion macros, summary of SPM-10
general information about SPM-9
indenting SPM-10
introduction SPM-3
line continuation SPM-30
UFTFTI MIG-GD1-205
UXCMC INS-PRM-4
UXGPIR INS-PRM-4
UXITC INS-PRM-1
VALBC MIG-GD1-310
VFA macros MIG-GD1-285
WTOPC MIG-GD1-21, MIG-GD1-22
ZDSVC command OPR-GDE-375

magnetic tape

file capture/restore CON-STR-145
pilot tape CON-STR-148

mail database

#MAILxx record CLAWGR-255, CLAWGR-258
access control list (ACL) CLAWGR-256
active queue CLAWGR-257
deferred queue CLAWGR-257
recoup considerations CLAWGR-258
user profile record (UPR) CLAWGR-255

mail queue

active CLAWGR-257, SPM-PRM-33
deferred CLAWGR-257, SPM-PRM-33

mailbox, managing CLAWGR-269

mailbox

creating OPR-GDE-720
deleting OPR-GDE-724
displaying OPR-GDE-728
displaying storage for OPR-GDE-730,
OPR-GDE-733
displaying users for OPR-GDE-726
renaming OPR-GDE-740

mailbox (*continued*)

setting storage limits for OPR-GDE-745
ZMAIL CREATEMAILBOX command OPR-GDE-720
ZMAIL DELETEMAILBOX command OPR-GDE-724
ZMAIL LISTACLMAILBOX OPR-GDE-726
ZMAIL LISTMAILBOX command OPR-GDE-728
ZMAIL LISTQUOTA command OPR-GDE-730
ZMAIL LISTQUOTAROOT command OPR-GDE-733
ZMAIL RENAMEMAILBOX command OPR-GDE-740
ZMAIL SETQUOTA command OPR-GDE-745
main I-stream engine CON-STR-48
main storage CON-STR-1
main storage allocation macros GEN-MAC-5
main storage allocation table ACF-GDE-3
main storage allocation table
SNAKEY macro
MSAT parameters ACF-GDE-11
main storage dump headings and labels PDV-PRM-66
main storage dump
headings PDV-PRM-112
labels PDV-PRM-112
main storage dumps GEN-MAC-357
main storage record location SYS-MAC-264
main storage records SYS-MAC-264
main storage resident programs
allocating INS-PRM-402
main storage
application program use MIG-GD1-13
blocks for E-type programs MIG-GD1-277
boundaries SYS-GEN-34
changes MIG-GD1-212, MIG-GD1-213
dumping OPR-GDE-1449
fixed storage CON-STR-73
getting and releasing GEN-MAC-5
global area SYS-GEN-153
initializing MSP-PRM-4
layout SYS-GEN-33
layout
core definition SYS-GEN-33
fixed storage (permanent core) SYS-GEN-33
memory dump SYS-GEN-33
SIP macros SYS-GEN-33
storage protection SYS-GEN-33
locking programs into MIG-GD1-203
management of CON-STR-72
manipulate
above 16 MB MIG-GD1-212
use the DAT facility MIG-GD1-212
maximum size CON-STR-26
modify
ZACOR command MIG-GD1-271
ZADCA command MIG-GD1-271
ZAPGM command MIG-GD1-271
overview MIG-GD1-13
program locking MIG-GD1-225
protection CON-STR-28
resident program allocation MIG-GD1-218
resources SYS-GEN-31
retaining module records CON-STR-137
storage layout MIG-GD1-297
use by application programs MIG-GD1-213

- main storage *(continued)*
 - working storage CON-STR-73
- main supervisor CON-STR-8
- maintaining TPFCS DBS-REF-147
- maintenance, collection
 - ZBROW ALTER command OPR-GDE-111
 - ZBROW COLLECTION command OPR-GDE-123
 - ZBROW DISPLAY command OPR-GDE-131
 - ZBROW KEYPATH command OPR-GDE-138
 - ZBROW PATH command OPR-GDE-145
- maintenance, pool files DBS-REF-23
- major device number CLS-UGR-331, CLS-UGR-1412
- make a directory CLS-UGR-326
- make a FIFO special file CLS-UGR-328
- malloc blocks AR-USG-30
- malloc
 - heap storage AR-USG-14
- MALOC allocation changes GEN-MAC-314
- MALOC macro GEN-MAC-303
- MALOC macro
 - get contiguous pieces of storage MIG-GD1-307
- manage recoup index information
 - ZBROW RECOUP command OPR-GDE-158
- management functions, pool files DBS-REF-27
- Management Information Base (MIB)
 - description with SNMP CLAWGR-85, CLAWGR-90
 - displaying OPR-GDE-1263
 - enterprise-specific, SNMP CLAWGR-93
 - protocol groups with SNMP CLAWGR-90
 - variables table CLAWGR-423
 - ZSNMP command OPR-GDE-1263
- management
 - main storage CON-STR-72
- manager validation, SNMP INS-PRM-203
- managing data event control blocks GEN-MAC-145
- managing TPFAR continuous data collection
 - ZCDCO command OPR-GDE-190
- manipulate
 - demand counter MIG-GD1-306
 - program demand counter MIG-GD1-306
- manual dump MSP-PRM-40
- manual reconstruction DBS-REF-157
- map macro tape file (MRT)
 - loading map records from OPR-GDE-68
- map SSID DBS-REF-49
- mapped conversation support, TPF/APPC
 - SNA-PRM-71
- mapping CON-STR-118
- mapping address parts CLAWGR-120
- mapping library names and LONGNAME support
 - PSM-GDE-25
- Mapping of Airline Traffic over Internet Protocol (MATIP)
 - enhancements *(continued)*
 - API changes MIG-GD2-686
 - architecture MIG-GD2-679
 - C/C++ language MIG-GD2-680
 - CINFC tags MIG-GD2-682
 - commands MIG-GD2-684
 - CONKC tags MIG-GD2-681
 - copy members MIG-GD2-682
 - database changes MIG-GD2-686
 - Mapping of Airline Traffic over Internet Protocol (MATIP)
 - enhancements *(continued)*
 - feature changes MIG-GD2-686
 - fixed file records MIG-GD2-682
 - functional changes MIG-GD2-684
 - functional overview MIG-GD2-679
 - host system changes MIG-GD2-686
 - installation validation MIG-GD2-686
 - interfaces MIG-GD2-679
 - loading process MIG-GD2-685
 - macros MIG-GD2-682
 - migration scenarios MIG-GD2-686
 - offline messages MIG-GD2-684
 - online messages MIG-GD2-684
 - online system load MIG-GD2-685
 - operating environment requirements MIG-GD2-679
 - operational changes MIG-GD2-684
 - overview MIG-GD2-679
 - performance changes MIG-GD2-685
 - planning information MIG-GD2-679
 - prerequisite APARs MIG-GD2-679
 - publication changes MIG-GD2-686
 - segments MIG-GD2-683
 - SIP changes MIG-GD2-685
 - storage changes MIG-GD2-685
 - storage considerations MIG-GD2-685
 - system equates MIG-GD2-683
 - system errors MIG-GD2-684
 - system generation changes MIG-GD2-685
 - tuning changes MIG-GD2-685
 - user exits MIG-GD2-683
 - Mapping of Airline Traffic over Internet Protocol (MATIP)
 - API changes MIG-GD2-563
 - architecture MIG-GD2-554
 - C/C++ language MIG-GD2-555
 - CINFC tags MIG-GD2-558
 - commands MIG-GD2-561
 - CONKC tags MIG-GD2-558
 - copy members MIG-GD2-558
 - database changes MIG-GD2-563
 - feature changes MIG-GD2-563
 - fixed file records MIG-GD2-558
 - functional changes MIG-GD2-561
 - functional overview MIG-GD2-554
 - host system changes MIG-GD2-563
 - installation validation MIG-GD2-563
 - interfaces MIG-GD2-555
 - loading process MIG-GD2-562
 - macros MIG-GD2-558
 - maximum number of MATIP Agent Set Control Units (ASCU)
 - changing OPR-GDE-978
 - displaying OPR-GDE-978
 - maximum number of MATIP sessions
 - changing OPR-GDE-978
 - displaying OPR-GDE-978
 - migration scenarios MIG-GD2-563
 - offline messages MIG-GD2-561
 - online messages MIG-GD2-561
 - online system load MIG-GD2-563
 - operating environment requirements MIG-GD2-555

Mapping of Airline Traffic over Internet Protocol (MATIP) *(continued)*

- operational changes MIG-GD2-561
- overview MIG-GD2-15, MIG-GD2-554
- performance changes MIG-GD2-562
- planning information MIG-GD2-555
- prerequisite APARs MIG-GD2-554
- publication changes MIG-GD2-563
- segments MIG-GD2-560
- SIP changes MIG-GD2-562
- special messages MIG-GD2-561
- storage changes MIG-GD2-562
- storage considerations MIG-GD2-562
- system equates MIG-GD2-560
- system errors MIG-GD2-561
- system generation changes MIG-GD2-562
- tuning changes MIG-GD2-562
- user exits MIG-GD2-560
- ZMATP command OPR-GDE-748
- ZNKEY command OPR-GDE-978
- mapping support DCS-PRM-57, SYS-GEN-152
- mapping support package DCS-PRM-105
- mapping support package
 - description DCS-PRM-105
 - external input and output DCS-PRM-107
 - relationship to other packages DCS-PRM-107
- mapping support
 - AMSG format SNA-PRM-42
 - implementation procedures DCS-PRM-57
 - system errors DCS-PRM-85
 - user and operating procedures DCS-PRM-69
- mark event completion CLS-UGR-113
- Mark Event Completion macro GEN-MAC-306
- mark event element completion CLS-UGR-395
- master keypoint DBS-REF-91
- matching failure CLS-UGR-222
- MAXALS parameter
 - SNAKEY macro ACF-GDE-11
- MAXASCU parameter
 - SNAKEY macro ACF-GDE-19
- MAXBC macro SYS-MAC-345
- MAXBFRU parameter SNA-PRM-225
- MAXBFRU parameter
 - SNAKEY macro ACF-GDE-17
- MAXCCB SNA-PRM-61
- MAXCCB parameter of SNAKEY macro AR-USG-15
- MAXCCB parameter
 - SNAKEY macro ACF-GDE-11
- MAXCDRSC parameter
 - SNAKEY macro ACF-GDE-11
- MAXCTC parameter
 - SNAKEY macro ACF-GDE-11, ACF-GDE-21
- MAXHCT AR-USG-16
- MAXHCT parameter
 - SNAKEY macro ACF-GDE-10
- Maxhct
 - parameter of ZSQLD AR-USG-16
- MAXHCT
 - storage area for TPFAR AR-USG-13
- MAXHPRSA parameter
 - SNAKEY macro ACF-GDE-11
- maximum capture
 - changing OPR-GDE-411
 - displaying OPR-GDE-415
 - ZFCAP CHANGE command OPR-GDE-411
 - ZFCAP DISPLAY command OPR-GDE-415
- maximum existence time setting CLS-UGR-312
- maximum packet size CLAWGR-61
- maximum packet size
 - changing OPR-GDE-1398
 - ZTTCP CHANGE command OPR-GDE-1398
- maximum pages used SPM-PRM-35
- MAXIPCCW parameter
 - SNAKEY macro ACF-GDE-20
- MAXMATIP parameter
 - SNAKEY macro ACF-GDE-19
- MAXOSA parameter
 - SNAKEY macro ACF-GDE-20
- MAXPCID parameter
 - SNAKEY macro ACF-GDE-12
- MAXPRIM SNA-PRM-181
- MAXPRIM parameter
 - SNAKEY macro ACF-GDE-12
- MAXQ (ZCNIS parameter) SYS-GEN-49
- MAXRTE parameter
 - SNAKEY macro ACF-GDE-20
- MAXRTPCB parameter
 - SNAKEY macro ACF-GDE-12
- MAXRU AR-USG-28
- MAXRVT SNA-PRM-179
- MAXRVT parameter
 - SNAKEY macro ACF-GDE-12
- MAXSCB SNA-PRM-61
- MAXSCB parameter of SNAKEY macro AR-USG-15
- MAXSCB parameter
 - SNAKEY macro ACF-GDE-13
- MAXSDD AR-USG-16
- MAXSDD parameter
 - SNAKEY macro ACF-GDE-10
- MAXSDD
 - storage area for TPFAR AR-USG-13
- MAXSID parameter
 - SNAKEY macro ACF-GDE-13
- MAXSMTB AR-USG-16
- MAXSMTB parameter
 - SNAKEY macro ACF-GDE-17
- MAXSMTB
 - storage area for TPFAR AR-USG-13
- MAXSNF parameter
 - SNAKEY macro ACF-GDE-13
- MAXSOCK parameter of SNAKEY macro AR-USG-15
- MAXSOCK parameter
 - SNAKEY macro ACF-GDE-20
- MAXSRT parameter
 - SNAKEY macro ACF-GDE-13
- MAXTPI parameter of SNAKEY macro AR-USG-14
- MAXTPI parameter
 - SNAKEY macro ACF-GDE-13
- MCHR DBS-REF-11
- MCHR file address
 - buffer control area (BCA) core address
 - displaying OPR-GDE-1426

MCHR file address *(continued)*
 buffer core address
 displaying OPR-GDE-1426
 buffer type
 displaying OPR-GDE-1426
 converting to FARF file address OPR-GDE-230
 filing status
 displaying OPR-GDE-1426
 locating in VFA OPR-GDE-1426
 ZCON command OPR-GDE-230
 ZVFAC LOCATE command OPR-GDE-1426

MCHR
 address format overview MIG-GD1-8

MDBF (multiple database function) INS-PRM-250

MDBF SSID/SSUID macro SYS-MAC-122

MDBF user attribute reference request CLS-UGR-657

MDFB User Attribute Reference Request macro
 GEN-MAC-506

mean existence time SPM-PRM-86

mean pages used SPM-PRM-35

MEM option of DBRM AR-USG-35

MemFLAT object DBS-REF-174

MemHash object DBS-REF-175

MemKey object DBS-REF-177

MemList object DBS-REF-179

memory dump table SYS-MAC-289

memory dump table
 generating SYS-MAC-293

memory dumps GEN-MAC-357

memory patch decks
 building OPR-GDE-1136
 deleting OPR-GDE-1136
 running OPR-GDE-1136
 ZPTCH command OPR-GDE-1136

memory
 contiguous memory MIG-GD1-212
 ECB virtual memory (EVM) MIG-GD1-236
 getting and releasing GEN-MAC-5
 high mapped memory MIG-GD1-236
 high memory MIG-GD1-209
 key-protected INS-PRM-402
 key-protected memory MIG-GD1-219
 page-protected INS-PRM-402
 page-protected memory MIG-GD1-219
 patch decks
 maintain MIG-GD1-271
 ZPTCH command MIG-GD1-271
 real memory MIG-GD1-209
 system virtual low memory MIG-GD1-236

message block
 displaying OPR-GDE-1321
 ZSTVS DSPLY command OPR-GDE-1321

message blocking format for FTPI SNA-PRM-33

message buffering, outbound SNA-PRM-99

message card images APP-GDE-287

message collector OPR-GDE-1457

message counter
 tpf_tcpip_message_cnt CLS-UGR-635

message counters CLAWGR-112

message data analysis SPM-PRM-67

message destination
 external CON-STR-181
 in complex CON-STR-181
 local CON-STR-181
 out of complex CON-STR-181
 output message CON-STR-181

message examples, output messages PSM-GDE-6

message flow through the socket/CLAW interfaces
 inbound CLAWGR-18
 outbound CLAWGR-17

message flow
 for TPF/APPC SNA-PRM-99
 in an XALCI configuration SNA-PRM-56
 inbound SNA-PRM-5
 outbound SNA-PRM-7

message format to CRAS PSM-GDE-3

message formats
 high speed SNA-PRM-47
 specified at system initialization SNA-PRM-46

message ID uniqueness, output messages PSM-GDE-7

message identification code PSM-GDE-6

message life SYS-GEN-42

message number SNA-PRM-23

message on an active logical link, send CLAWGR-403

message origin CON-STR-171

message parameters PSM-GDE-4

message prefixing
 description of OPR-GDE-16

message processing flow overview
 inbound SNA-PRM-5
 outbound SNA-PRM-7

message processing flow user extensions
 SNA-PRM-317

message processing flow user extensions
 inbound message SNA-PRM-317
 outbound message SNA-PRM-319

Message Queue Interface (MQI) channel directory
 changing OPR-GDE-821
 defining OPR-GDE-825
 deleting OPR-GDE-829
 displaying OPR-GDE-830
 ZMQID ALTER command OPR-GDE-821
 ZMQID DEFINE command OPR-GDE-825
 ZMQID DELETE command OPR-GDE-829
 ZMQID DISPLAY command OPR-GDE-830

Message Queue Interface (MQI) Client APP-GDE-11

Message Queue Interface (MQI) client
 API changes MIG-GD2-277
 architecture MIG-GD2-268
 C/C++ language MIG-GD2-269
 channel definition MIG-GD2-268
 CINFC tags MIG-GD2-272
 commands MIG-GD2-274
 Common Programming Interface for Communications
 (CPI-C) MIG-GD2-268
 communication with MQ series MIG-GD2-268
 CONKC tags MIG-GD2-271
 copy members MIG-GD2-272
 database changes MIG-GD2-277
 debug application problems MIG-GD2-268
 feature changes MIG-GD2-277

Message Queue Interface (MQI) client *(continued)*

- fixed file records MIG-GD2-272
- functional changes MIG-GD2-274
- functional overview MIG-GD2-268
- hardware MIG-GD2-269
- host system changes MIG-GD2-276
- installation validation MIG-GD2-277
- interfaces MIG-GD2-269
- ISO-C interface MIG-GD2-268
- loading process MIG-GD2-276
- LU 6.2 sessions MIG-GD2-268, MIG-GD2-269
- macros MIG-GD2-272
- message channel agent (MCA)
 - define MIG-GD2-274
 - definition MIG-GD2-274
 - enable MIG-GD2-274
- migration scenarios MIG-GD2-277
- MQ series function MIG-GD2-268
- MQI channel directory MIG-GD2-268
- MQI channels MIG-GD2-268
- MQI trace table
 - size of OPR-GDE-979
- MQSeries applications MIG-GD2-268
- MQSeries client MIG-GD2-268
- offline messages MIG-GD2-275
- online messages MIG-GD2-275
- online system load MIG-GD2-276
- operating environment requirements MIG-GD2-268
- operational changes MIG-GD2-274
- overview MIG-GD2-15, MIG-GD2-24, MIG-GD2-268
- performance changes MIG-GD2-276
- planning information MIG-GD2-268
- prerequisite APARs MIG-GD2-268
- publication changes MIG-GD2-276
- remote MQI queue managers MIG-GD2-268
- segments MIG-GD2-274
- SIP changes MIG-GD2-276
- software (programming requirements) MIG-GD2-269
- standard message queue interface (MQI)
 - MIG-GD2-268
- storage changes MIG-GD2-276
- storage considerations MIG-GD2-276
- system equates MIG-GD2-274
- system errors MIG-GD2-275
- system generation changes MIG-GD2-276
- tuning changes MIG-GD2-276
- update SNA network definitions MIG-GD2-269
- user exits MIG-GD2-274
- ZMQID ALTER command OPR-GDE-821
- ZMQID DEFINE command OPR-GDE-825
- ZMQID DELETE command OPR-GDE-829
- ZMQID DISPLAY command OPR-GDE-830
- ZMQIT command OPR-GDE-834
- ZNKEY command OPR-GDE-979

Message Queue Interface (MQI) Series

- API changes MIG-GD2-502
- architecture MIG-GD2-483
- C language MIG-GD2-487
- CINFC tags MIG-GD2-492
- commands MIG-GD2-496
- CONKC tags MIG-GD2-492

Message Queue Interface (MQI) Series *(continued)*

- copy members MIG-GD2-492
- database changes MIG-GD2-502
- feature changes MIG-GD2-502
- fixed file records MIG-GD2-493
- functional changes MIG-GD2-495
- functional overview MIG-GD2-483
- hardware MIG-GD2-487
- host system changes MIG-GD2-502
- installation validation MIG-GD2-502
- interfaces MIG-GD2-487
- loading process MIG-GD2-501
- macros MIG-GD2-493
- migration scenarios MIG-GD2-502
- offline messages MIG-GD2-496
- online messages MIG-GD2-496
- online system load MIG-GD2-501
- operating environment requirements MIG-GD2-487
- operational changes MIG-GD2-495
- overview MIG-GD2-483
- performance changes MIG-GD2-501
- planning information MIG-GD2-487
- prerequisite APARs MIG-GD2-483
- publication changes MIG-GD2-501
- segments MIG-GD2-494
- SIP changes MIG-GD2-501
- software (programming requirements) MIG-GD2-487
- storage changes MIG-GD2-501
- storage considerations MIG-GD2-501
- system equates MIG-GD2-495
- system errors MIG-GD2-496
- system generation changes MIG-GD2-501
- tuning changes MIG-GD2-501
- user exits MIG-GD2-495

Message Queue Interface (MQI) trace table

- displaying OPR-GDE-834
- ZMQIT command OPR-GDE-834

message queuing, inbound SNA-PRM-100

message rate, weighted SPM-PRM-67

message recovery APP-GDE-46

message recovery

- ANTNME statement
 - RECVRY parameter ACF-GDE-37

message router support SYS-GEN-142

message routing CLS-UGR-441, SNA-PRM-16

message routing package DCS-PRM-109

message routing package

- application programming considerations
 - DCS-PRM-141
- compatibility with other TPF releases DCS-PRM-150
- message routing facility installation overview
 - DCS-PRM-145
- message routing system records DCS-PRM-137
- processing description DCS-PRM-112
- system operation DCS-PRM-146
- system usage terminal operations DCS-PRM-149

ZDRCT command OPR-GDE-355

ZRCBI command OPR-GDE-1145

ZROUT START command OPR-GDE-1221

ZROUT STOP command OPR-GDE-1222

message routing, overview CON-STR-170

- message stream
 - by agent SPM-PRM-77
 - by lu SPM-PRM-76
 - DDM report SPM-PRM-78
 - logical unit report SPM-PRM-75
 - output messages SPM-PRM-87
 - PTV PDV-PRM-15
 - report SPM-PRM-76
 - reports, limitations of SPM-PRM-87
 - TPF MQSeries message channel report SPM-PRM-79
 - TPF MQSeries message queue report SPM-PRM-79
- message subchannel table (MSCT)
 - description DBS-REF-248
- message summary SPM-PRM-69
- message summary report SPM-PRM-67
- message summary
 - max/min SPM-PRM-87
- message switching DCS-PRM-87
- message switching (MSW) state
 - cycling to OPR-GDE-239
 - description of OPR-GDE-10
 - ZCYCL command OPR-GDE-239
- message switching packages
 - domestic SYS-GEN-152
 - World Trade SYS-GEN-152
- message switching state MSP-PRM-6
- message switching
 - core table headers categories DCS-PRM-97
 - items to be initialized within the data records DCS-PRM-88
 - message switching global entries DCS-PRM-96
 - records to be initialized DCS-PRM-87
- message to terminal SYS-MAC-422
- message tokenization support GEN-MAC-40
- message traffic data collection SYS-MAC-24
- message traffic multiplexing SNA-PRM-33
- message transmission GEN-MAC-12
- message
 - (non-) recoverable SNA-PRM-25
 - tpf_msg CLS-UGR-619
 - collection SPM-PRM-85
 - data and control SNA-PRM-22
 - error SPM-PRM-95
 - flow through system CON-STR-63
 - high-speed SPM-PRM-22
 - input SPM-PRM-22
 - logical unit status SNA-PRM-281
 - multiple segment input SNA-PRM-22
 - overflow SNA-PRM-21
 - parsing CLS-UGR-1447
 - processing SPM-PRM-2
 - processing of CON-STR-57
 - receipt SNA-PRM-27
 - recovery and synchronization SNA-PRM-17, SNA-PRM-249
 - reduction reports
 - changes MIG-GD1-291
 - data reduction MIG-GD1-291
 - responses SNA-PRM-26
 - resubmitted SNA-PRM-21
- message (*continued*)
 - route GEN-MAC-338
 - routing facility SPM-PRM-3
 - routing
 - to CRAS console MIG-GD1-80
 - segmented SNA-PRM-26
 - send to operator GEN-MAC-559
 - sharing storage GIM-23
 - summary of flow through system CON-STR-69
 - synchronization SNA-PRM-22
 - system recovery MIG-GD1-274
 - TCP/IP SPM-PRM-22, SPM-PRM-34, SPM-PRM-78
 - unsolicited SNA-PRM-25
 - weighted SPM-PRM-2, SPM-PRM-22, SPM-PRM-83
 - weighted rate SPM-PRM-86
- messages and entries APP-GDE-3
- messages per second performance SPM-PRM-22
- messages, assembly
 - #SPM macro SPM-68
 - printing SPM-68
- messages, IPTPRT utility CLAWGR-421
- messages, unsolicited SNA-PRM-47
- messages
 - system generation SYS-GEN-349
- Messages
 - outbound messages
 - AM0SG fields SNA-PRM-262
 - PSV SNA-PRM-262
 - RCPL SNA-PRM-262
 - pacing
 - queue SNA-PRM-262
 - ROUTC SNA-PRM-262
 - undeliverable messages
 - PSV SNA-PRM-262
 - RCAT SNA-PRM-262
 - ROUTC SNA-PRM-262
 - ROUTC EXIT SNA-PRM-262
- method trace table, setting CLS-UGR-1337
- MIB retrieval INS-PRM-202
- MIB variable table CLAWGR-423
- MIB variables and SNMP CLAWGR-85, CLAWGR-92, CLAWGR-93
- middle hop routing, TPF MQSeries APP-GDE-82
- migrate a data store OPR-GDE-1098
- migrate a data store
 - from previous to current FARF version OPR-GDE-1098
 - ZOOBDB MIGRATE command OPR-GDE-1098
- migrating
 - collections CLS-UGR-1318
 - data stores CLS-UGR-1320
- migration aid
 - block checking mode GIM-28
 - file address reference format GIM-28
 - Migration Guide GIM-28
 - multiple Transaction Processing Facility images GIM-28
 - multiple Transaction Processing Facility images description GIM-28
 - fall back GIM-28

- migration aid (*continued*)
 - multiple Transaction Processing Facility images (*continued*)
 - program changes GIM-28
 - program loads GIM-28
 - VEQR(virtual equals real) GIM-28
- migration considerations
 - PUT 2 MIG-GD2-53
- migration of C functions GEN-MAC-399
- migration of TPF system code to ISO-C support
 - API changes MIG-GD2-146
 - architecture MIG-GD2-138
 - C/C++ language MIG-GD2-138
 - CINFC tags MIG-GD2-143
 - commands MIG-GD2-145
 - CONKC tags MIG-GD2-143
 - copy members MIG-GD2-143
 - database changes MIG-GD2-146
 - feature changes MIG-GD2-146
 - fixed file records MIG-GD2-143
 - functional changes MIG-GD2-145
 - functional overview MIG-GD2-138
 - host system changes MIG-GD2-146
 - installation validation MIG-GD2-146
 - interfaces MIG-GD2-138
 - loading process MIG-GD2-145
 - macros MIG-GD2-143
 - migration scenarios MIG-GD2-146
 - offline messages MIG-GD2-145
 - online messages MIG-GD2-145
 - online system load MIG-GD2-145
 - operating environment requirements MIG-GD2-138
 - operational changes MIG-GD2-145
 - overview MIG-GD2-138
 - performance changes MIG-GD2-145
 - planning information MIG-GD2-138
 - prerequisite APARs MIG-GD2-138
 - publication changes MIG-GD2-145
 - segments MIG-GD2-144
 - SIP changes MIG-GD2-145
 - storage changes MIG-GD2-145
 - storage considerations MIG-GD2-145
 - system equates MIG-GD2-145
 - system errors MIG-GD2-145
 - system generation changes MIG-GD2-145
 - tuning changes MIG-GD2-145
 - user exits MIG-GD2-145
- migration
 - address dispensing from FARF4 to FARF5 MIG-GD1-244
 - aids
 - block checking mode MIG-GD1-15
 - file address reference format (FARF) MIG-GD1-15
 - multiple TPF images MIG-GD1-15
 - overview MIG-GD1-15
 - TPF Migration Guide: Program Update Tapes MIG-GD1-15
 - VEQR mode MIG-GD1-15
 - virtual-equals-real (VEQR) mode MIG-GD1-15
 - migration (*continued*)
 - application programs
 - changes MIG-GD1-305
 - migration considerations MIG-GD1-313
 - reentrancy considerations MIG-GD1-313
 - checklist MIG-GD1-3
 - considerations for
 - application programs MIG-GD1-313, MIG-GD1-314
 - macros MIG-GD1-313
 - PUT 10 MIG-GD2-553
 - PUT 11 MIG-GD2-625
 - PUT 12 MIG-GD2-709
 - PUT 13 MIG-GD2-765
 - PUT 14 MIG-GD2-949
 - PUT 15 MIG-GD2-1033
 - PUT 16 MIG-GD2-1215
 - PUT 3 MIG-GD2-117
 - PUT 4 MIG-GD2-169
 - PUT 5 MIG-GD2-245
 - PUT 6 MIG-GD2-283
 - PUT 7 MIG-GD2-347
 - PUT 8 MIG-GD2-439
 - PUT 9 MIG-GD2-449
 - FARF3 to FARF4 MIG-GD1-242, MIG-GD1-245
 - FARF3 to FARF5 MIG-GD1-242
 - FARF4 to FARF5 MIG-GD1-242, MIG-GD1-243, MIG-GD1-246
 - file addresses MIG-GD1-242
 - generate FACE table for FARF3 to FARF4 MIG-GD1-245
 - online file recoup considerations when migrating file addresses MIG-GD1-245
 - overview of steps MIG-GD1-185, MIG-GD2-35
 - plan MIG-GD1-3
 - PUT 2
 - overview MIG-GD2-114
 - RAMFIL statement to record migration MIG-GD1-243
 - reentrancy considerations
 - application programs MIG-GD1-313
 - test MIG-GD1-293, MIG-GD1-296
 - testing GIM-28
 - tools
 - new pool support MIG-GD2-92
 - XPX MIG-GD2-92
 - minor device number CLS-UGR-331, CLS-UGR-1422
 - MIPS CON-STR-15
 - MIPS
 - relationship to message CON-STR-16
 - miscellaneous collection support
 - T02_class CLS-UGR-1346
 - T02_convertBinPIDtoEBCDIC CLS-UGR-1348
 - T02_convertEBCDICtoBinPID CLS-UGR-1350
 - T02_deletePID CLS-UGR-1352
 - T02_readOnly CLS-UGR-1076
 - T02_setClass CLS-UGR-1354
 - T02_setReadOnly CLS-UGR-1105
 - miscellaneous programming tips APP-GDE-282
 - miscellaneous SON pool functions switch SYS-MAC-373
 - mixed-byte support APP-GDE-317, AR-USG-16

- mmcchhr address conversion GEN-MAC-125
- MMCCHHR address conversion CLS-UGR-75
- mode name AR-USG-19, AR-USG-26
- Mode Name SNA-PRM-239
- mode name
 - RDB APPC mode name AR-USG-16
 - SYSLUNAMES table AR-USG-16
 - SYSMODENAME AR-USG-21
- mode of access CLS-UGR-1409
- mode of capture DBS-REF-64
- MODE parameter
 - RSC statement ACF-GDE-43
- mode selection
 - changing OPR-GDE-11
 - control program OPR-GDE-11
 - keypoint record A OPR-GDE-11
- MODE statement
 - specifying INS-PRM-401
- mode, fopen CLS-UGR-199
- mode
 - changing CLS-UGR-123, CLS-UGR-125
- MODE
 - continuous mode for data collection MIG-GD1-286
 - MODE statement
 - description MIG-GD1-218
 - format MIG-GD1-218
 - specify MIG-GD1-218
 - sampling mode for data collection MIG-GD1-286
 - virtual-equal-real (VEQR) MIG-GD1-293, MIG-GD1-296
- MODEC macro SYS-MAC-347
- models of macro invocations ACF-GDE-xii, GEN-MAC-xvii, OPR-GDE-xxv, SNA-PRM-xx, SPM-xii, SYS-GEN-xvi, SYS-MAC-xv
- modes, operation DBS-REF-41, DBS-REF-44
- modify a control record macro SYS-MAC-72
- modify a list notification vector SYS-MAC-152
- Modify Lock and I/O Interrupt Status macro SYS-MAC-214
- modify program status word mask bits CLS-UGR-325
- modify
 - PSW mask bits CLS-UGR-325
 - TPF global field or record CLS-UGR-282
- modifying and expanding applications APP-GDE-281
- modifying existing messages PSM-GDE-9
- modifying IP routing table entries CLAWGR-74
- modifying the syslog daemon configuration file CLAWGR-249
- modular programming APP-GDE-280
- module device file copy CON-STR-147
- module file status table (MFST) CON-STR-102, CON-STR-131, SYS-GEN-21
- module file status table (MFST)
 - changing OPR-GDE-69
 - displaying OPR-GDE-342, OPR-GDE-345
 - purpose in system CON-STR-110
 - symbolic device address (SDA) CON-STR-110
 - symbolic module number CON-STR-110
 - ZAMOD command OPR-GDE-69
 - ZDMFS command OPR-GDE-342
 - ZDMOD command OPR-GDE-345
- module record cache CON-STR-142
- module up and down processing, cache DBS-REF-46
- module verification table (MVT)
 - DASD paths
 - replacing OPR-GDE-1236
 - retaining OPR-GDE-1236
 - ZRSTT command OPR-GDE-1236
- module
 - capturing OPR-GDE-403
 - NCB records
 - initializing OPR-GDE-987
 - restoring OPR-GDE-566
 - scratch pad area (SPA) records
 - initializing OPR-GDE-1051
 - stop capturing OPR-GDE-408
 - ZFCAP ABORT command OPR-GDE-408
 - ZFCAP command OPR-GDE-403
 - ZFRST CAP command OPR-GDE-566
 - ZNNCB command OPR-GDE-987
 - ZNSPA command OPR-GDE-1051
- monitor call (MC) facility
 - changes MIG-GD1-232
 - decoder MIG-GD1-233
 - instruction for SNAPC, \$MONTC, and \$RECVC
 - macros MIG-GD1-231
 - instruction operands MIG-GD1-232
 - service routines MIG-GD1-233
- monitor read, write, and exception status
 - CLS-UGR-450, CLS-UGR-629
- monitor read, write, and exception status
 - socket API function, select CLAWGR-205
- monitoring queue depth, TPF MQSeries APP-GDE-83
- MONTC authorization SYS-MAC-14
- MONTC macro SYS-MAC-348
- MONWC macro SYS-MAC-349
- more information about pool file records DBS-REF-218
- Mount a Symbolic Device Address (SDA) macro SYS-MAC-356
- mount an SDA SYS-MAC-159
- mount or positioning required, TPFxd_nextVolume
 - CLS-UGR-1372
- mount or positioning required, TPFxd_open
 - CLS-UGR-1374
- movable VIPA processor deactivation INS-PRM-239
- movable VIPAs
 - and deactivation processing CLAWGR-69
 - and network traffic balancing CLAWGR-69
 - and workload balancing CLAWGR-69
 - defined CLAWGR-64
 - moving by application program CLAWGR-69
 - moving to another processor CLAWGR-68
- movable virtual IP address (VIPA) support
 - API changes MIG-GD2-921
 - architecture MIG-GD2-908
 - CINFC tags MIG-GD2-910
 - CONKC tags MIG-GD2-910
 - copy members MIG-GD2-910
 - database changes MIG-GD2-921
 - feature changes MIG-GD2-921
 - fixed file records MIG-GD2-911
 - functional changes MIG-GD2-916

- movable virtual IP address (VIPA) support *(continued)*
 - functional overview MIG-GD2-907
 - host system changes MIG-GD2-921
 - installation validation MIG-GD2-921
 - interfaces MIG-GD2-909
 - loading process MIG-GD2-920
 - macros MIG-GD2-911
 - migration scenarios MIG-GD2-921
 - offline messages MIG-GD2-916
 - online messages MIG-GD2-916
 - online system load MIG-GD2-921
 - operating environment requirements MIG-GD2-908
 - operational changes MIG-GD2-916
 - overview MIG-GD2-907
 - performance changes MIG-GD2-920
 - planning information MIG-GD2-908
 - prerequisite APARs MIG-GD2-907
 - publication changes MIG-GD2-921
 - SIP changes MIG-GD2-920
 - software (programming requirements) MIG-GD2-909
 - storage changes MIG-GD2-920
 - storage considerations MIG-GD2-920
 - system errors MIG-GD2-916
 - system generation MIG-GD2-920
 - tuning changes MIG-GD2-920
- movable virtual IP address (VIPA)
 - ZVIPA command OPR-GDE-1430
- move an Entry to another I-stream engine CON-STR-86
- move data between 2 different EVMS SYS-MAC-62
- move data between address space
 - MOVEC macro MIG-GD1-305, MIG-GD1-309
 - overview MIG-GD1-309
- move data between EVM and SVM SYS-MAC-62, SYS-MAC-350
- Move Data Between EVM and SVM macro
 - SYS-MAC-62, SYS-MAC-350
- move data
 - advantages of GIM-13
- Move program name into specified field GEN-MAC-305
- move recoup descriptors
 - ZRBKD command OPR-GDE-1141
- move
 - data between EVM and SVM CLS-UGR-616
 - data from one EVM to another EVM CLS-UGR-618
- MOVEC macro MSP-PRM-18, SYS-MAC-350
- MOVEC macro
 - move data between address spaces MIG-GD1-305, MIG-GD1-309
- movement, cursor APP-GDE-113
- moving a VIPA by application program CLAWGR-69
- moving a VIPA to another processor CLS-UGR-637, GEN-MAC-546
- moving TPF data to DB2 using TPFAR
 - advantages of AR-USG-4
 - illustration of AR-USG-4
- moving TPF data to DB2 without TPFAR
 - illustration of AR-USG-3
- moving VIPAs to another processor CLAWGR-68
- moving work between I-stream engines CON-STR-84
- MPIF SPM-PRM-37
- MPIF (Multi-Processor Interconnect Facility)
 - feature GIM-14
 - inter-processor communication GIM-29
- MPIF complex MPI-PRM-3
- MPIF IPC MIG-GD1-202, MIG-GD2-52
- MPIF parameters
 - displaying OPR-GDE-795
 - setting OPR-GDE-807
 - ZMPIF DISPLAY command OPR-GDE-795
 - ZMPIF SET command OPR-GDE-807
- MPIF path activity report SPM-PRM-37
- MPIF post-processor
 - commands
 - CANCEL MPI-PRM-30
 - COMPARE MPI-PRM-27, MPI-PRM-30
 - DEFAULT MPI-PRM-30
 - PRINT MPI-PRM-27, MPI-PRM-30
 - executing in MVS MPI-PRM-34
 - installing MPI-PRM-33
 - introduction MPI-PRM-27
 - keywords
 - BLK MPI-PRM-28
 - CPU1 MPI-PRM-29
 - CPU2 MPI-PRM-29
 - DATE MPI-PRM-28
 - DEST MPI-PRM-28
 - DUR MPI-PRM-29
 - MSG MPI-PRM-28
 - ORG MPI-PRM-28
 - PATH MPI-PRM-29
 - TIME MPI-PRM-28
 - USER MPI-PRM-28
 - message traffic MPI-PRM-27
 - MVS JCL samples MPI-PRM-35, MPI-PRM-36
 - statistics MPI-PRM-33
 - transmission time, definition MPI-PRM-33
- MPIF user MPI-PRM-3
- MPIFC macro SYS-MAC-352
- MPIFC macro
 - changes MIG-GD1-235
- MQI (Message Queue Interface) Client APP-GDE-11
- MQI trace table
 - definition MIG-GD2-268
 - initialize MIG-GD2-269
- MQITRC parameter
 - SNAKEY macro ACF-GDE-13
- MQSeries message channel report SPM-PRM-79
- MQSeries message queue report SPM-PRM-79
- MRT tapes OPR-GDE-18
- MSAT SNA-PRM-67
- MSAT1 ACF-GDE-3
- MSAT2 ACF-GDE-3
- MSAT3 ACF-GDE-3
- MSDAC SYS-MAC-356
- MSG record PDV-PRM-23, PDV-PRM-24
- MSG_OOB flag
 - out-of-band data, set for CLAWGR-121
- MSGIN macro
 - data collection SYS-MAC-24
- MSGRT macro SYS-GEN-271
- MSGRTA SNA-PRM-61

MSGRTA macro ACF-GDE-28, ACF-GDE-34,
ACF-GDE-36, AR-USG-12, SYS-GEN-272

MSPIC macro SYS-MAC-358

MSRB MPI-PRM-27

multi-path lock facility (MPLF) CON-STR-32

Multi-Processor Interconnect Facility (MPIF)
CON-STR-38, SYS-GEN-11

Multi-Processor Interconnect Facility (MPIF)
changes MIG-GD1-235
changing IPC information OPR-GDE-1253
define device MIG-GD1-75
define path MIG-GD1-75
delete device MIG-GD1-75
delete path MIG-GD1-75
display parameters MIG-GD1-75
displaying IPC information OPR-GDE-1256
hardware table record verification MIG-GD1-75
keypoint E verification MIG-GD1-75
migration MIG-GD1-202, MIG-GD2-52
overview MIG-GD1-7
path definition record verification MIG-GD1-75
request service MIG-GD1-235
set parameters MIG-GD1-75
start device MIG-GD1-75
start path MIG-GD1-75
stop device MIG-GD1-75
stop path MIG-GD1-75
support for MIG-GD1-196, MIG-GD2-46
trace path MIG-GD1-75
trace user MIG-GD1-75
ZMPIF DEFINE DEVICE command OPR-GDE-786
ZMPIF DEFINE PATH command OPR-GDE-790
ZMPIF DELETE command OPR-GDE-793
ZMPIF DISPLAY command OPR-GDE-795
ZMPIF HDW command OPR-GDE-802
ZMPIF KPE command OPR-GDE-803
ZMPIF PDR command OPR-GDE-805
ZMPIF SET command OPR-GDE-807
ZMPIF START command OPR-GDE-813
ZMPIF STOP command OPR-GDE-815
ZMPIF TRACE command OPR-GDE-817
ZSIPC ALTER command OPR-GDE-1253
ZSIPC DISPLAY command OPR-GDE-1256

Multi-Processor Interconnect Facility
See MPIF

Multi-Thread Processing SNA-PRM-250

multi-volume dump
overview MIG-GD1-15

multibyte character, wide character, and locale (MWL)
support
overview MIG-GD2-15

multipathing GIM-29

multipathing
load balancing for capture and restore MIG-GD1-279
support for MIG-GD1-186, MIG-GD2-36

Multiple Assembly/Compilation Print Program
INS-PRM-377

Multiple Assembly/Compilation Program
execution parameters INS-PRM-389
files INS-PRM-387
input INS-PRM-387

Multiple Assembly/Compilation Program (*continued*)
user considerations INS-PRM-392

multiple chained output message segments
restriction
bypassing OPR-GDE-979
ZNKEY command OPR-GDE-979

multiple database function GIM-10

multiple database function (MDBF) CON-STR-98,
CON-STR-129, INS-PRM-250, SPM-PRM-1,
SYS-GEN-9

multiple database function (MDBF) macros
GEN-MAC-24

multiple database function (MDBF)
basic subsystem (BSS) CON-STR-130
changes MIG-GD1-234
commands MIG-GD1-66, MIG-GD1-67
considerations for globals CON-STR-141
critical record filing MIG-GD1-234
DBR control record
display information MIG-GD1-66
initialize MIG-GD1-67
set up MIG-GD1-67

DBR input
restart operations MIG-GD1-66
set phase available ECB count MIG-GD1-66
start operations MIG-GD1-66

DBR output
display phase status MIG-GD1-67
restart following a tape error MIG-GD1-67
restart operations MIG-GD1-67
set phase available ECB count MIG-GD1-67
start operations MIG-GD1-67

DBR processing
abort MIG-GD1-66
bypass MIG-GD1-66

global area CON-STR-132
global record CON-STR-132
module file status table (MFST) CON-STR-131
reason to switch among subsystems and subsystem
users CON-STR-135
record ID attribute table (RIAT) CON-STR-131
reset DBR record type information MIG-GD1-67
routing control application table (RCAT)
CON-STR-131
switching among subsystems and subsystem users
CON-STR-135

multiple database function
macros MSP-PRM-34

Multiple Database Function
IPL, types of MSP-PRM-3
system definition MSP-PRM-3

multiple I-stream DASD I/O CON-STR-87

multiple I-stream DASD I/O support
API changes MIG-GD2-219
architecture MIG-GD2-213
C/C++ language MIG-GD2-213
CINFC tags MIG-GD2-214
commands MIG-GD2-218
CONKC tags MIG-GD2-214
copy members MIG-GD2-214
database changes MIG-GD2-219

- multiple I-stream DASD I/O support *(continued)*
 - feature changes MIG-GD2-219
 - fixed file records MIG-GD2-215
 - functional changes MIG-GD2-218
 - functional overview MIG-GD2-213
 - host system changes MIG-GD2-219
 - installation validation MIG-GD2-219
 - interfaces MIG-GD2-213
 - loading process MIG-GD2-219
 - macros MIG-GD2-215
 - migration scenarios MIG-GD2-220
 - offline messages MIG-GD2-218
 - online messages MIG-GD2-218
 - online system load MIG-GD2-219
 - operating environment requirements MIG-GD2-213
 - operational changes MIG-GD2-218
 - overview MIG-GD2-15, MIG-GD2-213
 - performance changes MIG-GD2-219
 - planning information MIG-GD2-213
 - prerequisite APARs MIG-GD2-213
 - publication changes MIG-GD2-219
 - segments MIG-GD2-216
 - SIP changes MIG-GD2-219
 - storage changes MIG-GD2-219
 - storage considerations MIG-GD2-219
 - system equates MIG-GD2-218
 - system errors MIG-GD2-218
 - system generation changes MIG-GD2-219
 - tuning changes MIG-GD2-219
 - user exits MIG-GD2-218
- multiple images DBS-REF-96, INS-PRM-373
- multiple images
 - image control record (ICR) MSP-PRM-1
- Multiple Line Messages PSM-GDE-8
- multiple logical units SNA-PRM-49
- Multiple module copy support
 - overview MIG-GD2-15
- multiple paths MPI-PRM-4
- multiple record file APP-GDE-242
- multiple segment input message SNA-PRM-22
- multiple TPF images MSP-PRM-1, SYS-GEN-74
- multiple TPF images
 - auxiliary loader (TLDR) MIG-GD1-266
 - description GIM-24
 - display MIG-GD1-266
 - fall back GIM-24
 - general file loader (ALDR) MIG-GD1-266
 - integrate changes MIG-GD1-265
 - keypoints MIG-GD1-267
 - maximum number of images allowed MIG-GD1-265
 - migration aid MIG-GD1-15
 - modify MIG-GD1-266
 - overview MIG-GD1-15, MIG-GD1-265
 - primary image MIG-GD1-265
 - program changes GIM-24
 - program loads GIM-24
- multiple Transaction Processing Facility images
 - description GIM-28
 - fall back GIM-28
 - program changes GIM-28
 - program loads GIM-28
- multiple-byte character sets, support of APP-GDE-304
- multiple-domain networks SNA-PRM-12
- multiplexor channel SNA-PRM-45
- multiprocessing CON-STR-14, CON-STR-21, SYS-GEN-12
- multiprocessing
 - considerations for globals CON-STR-142
 - deadlock CON-STR-31
 - disadvantage CON-STR-49
 - interprocessor communication CON-STR-38
 - loosely coupled multiprocessing CON-STR-21, CON-STR-49
 - multiprogramming CON-STR-43
 - reentrancy CON-STR-42
 - summary CON-STR-51
 - system interprocessor global table (SIGT) CON-STR-141
 - tightly coupled multiprocessing CON-STR-21, CON-STR-44
- multiprocessor environment system control CLS-UGR-387
- multiprocessor environment
 - system evolution CON-STR-42
- multiprogramming CON-STR-14, CON-STR-21, CON-STR-43
- multiprogramming
 - delay CON-STR-43
 - in support of multiprocessing CON-STR-43
 - reentrancy CON-STR-42
 - summary CON-STR-51
- multitasking functions
 - corhc CLS-UGR-49
 - coruc CLS-UGR-50
 - deqc CLS-UGR-84
 - enqc CLS-UGR-102
 - evinc CLS-UGR-108
 - evnqc CLS-UGR-109
 - evntc CLS-UGR-111
 - evnwc CLS-UGR-113
 - postc CLS-UGR-395
 - tpf_STCK CLS-UGR-634
- multithread environment APP-GDE-283
- multivolume operations GEN-MAC-21
- mutual exclusion CON-STR-22
- MVS assembly system APP-GDE-53
- MVS job APP-GDE-250
- MVS utility programs
 - ICKDSF MSP-PRM-3
- MVS/VTAM SNA-PRM-11
- MVS/VTAM
 - loading NCP SNA-PRM-201
- MVS
 - Customer Information Control System (CICS) CON-STR-6
 - general data set (GDS) CON-STR-143
 - general file CON-STR-143
 - support environment for TPF CON-STR-5

N

- N-type linkage APP-GDE-160

- N-type linkage
 - functions, calling APP-GDE-161
- NAME parameter
 - ANTNME statement ACF-GDE-36
- named pipe CON-STR-158
- named pipe, creating CLS-UGR-328
- named pipe
 - See *also* FIFO special file support
 - creating OPR-GDE-500
 - ZFILE mkfifo command OPR-GDE-500
- names for symbolic tapes OPR-GDE-18
- names of defined data definitions
 - ZOODB DISPLAY command OPR-GDE-1091
- names, returning property CLS-UGR-1043
- names
 - generic MPI-PRM-9
 - path MPI-PRM-9
 - system MPI-PRM-8
 - user MPI-PRM-8
- naming conventions GEN-MAC-1, PSM-GDE-15
- naming conventions, contents of C/C++ source files PSM-GDE-19
- naming conventions, coupling facility (CF) structures PSM-GDE-23
- naming conventions, deviations from PSM-GDE-29
- naming conventions, logical record caches PSM-GDE-23
- naming conventions, symbolic register names PSM-GDE-22
- naming conventions
 - generic names MPI-PRM-9
 - path names MPI-PRM-9
 - system names MPI-PRM-8
 - user names MPI-PRM-8
- naming of coupling facility (CF) cache structures PSM-GDE-23
- naming of coupling facility (CF) list structures PSM-GDE-23
- naming of coupling facility (CF) structures PSM-GDE-23
- naming of logical record caches PSM-GDE-23
- naming of TPF file system files PSM-GDE-22
- naming of TPF persistent collections PSM-GDE-22
- native console support (NCS) SYS-GEN-123
- native console support (NCS)
 - agent assembly area (AAA) SYS-GEN-124
 - LNIATA SYS-GEN-124
- native subchannel communications for 3705 SYS-MAC-403
- NAU validation GEN-MAC-333
- NAU
 - node vs. NAU SNA-PRM-3
- NBLKLU parameter
 - SNAKEY macro ACF-GDE-17
- NCB control record
 - description of SNA-PRM-184
 - displaying OPR-GDE-989
 - ZNNCB DISPLAY command OPR-GDE-989
- NCB directory record
 - getting ordinal number of SYS-MAC-212
 - number defined
 - displaying OPR-GDE-989
- NCB directory record (*continued*)
 - number defined (*continued*)
 - increasing OPR-GDE-995
 - ordinal number
 - displaying OPR-GDE-989
 - reconciling OPR-GDE-992
 - record type
 - displaying OPR-GDE-989
 - reorganizing OPR-GDE-995
 - switching OPR-GDE-995
 - unused
 - returning OPR-GDE-992
 - ZNNCB DISPLAY command OPR-GDE-989
 - ZNNCB RECON command OPR-GDE-992
 - ZNNCB REORG command OPR-GDE-995
- NCB directory records
 - #NCBN4 SNA-PRM-185
 - #NCBN5 SNA-PRM-185
 - current NCB directory records SNA-PRM-185
 - defining SNA-PRM-185
 - description of SNA-PRM-185
 - DHASHC macro SNA-PRM-187
 - displaying SNA-PRM-187
 - example of SNA-PRM-185
 - increasing number of SNA-PRM-188
 - NCB reconciliation function SNA-PRM-187
 - NCB reorganization function SNA-PRM-188
 - ordinal number SNA-PRM-187
 - ordinal numbers SNA-PRM-186
 - reclaiming SNA-PRM-187
 - staged NCB directory records SNA-PRM-185
- NCB initialization function
 - description of SNA-PRM-187
 - starting OPR-GDE-987
 - ZNNCB command OPR-GDE-987, SNA-PRM-187
- NCB reconciliation function
 - 381-byte long-term pool file NCB records SNA-PRM-187
 - description of SNA-PRM-187
 - NCB directory records SNA-PRM-187
 - procedure for SNA-PRM-188
 - running SNA-PRM-188
 - starting OPR-GDE-992
 - status of
 - displaying OPR-GDE-989
 - stopping OPR-GDE-992
 - ZNNCB DISPLAY command OPR-GDE-989
 - ZNNCB RECON command OPR-GDE-992, SNA-PRM-188
- NCB reorganization function
 - description of SNA-PRM-188
 - ending SNA-PRM-190
 - procedure for SNA-PRM-189
 - process SNA-PRM-188
 - running SNA-PRM-189
 - starting OPR-GDE-995
 - status of
 - displaying OPR-GDE-989
 - stopping OPR-GDE-995
 - ZNNCB DISPLAY command OPR-GDE-989

NCB reorganization function (*continued*)
 ZNNCB REORG command OPR-GDE-995,
 SNA-PRM-190

NCB
 See node control block (NCB)

NCE identifier SNA-PRM-129

NCE identifiers SNA-PRM-138

NCP Packet Switching Interface (NPSI) SNA-PRM-2,
 SNA-PRM-3, SNA-PRM-30, SNA-PRM-32

NCP resource
 define MIG-GD1-252, MIG-GD1-254

NCP resources
 defining ACF-GDE-45, ACF-GDE-47

NCP Slowdown SNA-PRM-277

NCP statement
 description of ACF-GDE-47
 example ACF-GDE-62
 ncpname parameter ACF-GDE-48
 SUBAREA parameter ACF-GDE-48
 VRILTO parameter ACF-GDE-49
 VRTO parameter ACF-GDE-48
 WINSIZE parameter ACF-GDE-48

ncpname parameter
 NCP statement ACF-GDE-48

NDEBUG
 access CLS-UGR-9

NEF ACF-GDE-35, SPM-PRM-3

NEF (Network Extension Facility) SNA-PRM-2,
 SNA-PRM-45

NEF (Network Extension Facility)
 application logical unit
 not in RCAT SNA-PRM-46
 editing by NEF SNA-PRM-47
 multiple host support SNA-PRM-49
 transaction analysis (TA) program SNA-PRM-49
 translation SNA-PRM-47

NEFx terminology SNA-PRM-46

negative responses
 sense message
 time interval OPR-GDE-981
 ZNKEY command OPR-GDE-981

nested commit scope APP-GDE-90

nested commit scope
 commit rules APP-GDE-95
 rollback rule APP-GDE-96
 visibility rule APP-GDE-97

nesting commit scopes APP-GDE-90

nesting level SPM-10

nesting levels PDV-PRM-142

nesting programs APP-GDE-228

NETID parameter of SNAKEY macro AR-USG-15

NETID parameter
 NETID=ANY ACF-GDE-40
 RSCDEF statement ACF-GDE-40
 SNAKEY macro ACF-GDE-17

NETID=ANY ACF-GDE-40

NETWK macro SYS-GEN-279

network SNA-PRM-1

network address table (NAT)
 changes MIG-GD1-252

network address
 converting OPR-GDE-943
 network command status table
 displaying OPR-GDE-997
 ZNCVT command OPR-GDE-943
 ZNNCS command OPR-GDE-997

network addressable unit (NAU) SNA-PRM-3

network addressable unit (NAU)
 activate MIG-GD1-76
 activating OPR-GDE-964
 changes MIG-GD1-251, MIG-GD1-254
 control point (CP)
 primary, secondary SNA-PRM-3
 deactivate MIG-GD1-76
 deactivating OPR-GDE-969
 logical unit (LU) SNA-PRM-3
 physical unit (PU) SNA-PRM-3
 scratch pad area (SPA) records
 initializing OPR-GDE-1051
 system service control point (SSCP) SNA-PRM-3
 ZNETW ACT command OPR-GDE-964
 ZNETW INACT command OPR-GDE-969
 ZNSPA command OPR-GDE-1051

network command status table (NCST)
 display MIG-GD1-77
 displaying OPR-GDE-997
 ZNNCS command OPR-GDE-997

network connection endpoint (NCE) identifiers
 SNA-PRM-129, SNA-PRM-138

network control commands
 displaying OPR-GDE-1012
 tracing OPR-GDE-1052
 ZNPIU command OPR-GDE-1012
 ZNTRP command OPR-GDE-1052

network control program MSP-PRM-47

network control program (NCP) CON-STR-169,
 CON-STR-175, SPM-PRM-3

network control program (NCP) resource
 activating OPR-GDE-964
 active, list of
 displaying OPR-GDE-985
 adding OPR-GDE-953
 changing OPR-GDE-956
 creating OPR-GDE-953
 deactivating OPR-GDE-969
 defining OPR-GDE-953, OPR-GDE-1002
 deleting OPR-GDE-1002
 explicit routing information
 displaying OPR-GDE-972
 list of
 displaying OPR-GDE-968
 logical unit (LU)
 displaying OPR-GDE-946
 network command status table
 displaying OPR-GDE-997
 network control commands
 displaying OPR-GDE-1012
 tracing OPR-GDE-1052

node name
 displaying OPR-GDE-985

network control program (NCP) resource *(continued)*

- path information unit (PIU)
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
- polling
 - starting OPR-GDE-1019
 - stopping OPR-GDE-1020
- redefining OPR-GDE-956
- resource definitions
 - changing OPR-GDE-956
 - creating OPR-GDE-953
- resource ID
 - displaying OPR-GDE-958
- resource name
 - changing OPR-GDE-956
 - defining OPR-GDE-953
- RNH tables
 - displaying OPR-GDE-958
- RNHET address
 - displaying OPR-GDE-958
- RNHPT address
 - displaying OPR-GDE-958
- routing information
 - explicit OPR-GDE-972
 - virtual OPR-GDE-972
 - virtual pacing OPR-GDE-972
- RVT address
 - displaying OPR-GDE-958
- RVT entry
 - displaying OPR-GDE-1038
 - initializing OPR-GDE-1042
- status
 - displaying OPR-GDE-917, OPR-GDE-968
- subarea
 - changing OPR-GDE-956
 - defining OPR-GDE-953
- symbolic device address
 - displaying OPR-GDE-917, OPR-GDE-985
- tracing OPR-GDE-1052
- virtual route (VR) pacing requests
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
- virtual route (VR) pacing responses
 - common blocks required OPR-GDE-975
 - displaying OPR-GDE-1012
 - entry control blocks (ECBs) required OPR-GDE-975
 - frame blocks required OPR-GDE-976
 - input/output blocks (IOBs) required OPR-GDE-976
 - system work blocks (SWBs) required OPR-GDE-977
 - tracing OPR-GDE-1052
- virtual route (VR) sequence number
 - resynchronizing OPR-GDE-974
- virtual route input list timeout value
 - defining OPR-GDE-953
- virtual route pacing information
 - displaying OPR-GDE-972, OPR-GDE-1012
 - tracing OPR-GDE-1052

network control program (NCP) resource *(continued)*

- virtual route pacing window
 - defining OPR-GDE-953
- virtual route timeout value
 - defining OPR-GDE-953
- virtual routing information
 - displaying OPR-GDE-972
- ZNALS command OPR-GDE-917
- ZNDLU command OPR-GDE-946
- ZNDYN ADD command OPR-GDE-953
- ZNDYN CHANGE command OPR-GDE-956
- ZNDYN DISPLAY command OPR-GDE-958
- ZNETW ACT command OPR-GDE-964
- ZNETW DISPLAY command OPR-GDE-968
- ZNETW INACT command OPR-GDE-969
- ZNETW ROUTE command OPR-GDE-972
- ZNKEY command OPR-GDE-974, OPR-GDE-975, OPR-GDE-976, OPR-GDE-977
- ZNMON command OPR-GDE-985
- ZNNCS command OPR-GDE-997
- ZNOPL LOAD command OPR-GDE-1002
- ZNPIU command OPR-GDE-1012
- ZNPOL START command OPR-GDE-1019
- ZNPOL STOP command OPR-GDE-1020
- ZNRVT command OPR-GDE-1038
- ZNRVT INITIALIZE command OPR-GDE-1042
- ZNTRP command OPR-GDE-1052

network control program (NCP)

- access application program MIG-GD1-253
- changes MIG-GD1-253
- dynamic load relationship MIG-GD1-211
- modifying input deck SNA-PRM-233
- slowdown SNA-PRM-277

network definition SNA-PRM-233

network definition

- changes MIG-GD1-210, MIG-GD1-251, MIG-GD1-254
- define new definitions MIG-GD1-211
- dynamic load relationship MIG-GD1-211
- dynamic LU support MIG-GD1-254
- fall back to previous network definitions MIG-GD1-251
- install new definitions MIG-GD1-210
- load MIG-GD1-251
- load resource definitions MIG-GD1-254
- modify for SNA MIG-GD1-251
- update input data sets MIG-GD1-254

network definitions

- loading OPR-GDE-1002
- resource vector table (RVT)
 - merging OPR-GDE-1004
- ZNOPL LOAD command OPR-GDE-1002
- ZNOPL MERGE command OPR-GDE-1004

network environment

- channel configuration GIM-20
- local terminals GIM-20
- remote terminals GIM-20

network extension facility SPM-PRM-3

Network Extension Facility (NEF) SNA-PRM-2, SNA-PRM-45, SNA-PRM-47

- network extension facility (NEF) terminal
 - resetting OPR-GDE-698
 - ZLRST command OPR-GDE-698
- network extension facility (NEF)
 - 2946-1980-24 terminal reset MIG-GD1-73
 - changes MIG-GD1-257
- Network Extension Facility (NEF)
 - application logical unit
 - not in RCAT SNA-PRM-46
 - editing by NEF SNA-PRM-47
 - multiple host support SNA-PRM-49
 - transaction analysis (TA) program SNA-PRM-49
 - translation SNA-PRM-47
- network failures, HPR
 - alive timer SNA-PRM-145
 - detecting SNA-PRM-144
 - heartbeat message SNA-PRM-145
 - short request timer SNA-PRM-144
- network generation SNA-PRM-250
- network identifier
 - adjacent link station (ALS) resource
 - displaying OPR-GDE-917
 - logical unit (LU)
 - displaying OPR-GDE-946
 - PU 2.1 support
 - displaying OPR-GDE-977
 - PU 5 support
 - displaying OPR-GDE-979, OPR-GDE-985
 - ZNALS command OPR-GDE-917
 - ZNDLU command OPR-GDE-946
 - ZNKEY command OPR-GDE-977, OPR-GDE-979
- network IDs ACF-GDE-33
- Network Interface Adapter (NIA) SNA-PRM-29
- network layer header (NHDR) SNA-PRM-147
- network layer header (NHDR)
 - displaying OPR-GDE-1012
 - ZNPIU command OPR-GDE-1012
- network layer packet (NLP)
 - data
 - FID5 TH SNA-PRM-151
 - RH SNA-PRM-151
 - RU SNA-PRM-151
 - description of SNA-PRM-145
 - displaying OPR-GDE-1012
 - HPR control messages SNA-PRM-151
 - network considerations SNA-PRM-152
 - NHDR SNA-PRM-147
 - NHDR
 - displaying OPR-GDE-1012
 - retransmitting SYS-MAC-453
 - sending SYS-MAC-453
 - THDR SNA-PRM-149
 - THDR
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - writing SYS-MAC-453
 - ZNPIU command OPR-GDE-1012
 - ZNTRP command OPR-GDE-1052
- network name data
 - locating GEN-MAC-353
- network name
 - converting OPR-GDE-943
 - ZNCVT command OPR-GDE-943
- network node name
 - convert MIG-GD1-251, MIG-GD1-254
- network priority CLAWGR-111
- network priority
 - displaying OPR-GDE-977
 - ZNKEY command OPR-GDE-977
- network protocols
 - 3270 local CON-STR-186
 - airline lines control (ALC) CON-STR-186
 - binary synchronous communication (BSC)
 - CON-STR-186
 - channel to channel (CTC) CON-STR-186
 - introduction of CLAWGR-3
 - synchronous data link control (SDLC) CON-STR-186
 - synchronous link control (SLC) CON-STR-186
 - token ring CON-STR-186
 - X.25 CON-STR-186
- network qualified name information GEN-MAC-271
- network requirements
 - client/server environment CLAWGR-7
 - industry standard CLAWGR-7
 - open network connectivity CLAWGR-7
 - porting socket applications CLAWGR-7
 - role in the Internet CLAWGR-7
- network resource SNA-PRM-3
- Network Services Application Interfaces SNA-PRM-213
- network services database
 - refreshing OPR-GDE-667
 - ZIPDB command OPR-GDE-667
- network subareas
 - defining OPR-GDE-953
 - redefining OPR-GDE-956
 - status
 - displaying OPR-GDE-968
 - ZNDYN ADD command OPR-GDE-953
 - ZNDYN CHANGE command OPR-GDE-956
 - ZNETW DISPLAY command OPR-GDE-968
- network switch GIM-3
- network traffic and movable VIPAs CLAWGR-69
- network, computer CLAWGR-3
- network, interconnection CLAWGR-3, CLAWGR-13
- network, simplistic CON-STR-171
- network, tuning CLAWGR-55
- network
 - address SNA-PRM-19
 - control SNA-PRM-11
 - name SNA-PRM-19
- new application
 - logical end-point identifier (LEID) CON-STR-172
 - resource identifier (RID) CON-STR-172
- new pool support
 - API changes MIG-GD2-101
 - architecture MIG-GD2-93
 - C/C++ language MIG-GD2-95
 - CINFC tags MIG-GD2-95
 - commands MIG-GD2-99
 - CONKC tags MIG-GD2-95
 - converting to MIG-GD2-91

new pool support *(continued)*
 copy members MIG-GD2-95
 database changes MIG-GD2-101
 DYOPM MIG-GD2-90
 fallback MIG-GD2-104
 fallback scenarios MIG-GD2-103
 feature changes MIG-GD2-102
 fixed file records MIG-GD2-95
 functional changes MIG-GD2-99
 functional overview MIG-GD2-89
 functions and keypoint 9 (CTK9) MIG-GD2-90
 halfword directory ordinals MIG-GD2-89
 halfword fields MIG-GD2-90
 host system changes MIG-GD2-101
 installation MIG-GD2-102, MIG-GD2-103
 installation validation MIG-GD2-102
 interfaces MIG-GD2-95
 keypoint filing MIG-GD2-90
 keypoint retrieval MIG-GD2-90
 loading process MIG-GD2-101
 macros MIG-GD2-95
 migration scenarios MIG-GD2-102
 migration tools MIG-GD2-92
 new functions MIG-GD2-94
 new record structures MIG-GD2-94
 offline messages MIG-GD2-100
 offline pool maintenance program (DYOPM)
 MIG-GD2-90
 online messages MIG-GD2-100
 online system load MIG-GD2-101
 operating environment requirements MIG-GD2-95
 operational changes MIG-GD2-99
 overview MIG-GD2-16, MIG-GD2-89
 performance changes MIG-GD2-100
 planning information MIG-GD2-95
 pool conversion MIG-GD2-91
 pool conversion fallback MIG-GD2-93
 pool maintenance package, changes to MIG-GD2-89
 prerequisite APARs MIG-GD2-89
 publication changes MIG-GD2-101
 segments MIG-GD2-97
 SIP changes MIG-GD2-101
 storage changes MIG-GD2-101
 storage considerations MIG-GD2-101
 system equates MIG-GD2-99
 system errors MIG-GD2-100
 system generation changes MIG-GD2-101
 tuning changes MIG-GD2-100
 user exits MIG-GD2-99
 utilities and keypoint 9 (CTK9) MIG-GD2-90
 NEWAUTHID field of SYSIBM.SYSUSERNAMES table
 AR-USG-22
 NHDR SNA-PRM-147
 NIA (Network Interface Adapter) SNA-PRM-29
 no release file macro GEN-MAC-200
 node control block (NCB) CON-STR-180, SNA-PRM-19
 node control block (NCB) records
 381-byte fixed file
 description of SNA-PRM-184
 381-byte long-term file SNA-PRM-184
 node control block (NCB) records *(continued)*
 381-byte long-term file
 description of SNA-PRM-184
 NCB directory records SNA-PRM-184
 NCB slots SNA-PRM-184, SNA-PRM-185
 address
 displaying OPR-GDE-989
 description of SNA-PRM-183
 displaying SNA-PRM-187
 initializing OPR-GDE-987, SNA-PRM-187
 NCB control record SNA-PRM-184
 NCB directory record information
 displaying OPR-GDE-989
 NCB directory records SNA-PRM-185
 NCB initialization function SNA-PRM-187
 NCB reconciliation function SNA-PRM-187
 NCB slots
 defining for an application SNA-PRM-184,
 SNA-PRM-185
 description of SNA-PRM-184, SNA-PRM-186
 ordinal number
 displaying OPR-GDE-989
 performance SNA-PRM-190
 reclaiming SNA-PRM-187
 reconciling OPR-GDE-992
 unused
 returning OPR-GDE-992
 ZNNCB command OPR-GDE-987
 ZNNCB DISPLAY command OPR-GDE-989
 ZNNCB RECON command OPR-GDE-992
 node control block (NCB)
 create MIG-GD1-211
 initialize MIG-GD1-77, MIG-GD1-211
 node names
 description of ACF-GDE-33
 duplicate ACF-GDE-32
 duplicate report ACF-GDE-32
 reserved ACF-GDE-34
 node types, HPR
 ANR nodes SNA-PRM-127
 mobile RTP nodes SNA-PRM-143
 RTP nodes SNA-PRM-127
 stationary RTP nodes SNA-PRM-143
 node vs. NAU SNA-PRM-3
 node
 host or non-host SNA-PRM-4
 NOLISTEN process model APP-GDE-173,
 APP-GDE-177, APP-GDE-188
 non-cursor API collection summary table CLS-UGR-881
 non-ECB controlled programs APP-GDE-6
 non-host node SNA-PRM-4
 non-LU resource
 ALS resources MIG-GD1-254
 CDRM resources MIG-GD1-254
 change resource definitions MIG-GD1-254
 CTC resources MIG-GD1-254
 NCP resources MIG-GD1-254
 Non-SNA 3270 Application Considerations
 SNA-PRM-26
 non-SNA communication
 changes MIG-GD1-257

- non-SNA communication *(continued)*
 - operating environment MIG-GD1-199, MIG-GD2-49
 - overview MIG-GD1-16
- non-SNA communications SYS-GEN-335
- non-SNA communications
 - keypoint records SYS-GEN-16
 - pilot tape creation SYS-GEN-345
- non-SNA data communication
 - ZACRS command OPR-GDE-53
 - ZALCT command OPR-GDE-66
 - ZALMT command OPR-GDE-67
 - ZBOLT command OPR-GDE-108
 - ZDCRS command OPR-GDE-295
 - ZDLCT command OPR-GDE-335
 - ZDWGT command OPR-GDE-398
 - ZLACL command OPR-GDE-676
 - ZLAEC command OPR-GDE-678
 - ZLAPR command OPR-GDE-679
 - ZLASL command OPR-GDE-680
 - ZLASN command OPR-GDE-681
 - ZLASP command OPR-GDE-683
 - ZLDCL command OPR-GDE-684
 - ZLDLE command OPR-GDE-685
 - ZLDLS command OPR-GDE-687
 - ZLDTI command OPR-GDE-689
 - ZLIDL command OPR-GDE-690
 - ZLKST command OPR-GDE-692
 - ZLKTF command OPR-GDE-694
 - ZLKTN command OPR-GDE-695
 - ZLREP command OPR-GDE-696
 - ZLRST command OPR-GDE-698
 - ZLSTA command OPR-GDE-699
 - ZLSTP command OPR-GDE-701
 - ZLTOF command OPR-GDE-703
 - ZLTON command OPR-GDE-704
 - ZLTST command OPR-GDE-710
 - ZLVAL command OPR-GDE-712
 - ZMATP command OPR-GDE-748
 - ZPLMT command OPR-GDE-1115
 - ZRCRS command OPR-GDE-1147
 - ZRLMT command OPR-GDE-1220
 - ZSIPC ALTER command OPR-GDE-1253
 - ZSIPC DISPLAY command OPR-GDE-1256
 - ZTERM command OPR-GDE-1338
- nonblocking mode, socket
 - do not wait for data CLAWGR-121
- nondynamic exit points
 - changing to dynamic INS-PRM-3
- NONE
 - specifying on the VERIFY keyword of VTAM APPL statement AR-USG-19
- nonlocal goto
 - longjmp CLS-UGR-313
 - setjmp CLS-UGR-470
- nonlocking cursor APP-GDE-115, CON-STR-165
- nonlocking cursor, creating CLS-UGR-1129
- nonlocking cursors DBS-REF-142
- nonprotected data records APP-GDE-240, APP-GDE-242
- nonreentrant programs GEN-MAC-5
- nonretentive access: SPM-PRM-49
- nonzero setting GEN-MAC-18
- norm state MSP-PRM-6
- NORM state
 - load network definitions MIG-GD1-251
- normal (NORM) state
 - cycling to OPR-GDE-239
 - description of OPR-GDE-10
 - ZCYCL command OPR-GDE-239
- normal cache replacement SPM-PRM-49
- NOWAIT process model APP-GDE-172, APP-GDE-176, APP-GDE-178, APP-GDE-182
- NPSI (NCP Packet Switching Interface) SNA-PRM-2, SNA-PRM-3, SNA-PRM-30, SNA-PRM-32
- NPSI GATE/FTPI SNA-PRM-2
- NQN information GEN-MAC-271
- NSC communication for 3705 SYS-MAC-403
- NSPI considerations for FTPI (Fast Transaction Processing Interface) SNA-PRM-37
- nucleus storage boundaries SYS-GEN-34
- null RU SNA-PRM-27, SNA-PRM-29
- NUMALS SNA-PRM-179
- NUMALS parameter
 - SNAKEY macro ACF-GDE-14
- NUMBC macro SYS-MAC-360
- number of storage blocks available SYS-MAC-360
- number of storage blocks
 - getting SYS-MAC-345
- numbers for macro groups PDV-PRM-10
- NUMLC macro SYS-MAC-361
- NXTLC macro SYS-MAC-363
- NXTPC macro SYS-MAC-366
- NXTRC macro SYS-MAC-367

O

- OBJECT class, TPFCS DBS-REF-166
- object code only (OCO) table SYS-GEN-180
- object header DBS-REF-166
- object libraries INS-PRM-324, INS-PRM-345, INS-PRM-364
- object-oriented concepts, TPFCS DBS-REF-157
- objects
 - condensing to save space DBS-REF-207
 - file representation of DBS-REF-164
 - logical DBS-REF-167
 - MemFLAT DBS-REF-174
 - MemHash DBS-REF-175
 - MemKey DBS-REF-177
 - MemList DBS-REF-179
 - overflowing into additional records DBS-REF-210
- obtain a process ID CLS-UGR-267
- Obtain Block Type and Size macro SYS-MAC-500
- obtain child exit status CLS-UGR-690
- Obtain Common Storage Block macro SYS-MAC-33
- Obtain Logical Size macro GEN-MAC-362
- obtain status information from a child process
 - CLS-UGR-684, CLS-UGR-687
- Obtain Storage Block macro SYS-MAC-35
- Obtain Symbolic File Address Information macro
 - GEN-MAC-366, SYS-MAC-226
- obtain the parent process ID CLS-UGR-268
- obtain the status of CLAW adapter CLAWGR-400

- obtain the status of CLAW logical links CLAWGR-400
- obtain value of environment variables
 - See getenv function
- obtain
 - file pool address CLS-UGR-258
 - input string CLS-UGR-273
 - symbolic file address information CLS-UGR-511, CLS-UGR-586
 - working storage block CLS-UGR-248
- obtaining a pool file address CON-STR-128
- OCO (object code only) table SYS-GEN-180
- OECB DBS-REF-92
- offline (OL) table SYS-GEN-179
- offline ACF/SNA table generation GIM-26
- offline ACF/SNA table generation
 - CTC statement changes MIG-GD1-252
 - define for SNA communication MIG-GD1-226
 - dynamic LU support MIG-GD1-254
 - update input data sets MIG-GD1-254
 - write network definitions
 - to a general data set (GDS) MIG-GD1-210
 - to tape MIG-GD1-210
- offline allocator
 - compatibility checking MIG-GD1-226
 - run MIG-GD1-226
- offline data reduction SPM-PRM-1
- offline FACE table generation SYS-GEN-186
- offline interface DBS-REF-121
- offline pool maintenance program (DYOPM)
 - after converting to new keypoint 9 (CTK9)
 - MIG-GD2-90, MIG-GD2-91, MIG-GD2-103
 - critical information when using MIG-GD2-90, MIG-GD2-91, MIG-GD2-103, MIG-GD2-104
 - definition MIG-GD1-247
 - restrictions
 - new pool support MIG-GD2-90, MIG-GD2-91, MIG-GD2-103, MIG-GD2-104
 - PXP MIG-GD2-90, MIG-GD2-91, MIG-GD2-103, MIG-GD2-104
 - when to use
 - existing version MIG-GD2-90, MIG-GD2-91, MIG-GD2-103, MIG-GD2-104
 - new version MIG-GD2-90, MIG-GD2-91, MIG-GD2-103
- offline processing
 - input tape MIG-GD1-286
 - reports MIG-GD1-288
- offline SNA table
 - define MIG-GD1-203
- offline utilities
 - stand-alone dump (SADUMP) utility OPR-GDE-1449
 - stand-alone dump postprocessor (SADPRT) utility OPR-GDE-1449, OPR-GDE-1451
- offline
 - interface (DFAD) SYS-GEN-162
- offload device
 - IBM 3172 Model 3 Interconnect Controller CLAWGR-29
- OL (offline) table SYS-GEN-179
- old application
 - logical end-point identifier (LEID) CON-STR-172
- OLD tapes OPR-GDE-18
- OLDAPPL parameter
 - SNAKEY macro ACF-GDE-17
- OMT message SYS-MAC-462
- one application, simplistic network CON-STR-171
- one-time driver records SPM-PRM-88
- ONLFIL macro SYS-GEN-282
- online data collection SPM-PRM-1
- online data loader CON-STR-148
- online directory capture, pool files DBS-REF-27
- online directory
 - updating OPR-GDE-394
 - ZDUPD command OPR-GDE-394
- online disk packs
 - input for running PTV PDV-PRM-6
- online file addresses DBS-REF-3
- online file recoup
 - aborting OPR-GDE-1150
 - APAR PJ21224
 - highlights MIG-GD1-282
 - migration MIG-GD1-282
 - overview MIG-GD1-282
- bypassing directory rollin OPR-GDE-1203
- chain chasing MIG-GD1-283
- changes MIG-GD1-282
- continuing OPR-GDE-1153, OPR-GDE-1169
- control unit buffering MIG-GD1-282
- database corruption MIG-GD1-282
- description MIG-GD1-282
- displaying status OPR-GDE-1206
- file address migration MIG-GD1-245
- GROUP macro MIG-GD1-283
- initializing internal recoup structures OPR-GDE-1201
- migration to 32-way loosely coupled OPR-GDE-780
- offline program sequence checking MIG-GD1-282
- pausing OPR-GDE-1169
- phases MIG-GD1-282
- processing records OPR-GDE-1199
- recalling OPR-GDE-1191
- recoup descriptor writer (BKDR) MIG-GD1-282
- recoup logging block MIG-GD1-282
- restart checkpoint mechanism MIG-GD1-282
- restarting phase 1 OPR-GDE-1195
- restarting phase 3 OPR-GDE-1194
- resuming phase 3 OPR-GDE-1197
- retrying OPR-GDE-1198
- roll in directories OPR-GDE-1179
- setup OPR-GDE-1201
- starting phase 1 OPR-GDE-1204
- starting phase 5 OPR-GDE-1162
- stopping phase 5 OPR-GDE-1162
- system equates MIG-GD2-852
- tape blocking MIG-GD1-282
- tapes
 - RCI MIG-GD1-282
 - RCP MIG-GD1-282
 - RPC MIG-GD1-282
 - RPE MIG-GD1-282
- ZMIGR command OPR-GDE-780
- ZRECP ABORT command OPR-GDE-1150
- ZRECP CONTINUE OPR-GDE-1153

- online file recoup *(continued)*
 - ZRECP DUMP command OPR-GDE-1162
 - ZRECP LEVEL command OPR-GDE-1169
 - ZRECP PROCEED command OPR-GDE-1179
 - ZRECP RECALL command OPR-GDE-1191
 - ZRECP RERUN command OPR-GDE-1194
 - ZRECP RESTART command OPR-GDE-1195
 - ZRECP RESUME command OPR-GDE-1197
 - ZRECP RETRY command OPR-GDE-1198
 - ZRECP SEL command OPR-GDE-1199
 - ZRECP SETUP command OPR-GDE-1201
 - ZRECP SKIP command OPR-GDE-1203
 - ZRECP START command OPR-GDE-1204
 - ZRECP STATUS command OPR-GDE-1206
- online general file loader (ACPL)
 - description MIG-GD1-12, MIG-GD1-228
 - receive messages from MIG-GD1-204, MIG-GD1-228
- online loader (ACPL) CON-STR-79
- online map file
 - loading and updating OPR-GDE-68
- online merge function SNA-PRM-196
- online merge function
 - performing OPR-GDE-1004
 - status of
 - displaying OPR-GDE-1007
 - ZNOPL MERGE command OPR-GDE-1004
 - ZNOPL STATUS command OPR-GDE-1007
- online mini dump GIM-26
- online mini dump facility
 - overview MIG-GD1-294
 - system error hooks MIG-GD1-21
- online mini dump user exit INS-PRM-64
- online module
 - reformat MIG-GD1-203, MIG-GD1-212
- online modules
 - formatting INS-PRM-322
- online patch facility
 - overview MIG-GD1-16
- online segment SYS-GEN-19
- online system CON-STR-5
- online system load
 - 3590 support MIG-GD2-292
- OPCODE
 - description of ACF-GDE-33
- open a CLAW adapter CLAWGR-397
- open a CLAW logical link request CLAWGR-390
- open a data set GEN-MAC-548
- open a general tape CLS-UGR-537, CLS-UGR-556
- Open a General Tape macro GEN-MAC-406
- open a queue CLS-UGR-355
- open a resource manager CLS-UGR-712
- open a set of resource managers CLS-UGR-651
- open file description CLS-UGR-1409
- Open macro GEN-MAC-17
- open network connectivity CLAWGR-7
- Open Systems Adapter (OSA)-Express support SYS-GEN-112
- Open Systems Adapter (OSA)-Express Support
 - maximum number of OSA-Express connections displaying OPR-GDE-978
- Open Systems Adapter (OSA)-Express Support *(continued)*
 - ZNKEY command OPR-GDE-978
- open systems infrastructure
 - API changes MIG-GD2-604
 - architecture MIG-GD2-595
 - C/C++ language MIG-GD2-596
 - C++ class library support relationship MIG-GD2-592
 - CINFC tags MIG-GD2-600
 - commands MIG-GD2-603
 - CONKC tags MIG-GD2-600
 - copy members MIG-GD2-600
 - database changes MIG-GD2-605
 - feature changes MIG-GD2-605
 - fixed file records MIG-GD2-601
 - functional changes MIG-GD2-603
 - functional overview MIG-GD2-595
 - host system changes MIG-GD2-604
 - I/O stream class libraries relationship MIG-GD2-592
 - installation validation MIG-GD2-605
 - interfaces MIG-GD2-596
 - loading process MIG-GD2-604
 - macros MIG-GD2-601
 - migration scenarios MIG-GD2-605
 - offline messages MIG-GD2-603
 - online messages MIG-GD2-603
 - online system load MIG-GD2-604
 - operating environment requirements MIG-GD2-596
 - operational changes MIG-GD2-603
 - overview MIG-GD2-595
 - performance changes MIG-GD2-603
 - planning information MIG-GD2-596
 - prerequisite APARs MIG-GD2-595
 - publication changes MIG-GD2-604
 - segments MIG-GD2-602
 - SIP changes MIG-GD2-604
 - storage changes MIG-GD2-603
 - storage considerations MIG-GD2-603
 - system equates MIG-GD2-602
 - system errors MIG-GD2-603
 - system generation changes MIG-GD2-604
 - tuning changes MIG-GD2-603
 - user exits MIG-GD2-602
- open the system control log CLS-UGR-386
- open
 - a directory CLS-UGR-384
 - a file CLS-UGR-380
 - a log CLS-UGR-386
- opening the archive interface CLS-UGR-1361
- opening
 - files CLS-UGR-199
 - logs CLS-UGR-386
 - streams CLS-UGR-199, CLS-UGR-215
- operand formats GEN-MAC-2
- operate on TPF global field CLS-UGR-290
- operating system requirements SYS-GEN-173
- operation modes, cache DBS-REF-41, DBS-REF-44
- operation of system CON-STR-91
- operation of system
 - basic subsystem (BSS) CON-STR-135
 - cycle down CON-STR-139

- operational change
 - APAR summary MIG-GD2-1269
 - automation program impact MIG-GD1-261
 - overview MIG-GD1-261
 - PUT summary MIG-GD2-1269
 - summary MIG-GD1-261
- operational considerations
 - File Transfer Protocol (FTP) server CLAWGR-243
 - Internet daemon CLAWGR-235, CLAWGR-236
 - Internet server application CLAWGR-237
 - syslog daemon CLAWGR-245
 - Trivial File Transfer Protocol (TFTP) server CLAWGR-239
- Operational Program Zero GEN-MAC-13
- operational program zero (OPZERO) APP-GDE-11, APP-GDE-229
- operational system
 - definition of PDV-PRM-3
- operator commands
 - summary MPI-PRM-8
- operator control SYS-GEN-146
- operator control of tape operations GEN-MAC-20
- operator control
 - Internet daemon CLAWGR-236
 - Internet server application CLAWGR-238
- operator identification and control SYS-GEN-145
- operator
 - control of tape operations APP-GDE-272
 - security APP-GDE-42
- OPR dumps GEN-MAC-357
- optimistic concurrency APP-GDE-115, CON-STR-165, DBS-REF-142
- option codes for dumps
 - an overview PDV-PRM-10
 - CDMP PDV-PRM-10
 - DATD PDV-PRM-10
 - EBDW PDV-PRM-10
 - ECBD PDV-PRM-10
- option list, creating CLS-UGR-990
- optional log function
 - alpha pointers description PDV-PRM-56
- optional software support SYS-GEN-7
- options for error processing GEN-MAC-22
- options
 - compilation phase SPM-PRM-91
 - execution phase SPM-PRM-94
 - linkedit phase SPM-PRM-93
- OPZERO CON-STR-62, CON-STR-67, CON-STR-176, MSP-PRM-15
- OPZERO
 - creating an ECB CON-STR-58
 - functions CON-STR-176
 - SNA CON-STR-176
- ORD record
 - format of PDV-PRM-30
- order conversion
 - integer byte CLAWGR-120
- ordering of collection elements CON-STR-162
- ordinal number APP-GDE-251, CON-STR-9, CON-STR-90, CON-STR-99, CON-STR-106
- ordinal number
 - displaying file address for OPR-GDE-241
 - fixed record CON-STR-106
 - for NCB directory record SYS-MAC-212
 - usage CON-STR-9
 - ZDADD command OPR-GDE-241
- ordinal numbers SYS-GEN-63
- ordinal
 - access the file address compute program (FACE) table MIG-GD1-247
 - changes MIG-GD1-247
 - number MIG-GD1-217
 - restrictions MIG-GD1-247
- ordinals for C libraries APP-GDE-324
- organization SYS-GEN-63
- origin and destination network identifier (NETID)
 - description MIG-GD1-295
- origin of message CON-STR-171
- original protection key CLS-UGR-297
- OSA configuration record CLAWGR-52
- OSA control block table CLAWGR-52
- OSA read buffers CLAWGR-53
- OSA read buffers, defining CLAWGR-53
- OSA shared IP address table (OSIT) CLAWGR-52
- OSA-Express card CLAWGR-39
- OSA-Express card, configuration characteristics CLAWGR-43
- OSA-Express connection
 - changing a definition for OPR-GDE-1104
 - defining a definition for OPR-GDE-1104
 - deleting a definition for OPR-GDE-1104
 - ZOSAE command OPR-GDE-1104
- OSA-Express connections CLAWGR-66
- OSA-Express support CLAWGR-5, CLAWGR-43
- OSA-Express support
 - API changes MIG-GD2-921
 - architecture MIG-GD2-908
 - C/C++ language MIG-GD2-909
 - CINFC tags MIG-GD2-910
 - commands MIG-GD2-916
 - CONKC tags MIG-GD2-910
 - copy members MIG-GD2-910
 - database changes MIG-GD2-921
 - feature changes MIG-GD2-921
 - fixed file records MIG-GD2-911
 - functional changes MIG-GD2-916
 - functional overview MIG-GD2-907
 - hardware MIG-GD2-908
 - host system changes MIG-GD2-921
 - installation validation MIG-GD2-921
 - interfaces MIG-GD2-909
 - loading process MIG-GD2-920
 - macros MIG-GD2-911
 - migration scenarios MIG-GD2-921
 - offline messages MIG-GD2-916
 - online messages MIG-GD2-916
 - online system load MIG-GD2-921
 - operating environment requirements MIG-GD2-908
 - operational changes MIG-GD2-916
 - overview MIG-GD2-28, MIG-GD2-907
 - performance changes MIG-GD2-920

- OSA-Express support *(continued)*
 - planning information MIG-GD2-908
 - prerequisite APARs MIG-GD2-907
 - publication changes MIG-GD2-921
 - segments MIG-GD2-913
 - SIP changes MIG-GD2-920
 - software (programming requirements) MIG-GD2-909
 - storage changes MIG-GD2-920
 - storage considerations MIG-GD2-920
 - system equates MIG-GD2-915
 - system errors MIG-GD2-916
 - system generation changes MIG-GD2-920
 - tuning changes MIG-GD2-920
 - user exits MIG-GD2-915
- OSABUFF parameter
 - SNAKEY macro ACF-GDE-20
- OSTG AR-USG-12, AR-USG-18, SNA-PRM-61
- OSTG network definitions
 - date created
 - displaying OPR-GDE-1007
 - description of
 - displaying OPR-GDE-1007
 - loading OPR-GDE-1002
 - resource vector table (RVT)
 - merging OPR-GDE-1004
 - status of
 - displaying OPR-GDE-1007
 - time created
 - displaying OPR-GDE-1007
 - ZNOPL LOAD command OPR-GDE-1002
 - ZNOPL MERGE command OPR-GDE-1004
 - ZNOPL STATUS command OPR-GDE-1007
- OSTG program
 - considerations SNA-PRM-194
 - defining SNA resources SNA-PRM-193
 - IODEV macro SNA-PRM-194
 - loading resource definitions SNA-PRM-194
 - loading resource definitions
 - SNA dynamic load function SNA-PRM-195
 - SNA fallback load function SNA-PRM-196
 - SNA fresh load function SNA-PRM-194
- OSTG
 - #RRTRI records ACF-GDE-52
 - data sets
 - BLKSIZE ACF-GDE-29
 - block size ACF-GDE-29
 - description of ACF-GDE-29
 - input data sets ACF-GDE-30
 - intermediate work data sets ACF-GDE-32
 - logical record length ACF-GDE-29
 - LRECL ACF-GDE-29
 - output data sets ACF-GDE-31
 - RECFM ACF-GDE-29
 - record format ACF-GDE-29
 - description of ACF-GDE-27
 - EXEC PARM field ACF-GDE-29
 - fixed file requirements ACF-GDE-52
 - input data sets ACF-GDE-30
 - intermediate work data sets ACF-GDE-32
 - messages
 - E-error on statement ACF-GDE-31
- OSTG *(continued)*
 - messages *(continued)*
 - I-informational ACF-GDE-31
 - input list report ACF-GDE-31
 - S-severe error ACF-GDE-31
 - update list report ACF-GDE-32
 - W-attention ACF-GDE-31
 - output data sets ACF-GDE-31
 - overview diagram ACF-GDE-27
 - reports
 - DDNAME=SYSOUT ACF-GDE-31
 - duplicate node name report ACF-GDE-32
 - examples ACF-GDE-63
 - input list report ACF-GDE-31
 - LEID list report ACF-GDE-32
 - PSV report ACF-GDE-32
 - subarea report ACF-GDE-32
 - update list report ACF-GDE-32
 - SNA configuration data ACF-GDE-31
 - using ACF-GDE-28
 - ZNOPL STATUS command
 - specifying description for ACF-GDE-29
- other I/O, recoup DBS-REF-115
- out-of-band data
 - MSG_OOB flag CLAWGR-121
- outbound message buffering SNA-PRM-99
- outbound message flow SNA-PRM-7
- outbound message flow extensions SNA-PRM-319
- outbound message flow extensions
 - ROUTC exit SNA-PRM-319
- outbound message flow through the socket/CLAW
 - interfaces CLAWGR-17
- outbound message flow, OSA-Express support
 - CLAWGR-48
- outbound message flow, TCP/IP native stack support
 - CLAWGR-46
- output buffers
 - CTC links
 - number of OPR-GDE-974
 - ZNKEY command OPR-GDE-974
- output data message to a 3270 printer
 - timeout value
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
 - ZNKEY command OPR-GDE-980
- output data message
 - timeout value
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
 - ZNKEY command OPR-GDE-980
- output data sets
 - description of ACF-GDE-31
 - examples ACF-GDE-63
 - GDS ACF-GDE-31
 - pilot tape ACF-GDE-31
 - PILOTID parameter ACF-GDE-31
 - reports ACF-GDE-31
 - SNA configuration data ACF-GDE-31
- output data, queued
 - transmitting
 - logical unit (LU) blocking package OPR-GDE-977

- output data, queued (*continued*)
 - ZNKEY command OPR-GDE-977
- output formatting
 - by DOF PDV-PRM-14
- output message format PSM-GDE-5
- output message queuing SYS-MAC-388
- output message segments, multiple chained restriction
 - bypassing OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- output message transmission CON-STR-182
- output message transmission (OMT) SNA-PRM-28, SNA-PRM-281
- output message transmitter DCS-PRM-151
- output message transmitter (OMT) messages
 - OMT queue
 - purging OPR-GDE-1021
 - resending OPR-GDE-1022
 - repeating OPR-GDE-1220
 - ZRLMT command OPR-GDE-1220
- output message transmitter (OMT) program
 - output messages
 - purging OPR-GDE-1021
 - resending OPR-GDE-1022
 - ZNPRG command OPR-GDE-1021
 - ZNRPT command OPR-GDE-1022
- output message transmitter (OMT) queue
 - last message
 - resending OPR-GDE-1022
 - purging OPR-GDE-1021
 - removing messages from OPR-GDE-1115
 - ZNPRG command OPR-GDE-1021
 - ZNRPT command OPR-GDE-1022
 - ZPLMT command OPR-GDE-1115
- output message transmitter (OMT)
 - purge queue MIG-GD1-78, MIG-GD1-79
 - repeat last message MIG-GD1-78, MIG-GD1-80
- output message transmitter and input message editor
 - component programs DCS-PRM-151
 - functions DCS-PRM-151
 - relationships to other programs DCS-PRM-152
- output message
 - high-speed SPM-PRM-85
- output messages APP-GDE-155
- output Messages SNA-PRM-48
- output messages, HPR
 - building SNA-PRM-172
 - HPR SOUTC type-A block SNA-PRM-172
 - HPR SOUTC type-B block SNA-PRM-172
 - HPR SOUTC type-C block SNA-PRM-172
 - retransmitting SNA-PRM-174
 - segmenting SNA-PRM-175
- output messages, message examples PSM-GDE-6
- output messages, message ID uniqueness PSM-GDE-7
- output messages
 - character set PSM-GDE-5
 - last message
 - resending OPR-GDE-1022
 - lowercase characters PSM-GDE-5
 - OMT queue
 - purging OPR-GDE-1021
- output messages (*continued*)
 - special characters PSM-GDE-5
 - translation user exit PSM-GDE-5
 - ZNPRG command OPR-GDE-1021
 - ZNRPT command OPR-GDE-1022
- output phase DBS-REF-95
- output report
 - file reduction reports MIG-GD1-289
 - general reduction reports MIG-GD1-288
 - message reduction reports MIG-GD1-291
 - program reduction reports MIG-GD1-290
 - system reduction reports MIG-GD1-288
 - types MIG-GD1-288
- output types SYS-GEN-330
- output
 - system test compiler PDV-PRM-44
- overflow global directory keypointing GEN-MAC-266
- overflow of objects into additional records
 - DBS-REF-210
- override dump bitmap table macro SYS-MAC-296
- override keypoint DBS-REF-91
- overrides
 - dump, coding MSP-PRM-43
- overview of TPF collection support APP-GDE-101, DBS-REF-129
- overview of TPF MQSeries support APP-GDE-79
- overview of TPF transaction services APP-GDE-89
- overview of TPFCS CON-STR-159
- overview
 - data collection/reduction SPM-PRM-9
 - performance SPM-PRM-1
 - PTV PDV-PRM-16
 - STC PDV-PRM-45
- owner ID DBS-REF-214
- ownership of files/directories CLS-UGR-125
- owning control record DBS-REF-214

P

- P1024 test
 - perform MIG-GD1-74
 - synchronous link MIG-GD1-74
- P11 universal character set
 - CUAI program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS LUCS command OPR-GDE-102
- pacing CON-STR-182
- pacing and RU size considerations for VTAM
 - AR-USG-19
- pacing considerations
 - for AX.25 SNA-PRM-240
- pacing control MPI-PRM-17
- pacing in SNA SNA-PRM-248
- pacing information
 - virtual route (VR) pacing requests
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - virtual route (VR) pacing responses
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - virtual route
 - displaying OPR-GDE-972

pacing information (*continued*)
 ZNETW ROUTE command OPR-GDE-972
 ZNPIU command OPR-GDE-1012
 ZNTRP command OPR-GDE-1052
 package (output from DB2 bind process) AR-USG-35
 package (output from DB2 bind process)
 definition of AR-USG-111
 PACKAGE option of DBRM AR-USG-35
 package test APP-GDE-290
 Package Test PDV-PRM-13
 package test
 RUNID PDV-PRM-7
 selective file dump PDV-PRM-53
 package
 collection details SPM-PRM-65
 details report SPM-PRM-64
 enters SPM-PRM-65
 enters report SPM-PRM-65
 on-file enters SPM-PRM-66
 on-file enters report SPM-PRM-66
 Packet Assembler/Disassembler (PAD) SNA-PRM-29
 packet filtering CLAWGR-105, MIG-GD2-1216
 packet filtering
 /etc/iprules.txt CLAWGR-105, CLAWGR-106
 defining rules for CLAWGR-106
 displaying or refreshing rules OPR-GDE-552
 ZFILT command OPR-GDE-552
 Packet Switched Data Network (PSDN) SNA-PRM-29
 PAD (Packet Assembler/Disassembler) SNA-PRM-29
 page CON-STR-26
 page 0 CON-STR-27
 page 0 reference CON-STR-28
 page 0
 and the control program CON-STR-80
 uniqueness CON-STR-27
 page table CON-STR-26
 page zero SYS-GEN-34
 page-protected memory INS-PRM-402
 page-protected memory
 program residency MIG-GD1-219
 pages allocated for ECB SPM-PRM-35
 paging CON-STR-27
 paging control
 WTOPC MIG-GD1-22
 PAL SYS-GEN-36
 PARACOS SNA-PRM-62
 PARACOS parameter
 SNAKEY macro ACF-GDE-17
 parallel processing CON-STR-21, CON-STR-22,
 CON-STR-39
 parallel sessions
 class of service name
 CDINIT response OPR-GDE-979
 contention-winner polarities
 changing OPR-GDE-932
 initializing OPR-GDE-936
 session limit
 changing OPR-GDE-932
 initializing OPR-GDE-936
 resetting OPR-GDE-940
 ZNCNS CHANGE command OPR-GDE-932
 parallel sessions (*continued*)
 ZNCNS INITIALIZE command OPR-GDE-936
 ZNCNS RESET command OPR-GDE-940
 ZNKEY command OPR-GDE-979
 parameter formats GEN-MAC-2
 parameter list, C language APP-GDE-159
 parameter list, C language
 diagrams APP-GDE-159, APP-GDE-160
 parameter passing APP-GDE-159
 parameter passing
 assembler to C APP-GDE-159
 C to assembler APP-GDE-160
 C to C APP-GDE-158
 structures, passing by address APP-GDE-158
 parameters for messages PSM-GDE-4
 PARM field
 CPUID parameter ACF-GDE-29
 DESC parameter ACF-GDE-29
 example ACF-GDE-57
 GENTYPE parameter ACF-GDE-30
 JCL EXEC statement ACF-GDE-29
 PILOTID parameter ACF-GDE-30
 SDPSID parameter ACF-GDE-29
 SUBAREA parameter ACF-GDE-30
 parser CLS-UGR-1447
 parsing functions
 IPRSE_b1dprstr CLS-UGR-1466
 IPRSE_parse CLS-UGR-1456
 partial restore CON-STR-145
 partitioned data sets INS-PRM-407
 partner work block for TPF/APPC SNA-PRM-69
 parts, collection DBS-REF-160
 PAT slot address return CLS-UGR-398
 patch deck
 maintaining MSP-PRM-29
 patching loader offline segment INS-PRM-326
 patching
 changes MIG-GD1-228
 description MIG-GD1-228
 path MPI-PRM-3, MPI-PRM-4
 path active exit MSP-PRM-35
 path activity per CHPID report SPM-PRM-45,
 SPM-PRM-46
 Path card, ALDR INS-PRM-337, INS-PRM-357
 path class MPI-PRM-4, MPI-PRM-5
 path definition record
 initializing OPR-GDE-805
 ZMPIF PDR command OPR-GDE-805
 path information unit (PIU) SNA-PRM-46
 path information unit (PIU) trace facility
 activate MIG-GD1-272, MIG-GD1-295
 changes MIG-GD1-256
 commands MIG-GD1-75, MIG-GD1-76,
 MIG-GD1-78
 deactivate MIG-GD1-272, MIG-GD1-295
 debug MIG-GD1-293
 information about
 displaying OPR-GDE-1052
 overview MIG-GD1-10, MIG-GD1-16,
 MIG-GD1-293, MIG-GD1-294

path information unit (PIU) trace facility *(continued)*

- PIU trace table
 - displaying OPR-GDE-1012
 - real-time tape, writing to OPR-GDE-1052
 - size of OPR-GDE-981
- problem determination MIG-GD1-293
- resources being traced
 - displaying OPR-GDE-1052
- RU bytes traced
 - changing OPR-GDE-1052
- starting OPR-GDE-1052
- status of
 - displaying OPR-GDE-917, OPR-GDE-946, OPR-GDE-1052
- stopping OPR-GDE-1052
- trace table
 - display MIG-GD1-77
 - size MIG-GD1-77
- traces
 - defining OPR-GDE-1052
 - displaying OPR-GDE-1052
- writing to tape
 - starting OPR-GDE-1052
 - stopping OPR-GDE-1052
 - tape queue threshold value OPR-GDE-979
- ZNALS command OPR-GDE-917
- ZNDLU command OPR-GDE-946
- ZNKEY command OPR-GDE-979, OPR-GDE-981
- ZNPIU command OPR-GDE-1012
- ZNTRP command MIG-GD1-295, OPR-GDE-1052

path information unit (PIU) trace table

- Diagnostic Output Formatter PDV-PRM-63
- displaying OPR-GDE-1012
- entries
 - displaying OPR-GDE-1012
- PIU trace facility
 - starting OPR-GDE-1052
 - stopping OPR-GDE-1052
- resources being traced
 - displaying OPR-GDE-1052
- RU bytes traced
 - changing OPR-GDE-1052
- size of
 - displaying OPR-GDE-981
- writing to tape
 - starting OPR-GDE-1052
 - stopping OPR-GDE-1052
 - tape queue threshold value OPR-GDE-979
- ZNKEY command OPR-GDE-979, OPR-GDE-981
- ZNPIU command OPR-GDE-1012
- ZNTRP command OPR-GDE-1052

path information unit (PIU)

- See *also* PIUPT0 utility
- displaying OPR-GDE-1012
- sending SYS-MAC-453
- tracing OPR-GDE-1052
- writing SYS-MAC-453
- ZNPIU command OPR-GDE-1012
- ZNTRP command OPR-GDE-1052

path length CON-STR-15, CON-STR-17

path management

- for DASD OPR-GDE-1113
- ZPATH command OPR-GDE-1113

path name

- absolute path name CON-STR-153
- relative path name CON-STR-153
- what is it? CON-STR-153

path selection APP-GDE-45

path support

- alternate MPI-PRM-5
- class MPI-PRM-4
- dedicated MPI-PRM-5
- load balancing MPI-PRM-5, MPI-PRM-40
- logical MPI-PRM-4
- multiple MPI-PRM-4
- physical MPI-PRM-4

path switch timer

- changing OPR-GDE-974
- defining ACF-GDE-15
- defining
 - SNAKEY macro SNA-PRM-143
 - ZNKEY command SNA-PRM-143
- description of SNA-PRM-143
- displaying OPR-GDE-974
- ZNKEY command OPR-GDE-974

path switch

- CP-CP sessions SNA-PRM-167
- description of SNA-PRM-141
- path switch timer SNA-PRM-143
- path switch timer
 - changing OPR-GDE-974
 - displaying OPR-GDE-974
- process of SNA-PRM-141
- starting OPR-GDE-1037
- starting
 - automatically SNA-PRM-141
 - ZNRTP SWITCH command SNA-PRM-141
- ZNKEY command OPR-GDE-974
- ZNRTP SWITCH command OPR-GDE-1037

path, MPIF SPM-PRM-37

path

- MPIF
 - defining OPR-GDE-790
 - deleting OPR-GDE-793
 - starting OPR-GDE-813
 - stopping OPR-GDE-815
 - tracing OPR-GDE-817
- ZMPIF DEFINE PATH command OPR-GDE-790
- ZMPIF DELETE command OPR-GDE-793
- ZMPIF START command OPR-GDE-813
- ZMPIF STOP command OPR-GDE-815
- ZMPIF TRACE command OPR-GDE-817

paths to DASD, alternate SYS-GEN-87

PAUSC macro SYS-MAC-369

PCID SNA-PRM-238

PDG PDV-PRM-12

PDS (partitioned data set)

- cross-referencing global variable symbols to PDS members INS-PRM-409
- searching for a program INS-PRM-409
- searching for global variable symbols INS-PRM-409

- PER (program event recording) GIM-26
- PER exit INS-PRM-66
- PER interrupts SYS-MAC-58
- PER
 - events traced
 - instruction fetching PDV-PRM-62
 - storage alteration events PDV-PRM-62
 - successful branching PDV-PRM-62
 - user exit PDV-PRM-62
 - ZSPER command
 - start PER tracing PDV-PRM-62
- PER2 exit INS-PRM-67
- PERCC SYS-MAC-371
- PERCC
 - disable PER tracing PDV-PRM-62
 - enable PER tracing PDV-PRM-62
- percentage access per CHPID SPM-PRM-45
- perform special operations on socket
 - socket API function, `ioctl` CLAWGR-185
- perform subsystem function SYS-MAC-392
- performance CON-STR-17, GIM-2
- performance basics SPM-PRM-1
- performance changes
 - logical CPUs
 - shared PR/SM MIG-GD2-109
 - processor run time
 - shared PR/SM MIG-GD2-109
 - processor weights
 - shared PR/SM MIG-GD2-110
 - wait completion
 - shared PR/SM MIG-GD2-109
- performance considerations APP-GDE-280
- performance monitoring
 - data collection MIG-GD1-284
 - data reduction MIG-GD1-284
 - enhancements GIM-29
 - offline facility for virtual file access (VFA)
 - MIG-GD1-248
 - online facility for virtual file access (VFA)
 - MIG-GD1-248
 - overview MIG-GD1-16
- performance of TPFAR AR-USG-97
- performance of TPFAR
 - calculation methods for response time AR-USG-98
 - data reduction reports AR-USG-99
 - segment allocation AR-USG-99
- performance overview SPM-PRM-1
- performance, TCP/IP native stack support CLAWGR-56
- performance
 - data organization CON-STR-95
 - data organization factors CON-STR-95
 - design objective CON-STR-8, CON-STR-13
 - design of communications control CON-STR-169
 - disadvantage CON-STR-49
 - influenced by design of record allocation
 - CON-STR-102
 - monitoring GIM-20
 - monitoring
 - data collection GIM-20
 - data reduction GIM-20
 - performance considerations CON-STR-49
 - performance (*continued*)
 - record duplication CON-STR-121
 - uniprocessor performance CON-STR-49
- permanent virtual circuits (PVC) SNA-PRM-29
- permanently logged CON-STR-177
- permission CLS-UGR-1409
- permission
 - functions CLS-UGR-1405
 - handling in programs CLS-UGR-1409
- persistent sorted bag collection, creating
 - CLS-UGR-1017
- persistent sorted set collection, creating
 - CLS-UGR-1023
- pessimistic concurrency APP-GDE-116, CON-STR-165,
 - DBS-REF-142
- PFSWC macro SYS-MAC-373
- phase 1, recoup functions DBS-REF-106
- phase 1, recoup procedures DBS-REF-110
- phase 1, restore DBS-REF-62
- phase 2, recoup functions DBS-REF-107
- phase 2, recoup procedures DBS-REF-111
- phase 2, restore DBS-REF-64
- phase 3 (package test) mode
 - input for running PTV PDV-PRM-5
- phase 3 (package test)
 - required input sequence PDV-PRM-11
- phase 3, recoup DBS-REF-106, DBS-REF-108
- phase 3, recoup functions DBS-REF-107
- phase 3, recoup procedures DBS-REF-113
- phase 3, restore DBS-REF-64
- phase 4, recoup functions DBS-REF-108
- phase 4, recoup procedures DBS-REF-114
- phase 5-7, recoup functions DBS-REF-109
- phase 5, recoup procedures DBS-REF-114
- phase 6-7, recoup procedures DBS-REF-115
- Phase I testing APP-GDE-283
- Phase III testing APP-GDE-283
- phase, input DBS-REF-97
- phase, output DBS-REF-95
- PHYBC macro SYS-MAC-376
- physical path MPI-PRM-4
- physical separation of data CON-STR-98,
 - CON-STR-129
- physical separation of data
 - relation to subsystem (SS) CON-STR-98
 - subsystem (SS) CON-STR-129
- physical storage block CON-STR-74
- physical storage
 - changes MIG-GD1-213
 - use of
 - dynamic address translation (DAT) facility
 - MIG-GD1-213
 - low address protection MIG-GD1-213
- PID inventory entry, getting CLS-UGR-1301
- PID, determining the DS name CLS-UGR-1280
- PID, getting for the TPF dictionary CLS-UGR-1214
- pilot system identification number PDV-PRM-6
- pilot system
 - creating PDV-PRM-43
- pilot tape CON-STR-148, INS-PRM-261

- pilot tape
 - content MIG-GD1–251
 - create for globals MIG-GD1–203
 - creating OPR-GDE–1477
 - input for running PTV PDV-PRM–6
 - load MIG-GD1–251
 - modify for globals MIG-GD1–203, MIG-GD1–215
 - OSTG output data sets ACF-GDE–31
 - overview PDV-PRM–3
 - SNA configuration data ACF-GDE–31
- pilot tapes SYS-GEN–24, SYS-GEN–137
- pilot tapes
 - basic subsystem PDV-PRM–37
 - creation PDV-PRM–37
 - description of PDV-PRM–17
 - generation of PDV-PRM–37
 - global storage load mode PDV-PRM–37
 - loading data records PDV-PRM–17
 - pilot system identification number PDV-PRM–37
 - RUNID PDV-PRM–37
 - tape requirements PDV-PRM–12
- PILOTID parameter
 - EXEC PARM field ACF-GDE–30
 - ZNOPL LOAD command ACF-GDE–30, ACF-GDE–31
- pinned data, cache DBS-REF–49
- PIO SYS-MAC–405
- PIOFC macro SYS-MAC–378
- PIORC macro SYS-MAC–380
- pipe CON-STR–158
- pipe
 - ZFILE cat command OPR-GDE–438
 - ZFILE command OPR-GDE–434
 - ZFILE echo command OPR-GDE–457
 - ZFILE find command OPR-GDE–463
 - ZFILE grep command OPR-GDE–468
 - ZFILE head command OPR-GDE–473
 - ZFILE hex command OPR-GDE–476
 - ZFILE ls command OPR-GDE–491
 - ZFILE ps command OPR-GDE–509
 - ZFILE sed command OPR-GDE–524
 - ZFILE tail command OPR-GDE–535
 - ZFILE tee command OPR-GDE–538
 - ZFILE tr command OPR-GDE–543
 - ZFILE xargs command OPR-GDE–548
- pipes APP-GDE–136
- PIU (path information unit)
 - trace GIM–26
- PIU to SNA NCP data SYS-MAC–453
- PIU trace facility
 - description SNA-PRM–291
 - maximum tape queue length
 - defining SNA-PRM–293
 - PIU trace table
 - description SNA-PRM–291
 - displaying offline SNA-PRM–301, SNA-PRM–307, SNA-PRM–309
 - displaying online SNA-PRM–295, SNA-PRM–296, SNA-PRM–297
 - including in system error dumps SNA-PRM–313
 - size of, defining SNA-PRM–291
- PIU trace facility (*continued*)
 - PIU trace table (*continued*)
 - writing to real-time tape, starting SNA-PRM–293
 - writing to real-time tape, stopping SNA-PRM–293
 - PIUPRT report
 - compacted SNA-PRM–307
 - creating SNA-PRM–302
 - description SNA-PRM–301
 - examples SNA-PRM–307, SNA-PRM–309
 - formatted SNA-PRM–309
 - PIUPRT utility
 - description SNA-PRM–301
 - PARM= statement SNA-PRM–303
 - PIUPRT report SNA-PRM–307, SNA-PRM–309
 - return codes SNA-PRM–312
 - sample JCL SNA-PRM–302
- RU
 - specifying amount to trace SNA-PRM–293
- starting
 - description SNA-PRM–291
 - procedure SNA-PRM–292
- status of
 - displaying SNA-PRM–294
 - examples SNA-PRM–294
- stopping SNA-PRM–292
- traces
 - defining SNA-PRM–291
 - displaying SNA-PRM–294
 - starting SNA-PRM–291
 - stopping SNA-PRM–292
- PIU trace table
 - compacted display
 - examples SNA-PRM–297, SNA-PRM–307
 - offline SNA-PRM–307
 - online SNA-PRM–296
 - PIUPRT utility SNA-PRM–307
 - ZNPIU command SNA-PRM–296
 - content
 - data MIG-GD1–295
 - printing MIG-GD1–295
 - define entry length MIG-GD1–302
 - define size MIG-GD1–295, MIG-GD1–302
 - description SNA-PRM–291
 - Diagnostic Output Formatter PDV-PRM–63
 - displaying offline
 - compacted report SNA-PRM–307
 - examples SNA-PRM–307, SNA-PRM–309
 - formatted report SNA-PRM–309
 - PIUPRT utility SNA-PRM–301
 - displaying online
 - compacted display SNA-PRM–296
 - examples SNA-PRM–297, SNA-PRM–300
 - formatted display SNA-PRM–297
 - ZNPIU command SNA-PRM–295
 - formatted display
 - examples SNA-PRM–300, SNA-PRM–309
 - offline SNA-PRM–309
 - online SNA-PRM–297
 - PIUPRT utility SNA-PRM–309
 - RH indicators SNA-PRM–312
 - ZNPIU command SNA-PRM–297

- PIU trace table *(continued)*
 - including in system error dumps SNA-PRM-313
 - maximum tape queue length
 - defining SNA-PRM-293
 - size definition MIG-GD1-295, MIG-GD1-302
 - size of, defining SNA-PRM-291
 - writing to real-time tape
 - starting SNA-PRM-293
 - stopping SNA-PRM-293
- PIU trace tape
 - tape queue threshold value
 - changing OPR-GDE-979
 - displaying OPR-GDE-979
 - writing to
 - starting OPR-GDE-1052
 - stopping OPR-GDE-1052
 - ZNKEY command OPR-GDE-979
 - ZNTRP command OPR-GDE-1052
- PIUPRT utility
 - activate MIG-GD1-302
 - changes MIG-GD1-256
 - deactivate MIG-GD1-302
 - debug MIG-GD1-301, MIG-GD1-302
 - description SNA-PRM-301
 - enhancements MIG-GD1-302
 - information in PIU trace table MIG-GD1-302
 - input parameters MIG-GD1-302
 - output format MIG-GD1-303
 - overview MIG-GD1-301, MIG-GD1-302
 - PARM= statement
 - description SNA-PRM-303
 - examples SNA-PRM-306
 - PIU trace table
 - define entry length MIG-GD1-302
 - define size MIG-GD1-302
 - size definition MIG-GD1-302
 - PIUPRT report
 - compacted report SNA-PRM-307
 - creating SNA-PRM-302
 - defining SNA-PRM-303
 - description SNA-PRM-301
 - examples SNA-PRM-307, SNA-PRM-309
 - formatted report SNA-PRM-309
 - print data
 - compacted table format MIG-GD1-303
 - formatted table MIG-GD1-303
 - long format MIG-GD1-303
 - problem determination MIG-GD1-301, MIG-GD1-302
 - return codes
 - description SNA-PRM-312
 - sample JCL SNA-PRM-302
 - specify which resources to trace MIG-GD1-302
 - write to real-time tape MIG-GD1-302
- PIUTAPEQ parameter
 - SNAKEY macro ACF-GDE-17
- PKEYC macro SYS-MAC-381
- PL/I optimizing compiler SPM-PRM-91
- PL/I requirements SYS-GEN-173
- Place on Queue macro SYS-MAC-388
- planning GIM-31
 - planning information
 - checklist MIG-GD1-3
 - migration MIG-GD1-3
 - PLM tapes OPR-GDE-19
 - PLNAC macro SYS-MAC-383
 - PLNSC macro SYS-MAC-386
 - PLONC macro SYS-MAC-388
 - plot report SPM-PRM-39, SPM-PRM-40
 - plot report
 - data reduction MIG-GD1-286
 - description MIG-GD1-286
 - plot/dist option - message SPM-PRM-86
 - PLU (primary logical unit) SNA-PRM-3
 - PN universal character set
 - CUAH program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS LUCS command OPR-GDE-102
 - PNA (program nesting area) APP-GDE-228
 - PNA (program nesting area)
 - nesting limit APP-GDE-228
 - PNAMC macro GEN-MAC-305
 - point for access GEN-MAC-550
 - pointer conversion for ITSTB SYS-MAC-197
 - pointers CLS-UGR-1409
 - pointing
 - cursor at a specified element CLS-UGR-1182, CLS-UGR-1184
 - cursor at first element CLS-UGR-1139
 - cursor at last element CLS-UGR-1153
 - policy agent, TCP/IP native stack support CLAWGR-46
 - polling intervals, SNA ACF-GDE-18
 - polling
 - SNA polling interval
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
 - SNA resources
 - starting OPR-GDE-1019
 - stopping OPR-GDE-1020
 - ZNKEY command OPR-GDE-980
 - ZNPOL START command OPR-GDE-1019
 - ZNPOL STOP command OPR-GDE-1020
 - pool addresses
 - losing DBS-REF-103
 - recovering DBS-REF-104
 - pool conversion
 - fallback MIG-GD2-93
 - migration tools MIG-GD2-92
 - new pool support MIG-GD2-91
 - PXP MIG-GD2-91
 - pool data structures
 - migrating OPR-GDE-1116
 - ZPMIG command OPR-GDE-1116
 - pool directory CON-STR-99, CON-STR-122, SYS-MAC-373
 - pool directory generation tape PDV-PRM-12
 - pool directory set
 - changing the size of OPR-GDE-604
 - ZGFSP SET command OPR-GDE-604
 - pool directory
 - changes MIG-GD1-247

- pool directory *(continued)*
 - description CON-STR-126, MIG-GD1-247
 - generation and maintenance SYS-GEN-157
 - minimum SYS-GEN-73
 - pseudo module CON-STR-129
 - reordering CON-STR-129
- pool duration
 - determining GEN-MAC-366
- pool fallback CON-STR-129
- pool fallback schedule
 - specifying OPR-GDE-597
 - ZGFSP FLB command OPR-GDE-597
- pool file address
 - limitations MIG-GD1-241
 - migration MIG-GD1-248
 - migration restrictions MIG-GD1-248
- pool file records
 - address
 - getting OPR-GDE-584
 - getting by ID OPR-GDE-586
 - altering parameters for OPR-GDE-592
 - changing OPR-GDE-81
 - counts
 - displaying OPR-GDE-325
 - reconciling OPR-GDE-1213
 - deactivating OPR-GDE-1249
 - directory set
 - changing the size of OPR-GDE-604
 - displaying OPR-GDE-357
 - fallback schedule
 - specifying OPR-GDE-597
 - get file storage (GFS)
 - displaying parameters OPR-GDE-594
 - setting options OPR-GDE-599
 - long-term
 - altering allowed use of OPR-GDE-588
 - altering minimum count for OPR-GDE-590
 - ratio dispensing schedule
 - specifying OPR-GDE-602
 - record attributes
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
 - RIAT pool overrides
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - ZRTDM DISPLAY command OPR-GDE-1239
 - ZRTDM MODIFY command OPR-GDE-1242
 - ZAREC command OPR-GDE-81
 - ZDFPC command OPR-GDE-325
 - ZDREC command OPR-GDE-357
 - ZGAFA command OPR-GDE-584
 - ZGAFI command OPR-GDE-586
 - ZGFSP command OPR-GDE-588, OPR-GDE-590, OPR-GDE-592
 - ZGFSP DSP command OPR-GDE-594
 - ZGFSP FLB command OPR-GDE-597
 - ZGFSP OPT command OPR-GDE-599
 - ZGFSP RTO command OPR-GDE-602
 - ZGFSP SET command OPR-GDE-604
- pool file records *(continued)*
 - ZRFPC command OPR-GDE-1213
 - ZSDEA command OPR-GDE-1249
- pool file storage CON-STR-9, CON-STR-99
- pool file storage
 - bit indicator, pool directory SYS-GEN-68
 - database reorganization CON-STR-145
 - directory CON-STR-122, CON-STR-126
 - directory generation CON-STR-148
 - directory maintenance CON-STR-148
 - directory reordering CON-STR-129
 - dispensing pool record CON-STR-123
 - duplication SYS-GEN-68
 - expansion CON-STR-145
 - fallback CON-STR-129
 - file recoup CON-STR-147
 - longevity SYS-GEN-68
 - management of CON-STR-124
 - minimum, pool directory SYS-GEN-73
 - ordinal number CON-STR-123
 - pool directory generation CON-STR-129
 - pool types SYS-GEN-69
 - pseudo module CON-STR-129
 - RAMFIL parameters SYS-GEN-72
 - ratio dispensing CON-STR-128
 - ratio factor CON-STR-128
 - record size SYS-GEN-68
 - record type CON-STR-123
 - recovering long-term pool records CON-STR-147
 - release address CON-STR-128
 - return address CON-STR-128
 - section CON-STR-124
 - segment CON-STR-125
- pool files
 - 32-way loosely coupled pool support DBS-REF-25
 - characteristics DBS-REF-22
 - file address formats DBS-REF-22
 - function switches DBS-REF-30
 - functional description DBS-REF-21
 - GET file storage DBS-REF-27
 - introduction DBS-REF-21
 - maintenance DBS-REF-23
 - management functions DBS-REF-27
 - online directory capture DBS-REF-27
 - pool count reconciliation DBS-REF-27
 - pool directory update (PDU) DBS-REF-27
 - pool generation DBS-REF-23
 - recoup DBS-REF-27
 - release file storage DBS-REF-29
- pool function switches
 - resetting OPR-GDE-1127
 - ZPOOL RPFS command OPR-GDE-1127
- pool generation, pool files DBS-REF-23
- pool maintenance package
 - changes to for new pool support MIG-GD2-89
 - DYOPM MIG-GD2-90
 - functions and keypoint 9 (CTK9) MIG-GD2-90
 - halfword directory ordinals MIG-GD2-89
 - halfword fields MIG-GD2-90
 - keypoint filing MIG-GD2-90
 - keypoint retrieval MIG-GD2-90

- pool maintenance package (*continued*)
 - offline pool maintenance program (DYOPM) MIG-GD2-90
 - utilities and keypoint 9 (CTK9) MIG-GD2-90
- pool maintenance program SYS-GEN-73
- pool management functions
 - getfc CLS-UGR-258
 - re1fc CLS-UGR-423
 - r1cha CLS-UGR-437
- pool management
 - commands DBS-REF-30
- pool ordinal number
 - changes MIG-GD1-248
- pool record CON-STR-97, CON-STR-99
- pool record reference CON-STR-106
- pool record type CON-STR-99
- pool record type
 - 4K long-term (4LTx) CON-STR-103
 - 4K long-term duplicated (4DPx) CON-STR-103
 - 4K short-term (4STx) CON-STR-103
 - large long-term (LLTx) CON-STR-103
 - large long-term duplicated (LDPx) CON-STR-103
 - large short-term (LSTx) CON-STR-103
 - small long-term (SLTx) CON-STR-103
 - small long-term duplicated (SDPx) CON-STR-103
 - small short-term (SSTx) CON-STR-103
- pool record types CON-STR-103
- pool record, owning control record DBS-REF-214
- pool record
 - initializing record ID CON-STR-104
 - layout changes MIG-GD1-248
 - long-term CON-STR-103
 - longevity CON-STR-103
 - record ID CON-STR-104, CON-STR-105
 - record type CON-STR-99
 - reference to CON-STR-106
 - short-term CON-STR-103
 - types
 - changes MIG-GD1-248
 - database reorganization MIG-GD1-284
 - ordinal MIG-GD1-246
 - use of CON-STR-100
- pool records SYS-GEN-290
- pool records, TPFCS DBS-REF-167, DBS-REF-218
- pool resource manager DBS-REF-125
- pool section file storage GEN-MAC-252
- pool section
 - description CON-STR-124
 - fallback CON-STR-129
 - short-term pool recycling CON-STR-129
- pool segment
 - description CON-STR-125
- pool storage
 - See also* random pool file area
 - access scheme APP-GDE-256
 - duplicate records APP-GDE-255
 - long-term records APP-GDE-255
 - short-term records APP-GDE-255
 - single records APP-GDE-255
 - use example APP-GDE-255
- pool type name
 - #IP4DP MIG-GD1-248
 - #IP4LT MIG-GD1-248
 - #IP4ST MIG-GD1-248
 - #IPLDP MIG-GD1-248
 - #IPLLT MIG-GD1-248
 - #IPLST MIG-GD1-248
 - #IPSDP MIG-GD1-248
 - #IPSLT MIG-GD1-248
 - #IPSST MIG-GD1-248
 - description MIG-GD1-248
- pool
 - FARF address generation SYS-MAC-231
 - get file address GEN-MAC-248
 - records GEN-MAC-6
 - records
 - use of GEN-MAC-6
 - reordering GEN-MAC-6
 - section GEN-MAC-6
 - section
 - definition of GEN-MAC-6
 - file address GEN-MAC-329
 - file storage GEN-MAC-252
 - file storage address GEN-MAC-258
 - storage GEN-MAC-228
 - storage
 - get GEN-MAC-228
 - types GEN-MAC-6
- pools APP-GDE-254, CON-STR-90
- pools (short term) AR-USG-30
- pools
 - address limitations MIG-GD1-241
 - allocate MIG-GD1-217
 - allocating INS-PRM-406
 - define MIG-GD1-222
 - defining INS-PRM-405
 - fall back to a TPF 3.1 system MIG-GD1-247
 - format of input slots for defining pools MIG-GD1-222
 - how to access MIG-GD1-306
 - keypoint 9 (CTK9) MIG-GD1-248
 - migration considerations MIG-GD1-247, MIG-GD1-248
 - pool data structures MIG-GD1-248
 - pool directories MIG-GD1-247
 - pool file addresses MIG-GD1-248
 - pool ordinal number MIG-GD1-248
 - pool record layout MIG-GD1-248
 - pool record type MIG-GD1-248
 - pool type names MIG-GD1-248
- POP server
 - general discussion CLAWGR-253
- port CLAWGR-120
- ported code, compile options for TPF programs PSM-GDE-25
- porting an Internet server application APP-GDE-167
- porting socket applications CLAWGR-7
- positional list building GEN-MAC-56
- positional parameters PSM-GDE-4
- positioning, cursors APP-GDE-110
- POSIX library functions
 - abort CLS-UGR-7

POSIX library functions *(continued)*

access CLS-UGR-9
 chdir CLS-UGR-30
 chmod CLS-UGR-32
 chown CLS-UGR-35
 clearerr CLS-UGR-42
 close CLS-UGR-44
 closedir CLS-UGR-46
 closelog CLS-UGR-48
 creat CLS-UGR-54
 dup CLS-UGR-97
 dup2 CLS-UGR-99
 fchmod CLS-UGR-123
 fchown CLS-UGR-125
 fclose CLS-UGR-127
 fcntl CLS-UGR-129
 fdopen CLS-UGR-137
 feof CLS-UGR-141
 ferror CLS-UGR-143
 fflush CLS-UGR-144
 fgetc CLS-UGR-146
 fgetpos CLS-UGR-148
 fgets CLS-UGR-150
 fileno CLS-UGR-156
 fopen CLS-UGR-199
 fprintf CLS-UGR-201
 fputc CLS-UGR-209
 fputs CLS-UGR-211
 fread CLS-UGR-213
 freopen CLS-UGR-215
 fscanf CLS-UGR-217
 fseek CLS-UGR-226
 fsetpos CLS-UGR-228
 fstat CLS-UGR-230
 fsync CLS-UGR-232
 ftell CLS-UGR-234
 ftok CLS-UGR-235
 ftruncate CLS-UGR-237
 fwrite CLS-UGR-239
 getc CLS-UGR-246
 getchar CLS-UGR-246
 getcwd CLS-UGR-252
 getegid CLS-UGR-254
 geteuid CLS-UGR-256
 getgid CLS-UGR-260
 getgrgid CLS-UGR-261
 getgrnam CLS-UGR-263
 getpid CLS-UGR-267
 getppid CLS-UGR-268
 getpwnam CLS-UGR-269
 getpwuid CLS-UGR-271
 gets CLS-UGR-273
 getuid CLS-UGR-276
 kill CLS-UGR-298
 link CLS-UGR-302
 lseek CLS-UGR-315
 lstat CLS-UGR-317
 mkdir CLS-UGR-326
 mkfifo CLS-UGR-328
 mknod CLS-UGR-331
 open CLS-UGR-380

POSIX library functions *(continued)*

opendir CLS-UGR-384
 openlog CLS-UGR-386
 pause CLS-UGR-388
 perror CLS-UGR-389
 pipe CLS-UGR-391
 printf CLS-UGR-201
 putc CLS-UGR-400
 putchar CLS-UGR-400
 puts CLS-UGR-402
 read CLS-UGR-410
 readdir CLS-UGR-415
 readlink CLS-UGR-417
 remove CLS-UGR-427
 rename CLS-UGR-428
 rewind CLS-UGR-431
 rewinddir CLS-UGR-433
 rmdir CLS-UGR-439
 scanf CLS-UGR-217
 setbuf CLS-UGR-460
 setegid CLS-UGR-462
 seteuid CLS-UGR-466
 setgid CLS-UGR-468
 setuid CLS-UGR-472
 setvbuf CLS-UGR-474
 shmat CLS-UGR-476
 shmctl CLS-UGR-478
 shmdt CLS-UGR-481
 shmget CLS-UGR-483
 sigaction CLS-UGR-486
 sigaddset CLS-UGR-490
 sigdelset CLS-UGR-491
 sigemptyset CLS-UGR-492
 sigfillset CLS-UGR-493
 sigismember CLS-UGR-494
 sigpending CLS-UGR-498
 sigprocmask CLS-UGR-499
 sigsuspend CLS-UGR-502
 sleep CLS-UGR-507
 sprintf CLS-UGR-201
 sscanf CLS-UGR-217
 stat CLS-UGR-513
 symlink CLS-UGR-521
 syslog CLS-UGR-523
 system CLS-UGR-527
 tmpfile CLS-UGR-551
 tmpnam CLS-UGR-552
 tpf_dlckc CLS-UGR-585
 tpf_is_RPCServer_auto_restarted CLS-UGR-607
 tpf_lemic CLS-UGR-612
 tpf_movec CLS-UGR-616
 tpf_process_signals CLS-UGR-622
 tpf_RPC_options CLS-UGR-626
 umask CLS-UGR-659
 ungetc CLS-UGR-664
 unlink CLS-UGR-668
 utime CLS-UGR-676
 vfprintf CLS-UGR-678
 vprintf CLS-UGR-680
 vsprintf CLS-UGR-682
 wait CLS-UGR-684

POSIX library functions *(continued)*
 waitpid CLS-UGR-687
 WEXITSTATUS CLS-UGR-690
 WIFSIGNALED CLS-UGR-695
 write CLS-UGR-696
 WTERMSIG CLS-UGR-699
 POSIX process model
 by the TPF system APP-GDE-167
 post interrupt (PI) vector
 add work to specified I-stream macro (\$ADPC)
 CON-STR-87
 dispatch control list CON-STR-77
 Post Office Protocol (POP) server
 checking status of OPR-GDE-714
 starting OPR-GDE-714
 stopping OPR-GDE-714
 post processing
 postprocessor control program (PPCP) changes
 MIG-GD2-118
 tapes MIG-GD1-261
 POST_ON_RECEIPT SNA-PRM-75
 POSTC GEN-MAC-14
 POSTC macro GEN-MAC-306
 POSTC
 define user event area GEN-MAC-183
 postprocessor control program (PPCP)
 changes MIG-GD2-118
 postprocessor
 See PARM
 pre-phase 1, recoup functions DBS-REF-104
 pre-phase 1, recoup procedures DBS-REF-109
 precision argument, fprintf family CLS-UGR-204
 precompiler (DB2)
 bind file AR-USG-32
 bind process AR-USG-32
 DEC parameter AR-USG-34
 HOST parameter AR-USG-34
 VERSION parameter AR-USG-34
 precycle above 1052 SYS-GEN-32
 predefined record type names SYS-MAC-232
 preemptive I/O request SYS-MAC-378
 preemptive I/O return SYS-MAC-380
 prefix page PDV-PRM-91
 prefix page chain chase SYS-MAC-366
 prefix register CON-STR-27
 prefix, dump MSP-PRM-43
 prefix, link-label
 changing SPM-9, SPM-32, SPM-55, SPM-64,
 SPM-66, SPM-79
 prefix
 ANSI C functions MIG-GD1-238
 application program impact MIG-GD1-238
 code MIG-GD1-238
 default for SERRC macro calls MIG-GD1-238
 distinguish your system error numbers from IBM
 MIG-GD1-238
 IBM reserved MIG-GD1-238
 number for system errors MIG-GD1-19
 SERRC macro call impact MIG-GD1-238
 use to
 distinguish between system errors MIG-GD1-238
 prefix *(continued)*
 use to *(continued)*
 group system errors MIG-GD1-238
 prefixing CON-STR-27
 premount DBS-REF-14
 prepare a CLAW adapter CLAWGR-397
 prepare for CLAW activity CLAWGR-396
 prepare to commit CLS-UGR-714
 PREPARE_TO_RECEIVE SNA-PRM-75
 preprocessor statements SPM-PRM-91
 prerequisites for the TPF 4.1 system
 hardware MIG-GD1-185, MIG-GD2-35
 product features MIG-GD1-196, MIG-GD2-46
 programming requirements MIG-GD1-196,
 MIG-GD2-46
 software MIG-GD1-196, MIG-GD2-46
 prerequisites, database reorganization DBS-REF-89
 presentation handling SNA-PRM-6
 presentation services input list queue purge
 SYS-MAC-325
 presentation services, TPF/APPC SNA-PRM-59,
 SNA-PRM-69
 presentation services (PS)
 changes MIG-GD1-251
 preserve stack environment CLS-UGR-470
 primary global area
 layout MIG-GD1-209
 primary global directory keypointing GEN-MAC-266
 primary globals INS-PRM-243
 primary host node SNA-PRM-4
 primary image
 setting OPR-GDE-635
 ZIMAG PRIMARY command OPR-GDE-635
 primary index AR-USG-80
 primary key AR-USG-80
 primary logical unit (PLU) SNA-PRM-3
 primary logical unit (PLU)
 displaying OPR-GDE-946
 processing for TPF/APPC MIG-GD1-76
 ZNDLU command OPR-GDE-946
 primary LU
 ANTNME statement
 APPL parameter ACF-GDE-37
 threads ACF-GDE-37
 primary macro table
 add macro definitions MIG-GD1-232
 primary nucleus area SYS-GEN-34
 primary record CON-STR-102, CON-STR-121
 primary records, TPFCS DBS-REF-167
 primary virtual address space CON-STR-26
 prime CRAS SNA-PRM-49
 prime GOA INS-PRM-261, INS-PRM-313
 prime module MSP-PRM-11
 priming (CTC) SNA-PRM-222
 Print a Line macro GEN-MAC-309
 print
 PIU data MIG-GD1-303
 printer assignment GEN-MAC-517
 printer message SYS-MAC-422

printers

- 1403 printer
 - unit record status table OPR-GDE-96, OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set OPR-GDE-102
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
- 3211 printer
 - form control buffer OPR-GDE-100
 - unit record status table OPR-GDE-96, OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set OPR-GDE-102
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS FCBL command OPR-GDE-100
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
- 3270 SDLC hardcopy resource
 - reactivating OPR-GDE-916
 - rerouting OPR-GDE-920
 - ZNACT command OPR-GDE-916
 - ZNALT command OPR-GDE-920

priorities MPI-PRM-20

priority class shutdown levels

- changing OPR-GDE-1332
- displaying OPR-GDE-1332
- ZSYSL command OPR-GDE-1332

priority of ECB APP-GDE-227

private area, ECB MSP-PRM-22

private areas, ECB GIM-23

private program

- description MIG-GD1-219
- how to load MIG-GD1-219

private programs INS-PRM-403

private storage

- get GEN-MAC-244
- how to access MIG-GD1-307

PRLNC macro GEN-MAC-309

problem determination

- block checking mode MIG-GD1-293, MIG-GD1-299
- overview MIG-GD1-293
- path information unit (PIU) trace facility MIG-GD1-293, MIG-GD1-301
- PIUPRT utility MIG-GD1-302
- program event recording (PER) trace facility MIG-GD1-293
- real-time trace (RTT) MIG-GD1-293
- register and S/370 branch trace facility MIG-GD1-293
- register trace facility MIG-GD1-295
- SNA I/O trace facility MIG-GD1-293, MIG-GD1-303
- system traces MIG-GD1-293
- tools MIG-GD1-293
- virtual-equals-real (VEQR) mode MIG-GD1-293

problem state SYS-MAC-344

problems associated with testing PDV-PRM-1

procedure correlation identifier (PCID)

- converting OPR-GDE-943
- description MIG-GD1-295
- entries
 - number of OPR-GDE-978
- logical unit (LU)
 - displaying OPR-GDE-946
- ZNCVT command OPR-GDE-943
- ZNDLU command OPR-GDE-946
- ZNKEY command OPR-GDE-978

procedures for test activation PDV-PRM-13

process attributes

- effective group ID APP-GDE-170
- effective user ID APP-GDE-170

process control

- APIs APP-GDE-169
- POSIX-compliant APIs APP-GDE-168
- TPF-unique APIs APP-GDE-169

process group APP-GDE-168

process model

- AOR APP-GDE-173, APP-GDE-176, APP-GDE-180
- DAEMON APP-GDE-173, APP-GDE-177, APP-GDE-181, CLAWGR-236
- NOLISTEN APP-GDE-173, APP-GDE-177, APP-GDE-188, CLAWGR-236
- NOWAIT APP-GDE-172, APP-GDE-176, APP-GDE-178, APP-GDE-182
- POSIX APP-GDE-167
- RPC APP-GDE-173, APP-GDE-177, CLAWGR-236
- WAIT APP-GDE-172, APP-GDE-176, APP-GDE-179, APP-GDE-183

process models

- AOR CON-STR-189
- DAEMON CON-STR-188
- NOLISTEN CON-STR-189
- NOWAIT CON-STR-188
- RPC CON-STR-189
- WAIT CON-STR-188

process outstanding signals CLS-UGR-622

process selection vector (PSV) SNA-PRM-253

Process Selection Vector (PSV) SNA-PRM-22, SNA-PRM-29, SNA-PRM-30

process selection vector (PSV) table

- creating entries in GEN-MAC-275
- defining the start and end GEN-MAC-277
- IPSVE macro GEN-MAC-275
- IPSVT macro GEN-MAC-277

process selection vector (PSV)

- input message processing SNA-PRM-253
- output message processing SNA-PRM-254
- table changes MIG-GD1-252

Process Selection Vector (PSV)

- NPSI/FTPI command type SNA-PRM-51
- NPSI/GATE commands SNA-PRM-51

process selection vector

- description of ACF-GDE-1
- IPSVE macro ACF-GDE-1
- IPSVT macro ACF-GDE-1
- name table area ACF-GDE-4
- names ACF-GDE-43

- process selection vector (*continued*)
 - report
 - description of ACF-GDE-32
 - example ACF-GDE-63
- process that starts a TPF application
 - process inheritance APP-GDE-168
- process trace postprocessor CLAWGR-350
- process trace postprocessor, sample JCL CLAWGR-350
- process
 - abstraction of an Entry CON-STR-39, CON-STR-108
 - child APP-GDE-167, APP-GDE-168
 - concurrent processes CON-STR-22, CON-STR-54
 - contrast with program CON-STR-39
 - displaying information about OPR-GDE-509
 - ending OPR-GDE-485
 - exit status APP-GDE-170
 - general discussion APP-GDE-167
 - group APP-GDE-168
 - group ID APP-GDE-168
 - ID APP-GDE-167
 - inheritance APP-GDE-168
 - sequential process CON-STR-22
 - simultaneous processes CON-STR-22, CON-STR-54
 - ZFILE kill command OPR-GDE-485
 - ZFILE ps command OPR-GDE-509
- processing an input message CON-STR-57
- processing center CON-STR-2
- processing electronic mail (e-mail) CLS-UGR-320
- processing Internet mail CLS-UGR-320
- processing list APP-GDE-228
- processing of an entry is complete macro GEN-MAC-190
- processing of an entry is complete macro (EXITC) CON-STR-69, CON-STR-92
- processing overview
 - program test vehicle (PTV) PDV-PRM-16
 - real-time trace PDV-PRM-51
 - STC PDV-PRM-45
- processing SNMP Requests CLAWGR-91
- processing, message SPM-PRM-2
- processing
 - capture DBS-REF-56
 - description DBS-REF-91
 - module up and down DBS-REF-46
 - module, up/down DBS-REF-42
 - overview, capture and restore DBS-REF-55
- processor communications SYS-MAC-437
- processor identification MSP-PRM-3
- processor lock CON-STR-44
- processor ordinal number to CPUID conversion GEN-MAC-60
- processor resource ownership facility MSP-PRM-35
- processor resource ownership table MSP-PRM-35
- processor shared queues, TPF MQSeries APP-GDE-83, APP-GDE-85
- processor status interface GEN-MAC-127
- processor status management services OPR-GDE-1132
- processor status table MSP-PRM-35
- processor unique queues, TPF MQSeries APP-GDE-83
- processor unique resources in loosely coupled system MSP-PRM-34
- processor utilization SPM-PRM-23
- processor
 - definition SYS-GEN-31
 - failures
 - resource impact MIG-GD1-273
 - records
 - access a virtual file access (VFA) candidate MIG-GD1-247
 - FACZC utility MIG-GD1-247
 - how to access MIG-GD1-247
 - resource ownership table (PROT) SYS-GEN-10
 - run time
 - shared PR/SM MIG-GD2-109
 - shared record CON-STR-132
 - support SYS-GEN-31
 - unique hardware/software SYS-GEN-10
 - unique record CON-STR-132, CON-STR-134
 - weights
 - shared PR/SM MIG-GD2-110
- processors, IPC MSP-PRM-35
- processors
 - deactivating OPR-GDE-1132
 - lock names
 - deleting OPR-GDE-1214
 - displaying OPR-GDE-1216
 - status information
 - displaying OPR-GDE-780, OPR-GDE-1132
 - ZMIGR command OPR-GDE-780
 - ZPSMS command OPR-GDE-1132
 - ZRHLD DELETE command OPR-GDE-1214
 - ZRHLD DISPLAY command OPR-GDE-1216
- proctor handling SNA-PRM-6
- product feature
 - requirements MIG-GD1-196, MIG-GD2-46
 - Transmission Control Protocol/Internet Protocol full-duplex socket support MIG-GD1-201, MIG-GD2-51
- production environment for C function trace
 - tracing PDV-PRM-136
- PROF
 - ownership MSP-PRM-35
- PROGC macro SYS-MAC-390
- program CON-STR-39
- program activity data collection SYS-MAC-24
- program activity
 - ENTxc/BACKC SYS-MAC-24
- program allocation GIM-24
- program allocation table CON-STR-79, MSP-PRM-31
- program allocation table (IPAT)
 - allocation
 - allocate new E-type programs in spare slots MIG-GD1-225
 - allocate spare program slots MIG-GD1-222
 - changes MIG-GD1-11, MIG-GD1-217, MIG-GD1-287
 - commands MIG-GD1-68
 - create MIG-GD1-217
 - description MIG-GD1-217

- program allocation table (IPAT) *(continued)*
 - display table MIG-GD1-68, MIG-GD1-268
 - linkage settings
 - display MIG-GD2-74
 - restrict MIG-GD2-74
 - location of the demand counter MIG-GD1-219
 - modify table MIG-GD1-268
 - overview MIG-GD1-16
 - produced by system allocator (SAL) MIG-GD1-224
 - run SALO to create MIG-GD1-203
 - update for coupling facility migration MIG-GD2-462
 - use by system allocator (SALO) MIG-GD1-217, MIG-GD1-224
- program allocation table (PAT)
 - changing OPR-GDE-71
 - displaying OPR-GDE-346, OPR-GDE-352
 - loading changes OPR-GDE-1078
 - ZAPAT command OPR-GDE-71
 - ZDPAT command OPR-GDE-346
 - ZDPLT command OPR-GDE-352
 - ZOLDR LOAD command OPR-GDE-1078
- program allocation table
 - creation of INS-PRM-400
- program allocation
 - adding function switches INS-PRM-406
 - allocation considerations MIG-GD1-216
 - changes MIG-GD1-216
 - description MIG-GD1-218
 - E-type loader MIG-GD1-217
 - format of input statements MIG-GD1-218
 - macro authorizations MIG-GD1-216
 - options MIG-GD1-216
 - overview MIG-GD1-17
 - self-modifying programs MIG-GD1-219
 - statement size MIG-GD1-218
 - VFA candidate options MIG-GD1-216
- program animation CON-STR-108
- program authorization privileges MIG-GD1-223
- program base identification (PBI) CON-STR-136
- program categories APP-GDE-5
- program categories
 - ECB-controlled APP-GDE-6
 - non-ECB controlled APP-GDE-6
- Program Check recovery SYS-MAC-66
- program classification CON-STR-80
- program classification
 - control program CON-STR-80
 - ECB-controlled program CON-STR-83
- program collector OPR-GDE-1457
- program collector logic changes MIG-GD1-233
- program commentary APP-GDE-281
- program details
 - for a package SPM-PRM-63
 - report SPM-PRM-62
- program enters
 - for a package SPM-PRM-64
 - report SPM-PRM-63
- program event recording (PER) options
 - changing OPR-GDE-1288
 - displaying OPR-GDE-1288
 - ZSPER command OPR-GDE-1288
- program event recording (PER) trace facility
 - activate MIG-GD1-272
 - change MIG-GD1-272
 - CP TRACE facility MIG-GD1-301
 - debug MIG-GD1-293
 - display status MIG-GD1-272
 - functions MIG-GD1-301
 - modify data MIG-GD1-21
 - options
 - alter MIG-GD1-81
 - display MIG-GD1-81
 - overview MIG-GD1-10, MIG-GD1-16, MIG-GD1-272, MIG-GD1-293, MIG-GD1-294, MIG-GD1-300
 - performance cost MIG-GD1-294
 - problem determination MIG-GD1-293
 - reallocate programs as common MIG-GD1-301
 - run in a native system MIG-GD1-301
 - run
 - in a native system MIG-GD1-301
 - on VM MIG-GD1-301
 - set system mask (SSM)instructions MIG-GD1-231
 - test environment MIG-GD1-301
 - user exit MIG-GD1-51
- program fetch CON-STR-58
- program header
 - location of the demand counter MIG-GD1-219
- program ID in record header APP-GDE-267
- program legend SPM-PRM-67
- program legend report SPM-PRM-66
- program linkage CON-STR-78
- program linkage
 - programs that are not link edited MIG-GD1-227
 - save information MIG-GD1-217
 - use of ECB program nesting areas MIG-GD1-217
- program loadsets
 - loading INS-PRM-368
- program locking
 - main storage MIG-GD1-225
 - storage MIG-GD1-306
- program macro usage GEN-MAC-1
- program migration GEN-MAC-399
- program names and enters SPM-PRM-62
- program names and enters report SPM-PRM-62
- program nesting CON-STR-80
- program nesting area CON-STR-80
- program nesting
 - overview MIG-GD1-16
- program on-file enters for a package SPM-PRM-64
- program on-file enters report SPM-PRM-64
- program prolog area function name information SYS-MAC-261
- Program Record Determination macro GEN-MAC-163
- program record header APP-GDE-265
- program record
 - changes MIG-GD1-241
 - get file addresses MIG-GD1-306
 - number
 - changes MIG-GD1-217
 - description MIG-GD1-217
 - ordinal number MIG-GD1-217

- program record *(continued)*
 - number *(continued)*
 - program allocation MIG-GD1-218
 - size MIG-GD1-241
- program reduction report
 - changes MIG-GD1-290
 - data reduction MIG-GD1-290
- program security PDV-PRM-4
- program segment name PDV-PRM-10
- program segmentation
 - description for database administration MIG-GD1-248
- program sharing table (PST)
 - content MIG-GD1-224
 - description MIG-GD1-224
 - for the system allocator (SALO) MIG-GD1-224
 - overview MIG-GD1-16
- program size APP-GDE-266
- program size
 - description for database administration MIG-GD1-248
- program slot
 - add programs without a full load MIG-GD1-222
 - allocate spare slots MIG-GD1-222
 - delete programs without a full load MIG-GD1-222
 - format of input statements for allocating spare program slots MIG-GD1-222
 - how to load programs MIG-GD1-222
- program status word (PSW) CON-STR-33
- program status word (PSW)
 - IPL program wait states OPR-GDE-5
 - machine check interruption handler disabled wait states OPR-GDE-7
 - relation to interrupt processing CON-STR-33
 - stand-alone dump (SADUMP) utility
 - description of OPR-GDE-1450
 - I/O error OPR-GDE-1450
 - normal end of job OPR-GDE-1450
 - tape mounting OPR-GDE-1450
 - unexpected system interrupt OPR-GDE-1450
 - system error program wait states OPR-GDE-6
 - system initialization wait states OPR-GDE-6
- program status word mask bits CLS-UGR-325
- program structure, assembler coding practices PSM-GDE-27
- program support changes GIM-24
- program tables, modifying SYS-GEN-181
- program tables, SPPGML SYS-GEN-178
- program termination
 - atexit library function CLS-UGR-17
 - exit library function CLS-UGR-115
 - a program CLS-UGR-115
 - abnormal program termination
 - abort library function CLS-UGR-7
 - assert function CLS-UGR-15
- program test vehicle (PTV) APP-GDE-284, APP-GDE-288
- program test vehicle (PTV)
 - APTV MIG-GD1-300
 - control blocks PDV-PRM-14
 - control of SFDT PDV-PRM-53

- program test vehicle (PTV) *(continued)*
 - control program MIG-GD1-300
 - deactivate MIG-GD1-82
 - description of OPR-GDE-1453, PDV-PRM-1, PDV-PRM-17
 - diagnostic output formatter (DOF), input to OPR-GDE-1456
 - displaying message block OPR-GDE-1321
 - message stream PDV-PRM-15
 - modes OPR-GDE-1453
 - output
 - diagnostic output formatter PDV-PRM-64
 - overview MIG-GD1-300, PDV-PRM-16
 - pausing OPR-GDE-1322
 - phase I
 - macros MIG-GD1-300
 - unit test MIG-GD1-296
 - pilot tapes PDV-PRM-17
 - program loads MIG-GD1-300
 - required input sequence
 - phase 3 (package test) PDV-PRM-11
 - system test vehicle (STV) PDV-PRM-11
 - reset MIG-GD1-82
 - running OPR-GDE-1453
 - sample JCL
 - for phase 3 (package test) mode PDV-PRM-11
 - for system test vehicle (STV) mode PDV-PRM-11
 - sample output PDV-PRM-15
 - set to
 - phase 3 MIG-GD1-82
 - system test vehicle (STV) phase MIG-GD1-82
 - setting the system clock OPR-GDE-1319
 - starting OPR-GDE-1323
 - stopping OPR-GDE-1325
 - test mode
 - controlling OPR-GDE-1326
 - test unit tape OPR-GDE-1477
 - ZSTVS CLOCK command OPR-GDE-1319
 - ZSTVS DSPLY command OPR-GDE-1321
 - ZSTVS PAUSE command OPR-GDE-1322
 - ZSTVS START command OPR-GDE-1323
 - ZSTVS STOPT command OPR-GDE-1325
 - ZSTVS TEST command OPR-GDE-1326
- program test vehicle
 - dump options PDV-PRM-65
 - offline PDV-PRM-61
 - output on log tape PDV-PRM-61
- Program Test Vehicle
 - description of PDV-PRM-3
- program testing PDV-PRM-1
- program version
 - information
 - #PVRx record types MIG-GD1-207
 - content MIG-GD1-207
 - define record types MIG-GD1-207
 - overview MIG-GD1-17
- records
 - #PVRx record types MIG-GD1-207
 - define record types MIG-GD1-207
- program
 - 4 KB programs MIG-GD1-241

program (*continued*)

- allocate MIG-GD1-216, MIG-GD1-217
- application program CON-STR-39, CON-STR-83
- changes MIG-GD1-305
- chart APP-GDE-56
- collection/reduction SPM-PRM-84
- combining programs into 4 KB records
MIG-GD1-241
- commentary APP-GDE-281
- common programs MIG-GD1-219
- conserve DASD space MIG-GD1-248
- contrast with process CON-STR-39
- core resident programs MIG-GD1-218,
MIG-GD1-221, MIG-GD1-225
- critical region CON-STR-42
- DASD allocation requirements MIG-GD1-248
- data analysis SPM-PRM-61
- delay CON-STR-43
- develop MIG-GD1-305
- E-type program CON-STR-83
- E-type programs MIG-GD1-248
- ECB-controlled program CON-STR-83
- EVENT facility MIG-GD1-305
- file resident programs MIG-GD1-218, MIG-GD1-219
- global area addresses MIG-GD1-305
- I-stream unique programs MIG-GD1-219
- installing data collection/reduction SPM-PRM-7
- levels APP-GDE-228
- library name APP-GDE-227
- main storage resident programs MIG-GD1-218
- modify to share data between ECBs MIG-GD1-305
- nesting SYS-GEN-42
- organization APP-GDE-279
- packing into 4 KB records MIG-GD1-241
- performance considerations APP-GDE-280
- private programs MIG-GD1-219
- program attributes APP-GDE-56
- program characteristics APP-GDE-56
- program generation SYS-GEN-15
- program loading SYS-GEN-17
- program loading
 - diagram SYS-GEN-18
 - system allocator SYS-GEN-17
 - system loader SYS-GEN-17
- program segment CON-STR-40
- reentrant program CON-STR-39, CON-STR-42
- resegmenting into 4 KB records MIG-GD1-241
- serially reusable program CON-STR-42
- shared programs MIG-GD1-219
- sharing APP-GDE-279
- system ECB-controlled program CON-STR-83
- system program CON-STR-39
- tables SYS-GEN-36
- test vehicle (PTV) SYS-GEN-157
- test vehicle (PTV)
 - PTV keyword SYS-GEN-157
 - support requirements SYS-GEN-157
- transaction program CON-STR-183
- unprotected programs MIG-GD1-219

Programming Considerations for Session Initiation
SNA-PRM-22

- programming notes, general files DBS-REF-18
- programming rules APP-GDE-142, APP-GDE-147,
APP-GDE-149, APP-GDE-154, APP-GDE-161
- programming
 - conventions APP-GDE-7, APP-GDE-18,
APP-GDE-240, APP-GDE-246
 - tips APP-GDE-282
- programs MSP-PRM-27
- programs
 - accepting a loadset INS-PRM-372
 - activating INS-PRM-369
 - activating selectively INS-PRM-369
 - allocating GIM-24, GIM-25, INS-PRM-369,
INS-PRM-400
 - allocation parameters
 - changing OPR-GDE-71
 - displaying OPR-GDE-346, OPR-GDE-352
 - altering and displaying MSP-PRM-27
 - buffer control area (BCA) core address
displaying OPR-GDE-1426
 - buffer core address
displaying OPR-GDE-1426
 - buffer type
displaying OPR-GDE-1426
 - changing OPR-GDE-77
 - changing allocation characteristics INS-PRM-371
 - deactivating a loadset INS-PRM-370
 - deleting a loadset INS-PRM-370
 - displaying OPR-GDE-349
 - excluding from a loadset INS-PRM-370
 - filing status
displaying OPR-GDE-1426
 - finding in a PDS INS-PRM-409
 - loading INS-PRM-362
 - loading to a storage medium INS-PRM-367
 - loading to GDS INS-PRM-419
 - loading to tape INS-PRM-419
 - loading to VRDR INS-PRM-420
 - locating in VFA OPR-GDE-1426
 - locking OPR-GDE-1231
 - program record
displaying OPR-GDE-1426
 - reincluding in a loadset INS-PRM-370
 - unlocking OPR-GDE-1231
 - ZAPAT command OPR-GDE-71
 - ZAPGM command OPR-GDE-77
 - ZDPAT command OPR-GDE-346
 - ZDPGM command OPR-GDE-349
 - ZDPLT command OPR-GDE-352
 - ZRPGM command OPR-GDE-1231
 - ZVFAC LOCATE command OPR-GDE-1426
- prolog for assembler programs APP-GDE-220
- Prolog for ISO-C Functions Calling TPF Macro Services
GEN-MAC-401
- properties, TPFCS DBS-REF-138
- property service functions CON-STR-164
- property
 - deleting CLS-UGR-1034, CLS-UGR-1038
 - names, returning CLS-UGR-1043
- protect database from erroneous addresses
ZRECP PROTECT command OPR-GDE-1188

- protect key AR-USG-30
- protect key change for globals GEN-MAC-262
- protect low core addresses SYS-MAC-335
- protected data records APP-GDE-240
- protected storage
 - E-type programs MIG-GD1-220
 - for E-type programs MIG-GD1-220
- protection key APP-GDE-246, CLS-UGR-296, CLS-UGR-297
- protection status, dirty-reader CLS-UGR-1055, CLS-UGR-1103
- protection, dirty-reader APP-GDE-116
- protocol data units (PDU)
 - format table CLAWGR-88, CLAWGR-91
 - structure and fields, SNMP CLAWGR-87
 - trap format table CLAWGR-88
 - variable binding table CLAWGR-89
- protocol
 - Transmission Control Protocol (TCP) APP-GDE-178
 - User Datagram Protocol (UDP) APP-GDE-178
- protocols, SNA SNA-PRM-26
- PRSHR parameter
 - RSC statement ACF-GDE-44
- PRTCT keyword of VTAM APPL statement AR-USG-18
- PSDN (Packet Switched Data Network) SNA-PRM-29
- pseudo line number
 - user-assigned SNA-PRM-49
- pseudo lines
 - display lines MIG-GD1-72
 - start lines MIG-GD1-74
 - stop lines MIG-GD1-74
- pseudo-address
 - in NEF SNA-PRM-48
- PSMS Utility Interface macro GEN-MAC-127
- PSV (process selection vector) SNA-PRM-253
- PSV (Process Selection Vector) SNA-PRM-22, SNA-PRM-29, SNA-PRM-30
- PSV parameter
 - RSC statement ACF-GDE-43
- PSV
 - interface SNA-PRM-255
 - output message queueing SNA-PRM-259
 - processing
 - input message SNA-PRM-253
 - NPSI/FTP command type SNA-PRM-51
 - NPSI/GATE commands SNA-PRM-329
 - output message SNA-PRM-254
 - routines SNA-PRM-260
 - routines
 - defining SNA-PRM-259
 - names SNA-PRM-259
 - NPSI/FTP command type SNA-PRM-51
- PSW access SYS-MAC-61
- PSW storage area SYS-GEN-34
- PTV control records
 - input for running PTV
 - dump options (DUMP) PDV-PRM-9
 - overview PDV-PRM-7
 - terminal simulation options PDV-PRM-8
 - test unit identification record (RUNID) PDV-PRM-7
- PTV modes
 - live PDV-PRM-4
 - overview PDV-PRM-4
 - phase 3 (package test) PDV-PRM-4, PDV-PRM-5, PDV-PRM-11
 - system test vehicle (STV) PDV-PRM-4, PDV-PRM-6, PDV-PRM-11
- PTV options APP-GDE-285
- PTV Phase I macro group changes MIG-GD1-234
- PTV
 - description of PDV-PRM-1, PDV-PRM-3
 - overview PDV-PRM-16
 - required input sequence
 - phase 3 (package test) PDV-PRM-11
 - system test vehicle (STV) PDV-PRM-11
 - running
 - overview of input PDV-PRM-5
- PTVA PDV-PRM-14
- PU 2.1 channel adapter
 - mounting OPR-GDE-971
 - ZNETW MOUNT command OPR-GDE-971
- PU 2.1 support
 - active links
 - displaying OPR-GDE-921, OPR-GDE-985
 - control point (CP)
 - activating OPR-GDE-964
 - active links OPR-GDE-921
 - deactivating OPR-GDE-969
 - name OPR-GDE-946
 - links
 - activating OPR-GDE-964
 - deactivating OPR-GDE-969
 - network identifier
 - displaying OPR-GDE-977
 - network topology
 - displaying OPR-GDE-921
 - ZNAPN command OPR-GDE-921
 - ZNDLU command OPR-GDE-946
 - ZNETW ACT command OPR-GDE-964
 - ZNETW INACT command OPR-GDE-969
 - ZNKEY command OPR-GDE-977
 - ZNMON command OPR-GDE-985
- PU 2.1
 - 37x5 considerations SNA-PRM-240
 - APPN mode SNA-PRM-4
 - LEN mode SNA-PRM-4
- PU 5 support
 - CDRM statement ACF-GDE-38
 - EXEC PARM field
 - considerations ACF-GDE-30
 - SUBAREA parameter ACF-GDE-30
 - NCP statement ACF-GDE-47
 - network identifier
 - displaying OPR-GDE-979
 - subarea report ACF-GDE-32
 - ZNKEY command OPR-GDE-979
 - ZNMON command OPR-GDE-985
- PU_2.1 SNA-PRM-237
- PU_2.1 Environment SNA-PRM-237
- PU_2.1
 - peripheral node SNA-PRM-239

PU_2.1 (continued)

Route Selection SNA-PRM-239
PU2.1 support SYS-GEN-8
PU5 support SYS-GEN-8
Purge Data from Queue macro SYS-MAC-325
purge items from PDU exclusion table
ZRPDU PURGE command OPR-GDE-1229
purge tape operations SYS-MAC-495
pushbutton application
summary report SPM-PRM-14
pushing characters back to input stream CLS-UGR-664
PUT 10
16-way tightly coupled multiprocessor MIG-GD2-574
APAR summary MIG-GD2-1269
C++ class library support MIG-GD2-587
Mapping of Airline Traffic over Internet Protocol
(MATIP) MIG-GD2-554
migration considerations MIG-GD2-553
open systems infrastructure MIG-GD2-595
PUT summary MIG-GD2-1269
remote procedure call MIG-GD2-667
TPF collection support enhancements MIG-GD2-566
TPF MQSeries local queue manager support
enhancements MIG-GD2-614
VSAM database MIG-GD2-606

PUT 11

coupling facility (CF) record lock support
MIG-GD2-646
Mapping of Airline Traffic over Internet Protocol
(MATIP) enhancements MIG-GD2-679
migration considerations MIG-GD2-625
PUT summary MIG-GD2-1269
tape record migration MIG-GD2-690
TCP/IP native stack support MIG-GD2-626
TPF Support for VisualAge Client MIG-GD2-700

PUT 12

File Transfer Protocol (FTP) server support
MIG-GD2-710
migration considerations MIG-GD2-709
PUT summary MIG-GD2-1269
TCP/IP PUT 12 enhancements MIG-GD2-734
TCP/IP support for TPFAR MIG-GD2-725
TPFCS recoup index command support
MIG-GD2-717
turbo enhancements for TPF support of MQSeries
local queue manager MIG-GD2-744

PUT 13

Domain Name System (DNS) support MIG-GD2-766
enhancements to TPF support for VisualAge client
MIG-GD2-777
FIFO special file support MIG-GD2-787
file system tools MIG-GD2-805
integrated online pool maintenance and recoup
support MIG-GD2-831
loaders enhancement for the TPF Assembler
Debugger for VisualAge Client MIG-GD2-881
logical record cache and coupling facility (CF) cache
support MIG-GD2-894
migration considerations MIG-GD2-765
movable virtual IP address (VIPA) support
MIG-GD2-907

PUT 13 (continued)

OSA-Express support MIG-GD2-907
PROJECT MIG-GD2-818
PUT summary MIG-GD2-1269
TPF DECB support MIG-GD2-923
TPF Internet mail server support MIG-GD2-973
TPF MQSeries enhancements MIG-GD2-937

PUT 14

32-way loosely coupled pool support MIG-GD2-1006
migration considerations MIG-GD2-949
PUT summary MIG-GD2-1269
recoup follow-on support MIG-GD2-950
TCP/IP enhancements for PUT 14 MIG-GD2-960
unlimited pool segment support MIG-GD2-988
XML parser MIG-GD2-1000

PUT 15

32-way loosely coupled processors MIG-GD2-1168
8-byte file address support MIG-GD2-1111
enhancements to TPF MQSeries local queue
manager support MIG-GD2-1034
expression enhancements for the TPF debuggers
MIG-GD2-1042
migration considerations MIG-GD2-1033
PUT summary MIG-GD2-1269
Secure Sockets Layer (SSL) support MIG-GD2-1061
shared SSL session support MIG-GD2-1069
Simple Network Management Protocol (SNMP) agent
support MIG-GD2-1083
TCP/IP enhancements for PUT 15 MIG-GD2-1094
TPF Internet mail server enhancements for PUT 15
MIG-GD2-1104

PUT 16

Fast TCP retransmit support MIG-GD2-1216
migration considerations MIG-GD2-1215
PUT summary MIG-GD2-1249
SNMP MIB display support MIG-GD2-1216
TCP/IP enhancements for PUT 16 MIG-GD2-1216
TCP/IP network services database support
MIG-GD2-1216
TCP/IP packet filtering firewall support
MIG-GD2-1216
TPF MQSeries clear queue support and display
enhancements MIG-GD2-1230
TPF MQSeries server support MIG-GD2-1235
XML4C parser 3.5.1 MIG-GD2-1244

PUT 2

APAR summary MIG-GD2-1269
critical APARs MIG-GD2-112
incorrect APARs shipped on previous PUTs
MIG-GD2-113
install MIG-GD2-114
ISO-C support MIG-GD2-54
migrate MIG-GD2-114
migration considerations MIG-GD2-53,
MIG-GD2-112
PUT summary MIG-GD2-1269
PXP MIG-GD2-89
shared PR/SM MIG-GD2-106

PUT 3

APAR summary MIG-GD2-1269
C function trace MIG-GD2-118

PUT 3 (continued)
critical APARs MIG-GD2-167
incorrect APARs shipped on previous PUTs
MIG-GD2-167
ISO-C E-type loader support MIG-GD2-127
migration considerations MIG-GD2-117,
MIG-GD2-167
migration of TPF system code to ISO-C support
MIG-GD2-138
PUT summary MIG-GD2-1269
TPF Advanced Peer-to-Peer Networking (TPF/APPN)
MIG-GD2-148

PUT 4
APAR summary MIG-GD2-1269
critical APARs MIG-GD2-242
dynamic LU support MIG-GD2-180
incorrect APARs shipped on previous PUTs
MIG-GD2-243
incorrect APARs shipped on PUT 4 MIG-GD2-243
ISO-C file resident support MIG-GD2-170
migration considerations MIG-GD2-169,
MIG-GD2-242
multiple I-stream DASD I/O support MIG-GD2-213
PUT summary MIG-GD2-1269
TCP/IP support MIG-GD2-221

PUT 5
APAR summary MIG-GD2-1269
critical APARs MIG-GD2-279
incorrect APARs shipped on previous PUTs
MIG-GD2-280
incorrect APARs shipped on PUT 5 MIG-GD2-281
Message Queue Interface (MQI) client MIG-GD2-268
migration considerations MIG-GD2-245,
MIG-GD2-279
PUT summary MIG-GD2-1269
resource control support MIG-GD2-246
TCP/IP full-duplex socket support MIG-GD2-259
Year 2000 APARs MIG-GD2-279

PUT 6
3590 support MIG-GD2-284
APAR PJ23493 MIG-GD2-308
APAR summary MIG-GD2-1269
C main() support MIG-GD2-316
critical APARs MIG-GD2-343
incorrect APARs shipped on previous PUTs
MIG-GD2-344
incorrect APARs shipped on PUT 6 MIG-GD2-346
incorrect APARs shipped on PUT 6 and previous
PUTs MIG-GD2-345
migration considerations MIG-GD2-283,
MIG-GD2-343
PUT summary MIG-GD2-1269
TCP/IP resource management MIG-GD2-333
threads precursor MIG-GD2-324
TPF Application Requester Enhancements
MIG-GD2-294

PUT 7
APAR summary MIG-GD2-1269
C++ support MIG-GD2-358
file system support MIG-GD2-370
link map support for C load modules MIG-GD2-348

PUT 7 (continued)
migration considerations MIG-GD2-347
PUT summary MIG-GD2-1269
TPF collection support MIG-GD2-403
TPF transaction services MIG-GD2-423
VFA synchronization MIG-GD2-386

PUT 8
APAR summary MIG-GD2-1269
migration considerations MIG-GD2-439
PUT summary MIG-GD2-1269
Transmission Control Protocol/Internet Protocol
(TCP/IP) application tools MIG-GD2-440

PUT 9
APAR summary MIG-GD2-1269
coupling facility (CF) support MIG-GD2-450
high-performance routing (HPR) support
MIG-GD2-464
migration considerations MIG-GD2-449
PUT summary MIG-GD2-1269
TPF C Debugger for VisualAge Client MIG-GD2-537
TPF collection support enhancements MIG-GD2-526
TPF Internet server support MIG-GD2-504
TPF MQSeries local queue manager support
MIG-GD2-483

put a message on an open queue CLS-UGR-359

put a single message on a queue CLS-UGR-365

put string to terminal CLS-UGR-402

Q

QASNC macro SYS-MAC-392

QCE (Queue Control Element) SNA-PRM-269

QGDSQ SYS-MAC-394

QN parameter

ALS statement ACF-GDE-47

CTC statement ACF-GDE-50

QN universal character set

CUAH program OPR-GDE-103

defining OPR-GDE-103

loading OPR-GDE-102

ZAURS LUCS command OPR-GDE-102

qualify ZBROW

data store OPR-GDE-154

ZBROW QUALIFY command OPR-GDE-154

quality of service (QoS) CLAWGR-47, CLAWGR-111,
MIG-GD2-1216

Query Asynchronous I/O Event Facility macro
SYS-MAC-392

query child status CLS-UGR-694, CLS-UGR-695

Query General Data Set (GDS) Input/Output (I/O)

Queue SYS-MAC-394

query general data set device I/O queue macro
SYS-MAC-394

Query Number of Storage Blocks Available macro
SYS-MAC-360

query the status of CLAW adapter CLAWGR-400

query the status of CLAW logical links CLAWGR-400
query

event status CLS-UGR-109

number of storage blocks available CLS-UGR-379

RPC server restarted CLS-UGR-607

Queue Control Element (QCE) SNA-PRM-269

- queue data purge SYS-MAC-325
- queue manager alias
 - defining OPR-GDE-875
 - ZMQSC DEF QR command OPR-GDE-875
- queue manager
 - changing OPR-GDE-843, OPR-GDE-846
 - defining OPR-GDE-864, OPR-GDE-866
 - starting OPR-GDE-905
 - stopping OPR-GDE-907
 - ZMQSC ALT MQP command OPR-GDE-843
 - ZMQSC ALT PROCESS command OPR-GDE-846
 - ZMQSC DEF MQP command OPR-GDE-864
 - ZMQSC DEF PROCESS command OPR-GDE-866
 - ZMQSC START command OPR-GDE-905
 - ZMQSC STOP command OPR-GDE-907
- Queue Manager
 - DEQUEUE SNA-PRM-269, SNA-PRM-272
 - detailed return codes SNA-PRM-273
 - ENQUEUE SNA-PRM-269, SNA-PRM-271
 - general return codes SNA-PRM-273
 - GET SNA-PRM-271
 - PURGE SNA-PRM-269, SNA-PRM-272
 - WASH SNA-PRM-269, SNA-PRM-272
- queue manipulation for SLC SYS-MAC-443
- queue, file SPM-PRM-83
- queue
 - alias
 - changing definition for OPR-GDE-848
 - defining OPR-GDE-868
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - ZMQSC ALT QA command OPR-GDE-848
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - ZMQSC QA command OPR-GDE-868
 - local
 - changing definition for OPR-GDE-850
 - defining OPR-GDE-870
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - ZMQSC ALT QL command OPR-GDE-850
 - ZMQSC DEF QL command OPR-GDE-870
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - memory
 - moving messages OPR-GDE-900
 - migrating OPR-GDE-898
 - remote
 - changing definition for OPR-GDE-854
 - defining OPR-GDE-875
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - ZMQSC ALT QR command OPR-GDE-854
 - ZMQSC DEF QR command OPR-GDE-875
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - transmission
 - changing OPR-GDE-854
 - defining OPR-GDE-870, OPR-GDE-875
 - moving messages OPR-GDE-909
 - ZMQSC ALT QR command OPR-GDE-854

- queue (*continued*)
 - transmission (*continued*)
 - ZMQSC DEF QL command OPR-GDE-870
 - ZMQSC DEF QR command OPR-GDE-875
 - ZMQSC SWQ command OPR-GDE-909
 - queued direct I/O (QDIO) CLAWGR-40, CLAWGR-43
 - queued terminal messages APP-GDE-48
 - queueing time CON-STR-112, SYS-GEN-57
 - quick enter directory for TARGET(TPF)
 - description of APP-GDE-69
 - quiesce tape operations SYS-MAC-495
 - quota
 - displaying for a mailbox OPR-GDE-730, OPR-GDE-733
 - setting for a mailbox OPR-GDE-745
 - ZMAIL LISTQUOTA command OPR-GDE-730
 - ZMAIL LISTQUOTAROOT command OPR-GDE-733
 - ZMAIL SETQUOTA command OPR-GDE-745
 - quoting
 - ZFILE cat command OPR-GDE-438
 - ZFILE cd command OPR-GDE-441
 - ZFILE chmod command OPR-GDE-444
 - ZFILE chown command OPR-GDE-448
 - ZFILE command OPR-GDE-434
 - ZFILE cp command OPR-GDE-451
 - ZFILE dd command OPR-GDE-454
 - ZFILE echo command OPR-GDE-457
 - ZFILE find command OPR-GDE-463
 - ZFILE grep command OPR-GDE-468
 - ZFILE head command OPR-GDE-473
 - ZFILE hex command OPR-GDE-476
 - ZFILE kill command OPR-GDE-485
 - ZFILE ln command OPR-GDE-488
 - ZFILE ls command OPR-GDE-491
 - ZFILE mkdir command OPR-GDE-497
 - ZFILE mkfifo command OPR-GDE-500
 - ZFILE mknod command OPR-GDE-503
 - ZFILE mv command OPR-GDE-506
 - ZFILE ps command OPR-GDE-509
 - ZFILE pwd command OPR-GDE-516
 - ZFILE rm command OPR-GDE-518
 - ZFILE rmdir command OPR-GDE-521
 - ZFILE sed command OPR-GDE-524
 - ZFILE tail command OPR-GDE-535
 - ZFILE touch command OPR-GDE-540
 - ZFILE xargs command OPR-GDE-548

R

- RACF checking AR-USG-22
- railroad tracks ACF-GDE-xii, GEN-MAC-xvii, OPR-GDE-xxv, SNA-PRM-xx, SPM-xii, SYS-GEN-xvi, SYS-MAC-xv
- RAISA macro GEN-MAC-311
- raise CLS-UGR-622
- raise condition CLS-UGR-406
- raise outstanding signals CLS-UGR-622
- RALOC macro GEN-MAC-314
- RAM macro SYS-GEN-286
- RAMEND macro SYS-GEN-289
- RAMFIL macro SYS-GEN-290

RAMFIL macro
 PVR record MIG-GD2-83
 RAMFIL statements SYS-GEN-65
 RAMFIL USER parameter examples SYS-GEN-67
 random file access
 device queues mean SPM-PRM-84
 summary SPM-PRM-44
 total accesses per second SPM-PRM-84
 total system SPM-PRM-84
 random pool file area APP-GDE-254
 random
 access CLS-UGR-226, CLS-UGR-234
 range of record IDs
 database record IDs PSM-GDE-13
 tape record IDs PSM-GDE-13
 rapid transport protocol (RTP) connections
 active LU-LU sessions, number of
 displaying OPR-GDE-1023, OPR-GDE-1035
 active, number of
 displaying OPR-GDE-985, OPR-GDE-1035
 active
 displaying OPR-GDE-1023
 alive timer SNA-PRM-145
 alive timer
 changing OPR-GDE-974
 displaying OPR-GDE-974
 ARB pacing
 values for calculating OPR-GDE-975,
 OPR-GDE-976, OPR-GDE-977
 deactivating OPR-GDE-1031
 deactivating
 automatically SNA-PRM-134
 ZNRTP INACT command SNA-PRM-134
 description of SNA-PRM-131
 displaying
 ZNDLU command SNA-PRM-134
 ZNMON command SNA-PRM-134
 ZNRTP DISPLAY command SNA-PRM-134
 ZNRTP ROUTE command SNA-PRM-134
 ZNRTP SUMMARY command SNA-PRM-134
 failures
 alive timer SNA-PRM-145
 detecting SNA-PRM-144
 heartbeat message SNA-PRM-145
 short request timer SNA-PRM-144
 heartbeat message SNA-PRM-145
 hops
 displaying OPR-GDE-1033
 information about
 displaying OPR-GDE-1023, OPR-GDE-1035
 IPL considerations SNA-PRM-163
 LU
 displaying OPR-GDE-946
 maximum number per TPF processor
 displaying OPR-GDE-978
 nodes
 displaying OPR-GDE-1033
 path switch timer
 changing OPR-GDE-974
 displaying OPR-GDE-974
 rapid transport protocol (RTP) connections *(continued)*
 path switch
 description of SNA-PRM-141
 path switch timer SNA-PRM-143
 process of SNA-PRM-141
 starting OPR-GDE-1037, SNA-PRM-141
 remote RTP endpoint
 displaying OPR-GDE-1033
 resynchronization process
 disabling OPR-GDE-980
 enabling OPR-GDE-980
 resynchronizing SNA-PRM-163
 route of
 displaying OPR-GDE-1033
 switching OPR-GDE-1037
 ROUTE_SETUP process SNA-PRM-136
 RTPCB entries
 initializing OPR-GDE-1032
 Select an RTP Connection user exit (URTP)
 SNA-PRM-136
 short request timer SNA-PRM-144
 smoothed round trip time (SRTT) SNA-PRM-144
 SRTT SNA-PRM-144
 starting SNA-PRM-134, SNA-PRM-136
 states of SNA-PRM-131
 statistical information
 displaying OPR-GDE-985, OPR-GDE-1023,
 OPR-GDE-1035
 status of
 displaying OPR-GDE-1023, OPR-GDE-1035
 TCIDs SNA-PRM-134
 tracing OPR-GDE-1052
 traffic
 regulating OPR-GDE-975, OPR-GDE-976,
 OPR-GDE-977
 URTP user exit SNA-PRM-136
 ZNDLU command OPR-GDE-946
 ZNKEY command OPR-GDE-974, OPR-GDE-975,
 OPR-GDE-976, OPR-GDE-977, OPR-GDE-978,
 OPR-GDE-980
 ZNMON command OPR-GDE-985
 ZNRTP DISPLAY command OPR-GDE-1023
 ZNRTP INACT command OPR-GDE-1031
 ZNRTP INITIALIZE command OPR-GDE-1032
 ZNRTP ROUTE command OPR-GDE-1033
 ZNRTP SUMMARY command OPR-GDE-1035
 ZNRTP SWITCH command OPR-GDE-1037
 ZNRTP command OPR-GDE-1052
 rapid transport protocol (RTP) nodes SNA-PRM-127,
 SNA-PRM-143
 rapid transport protocol connections INS-PRM-189
 rapid transport protocol control block (RTPCB) table
 entries
 displaying OPR-GDE-1023
 initializing OPR-GDE-1032
 size of
 displaying OPR-GDE-978
 ZNKEY command OPR-GDE-978
 ZNRTP DISPLAY command OPR-GDE-1023
 ZNRTP INITIALIZE command OPR-GDE-1032

rapid transport protocol control block table
 #RT1RI records ACF-GDE-25, SNA-PRM-155
 #RT2RI records ACF-GDE-25, SNA-PRM-155
 defining ACF-GDE-12
 defining
 SNAKEY macro SNA-PRM-154
 description of SNA-PRM-152
 displaying
 ZDDCA command SNA-PRM-155
 ZNRTP DISPLAY command SNA-PRM-155
 initializing
 ZNRTP INITIALIZE command SNA-PRM-155
 SNA control blocks
 relationship with SNA-PRM-157
 ratio dispensing CON-STR-128, GEN-MAC-7
 ratio dispensing schedule
 specifying OPR-GDE-602
 ZGFSP RTO command OPR-GDE-602
 ratio factor CON-STR-128
 raw sockets
 IP protocol CLAWGR-119
 RC0PL data macro SNA-PRM-22
 RC0PL macro APP-GDE-41
 RCATC macro GEN-MAC-316
 RCC GEN-MAC-318
 RCC check failures
 File macro GEN-MAC-22
 Find macro GEN-MAC-22
 RCFBC macro SYS-MAC-396
 RCHKA macro GEN-MAC-318
 RCLAC macro SYS-MAC-397
 RCP tapes OPR-GDE-19
 RCPL data
 locating GEN-MAC-353
 RCRFC macro GEN-MAC-319
 RCRTC macro SYS-MAC-399
 RCS device notification SYS-MAC-392
 RCS status table access SYS-MAC-400
 RCS thresholding processing INS-PRM-69
 RCSSC macro SYS-MAC-400
 RCUNC macro GEN-MAC-321
 Rdb (relational database name)
 relationship to bootstrap data set (BSDS)
 AR-USG-15
 RDB (relational database) AR-USG-1
 RDB (relational database)
 column AR-USG-27
 definition of AR-USG-111
 example of AR-USG-27
 row AR-USG-27
 table AR-USG-27
 Rdb parameter of ZSQLD AR-USG-16
 RDCDC macro GEN-MAC-323
 RDCTC macro SYS-MAC-403
 re-create a data store OPR-GDE-1100
 re-create a data store
 ZOODB RECREATE command OPR-GDE-1100
 re-creating
 data stores CLS-UGR-1330
 REACT (ZCNIS parameter) SYS-GEN-49
 read a cache entry CLS-UGR-413
 Read a Card macro GEN-MAC-323
 Read a General Tape Record macro GEN-MAC-484
 read a record from general tape CLS-UGR-538
 Read and Process Program Version Record macro
 SYS-MAC-411
 read application data from an SSL session
 SSL API function, SSL_read CLAWGR-319
 read buffers (4K) SNA-PRM-225
 read buffers (CTC) and SNAKEY AR-USG-98
 read data from an external device into a buffer,
 TPFxd_read CLS-UGR-1376
 read data on a socket
 socket API function, read CLAWGR-193
 read general tape record CLS-UGR-641
 read into a core block from an external device,
 TPFxd_readBlock CLS-UGR-1378
 read operations with fgetc CLS-UGR-146
 read-flags (SMSCRF) field SNA-PRM-26
 read-type (SMSCRT) field SNA-PRM-26
 read
 character from stdin CLS-UGR-146, CLS-UGR-246
 character from stream CLS-UGR-246
 data items from stream CLS-UGR-213
 directory, readdir library function CLS-UGR-415
 formatted CLS-UGR-217
 from file, read library function CLS-UGR-410
 line from stream CLS-UGR-150
 read a string, fgets() library function CLS-UGR-150
 scanning CLS-UGR-217
 value of symbolic link, readlink library function
 CLS-UGR-417
 reading
 a character CLS-UGR-246
 complete or partial BLOB CLS-UGR-915,
 CLS-UGR-920
 ready list APP-GDE-228, CON-STR-61
 ready list
 create new ECB and transfer control macro (CXFRC)
 CON-STR-83
 real address CON-STR-26
 real address
 application program considerations MIG-GD1-306
 convert from virtual addresses for use by CCWs
 MIG-GD1-230
 real memory
 description MIG-GD1-209
 global residency MIG-GD1-209
 real OSA IP addresses CLAWGR-63
 real storage
 reserve for application program use MIG-GD1-209
 real time log tape (RTL) APP-GDE-288
 real time tape (RTA) APP-GDE-288
 real-time disk formatter DBS-REF-117
 real-time disk formatter
 method of operation DBS-REF-117
 real-time log tape PDV-PRM-12
 real-time log tape
 formatting and printing data on OPR-GDE-1437
 real-time manual dump
 starting OPR-GDE-393
 ZDUMP command OPR-GDE-393

- real-time operations APP-GDE-267
- real-time tables SYS-GEN-179
- real-time tape CON-STR-90
- real-time tape record write GEN-MAC-409, GEN-MAC-411
- real-time tape
 - synchronize CLS-UGR-645
 - tape queue threshold value
 - PIU trace tape OPR-GDE-979
 - write real-time tape record CLS-UGR-558
 - write real-time tape record and release storage block CLS-UGR-557
 - ZNKEY command OPR-GDE-979
- real-time trace (RTT) APP-GDE-291, SNA-PRM-275
- real-time trace (RTT) facility
 - changes MIG-GD1-229, MIG-GD1-234, MIG-GD1-279
 - debug MIG-GD1-293
 - description MIG-GD1-234, MIG-GD1-277
 - overview MIG-GD1-10, MIG-GD1-293, MIG-GD1-294
 - problem determination MIG-GD1-293
 - RTT option tables MIG-GD1-234
 - start MIG-GD1-83
 - trace buffer MIG-GD1-234
- Real-Time Trace (RTT)
 - activation PDV-PRM-48
 - description of PDV-PRM-1, PDV-PRM-47
 - example of RTT output PDV-PRM-48
 - input PDV-PRM-48
 - minimum trace output PDV-PRM-48
 - output PDV-PRM-48
 - output on log tape PDV-PRM-61
 - processing overview PDV-PRM-51
- real-time trace
 - additional trace output OPR-GDE-1380
 - ZCNTM command OPR-GDE-224
 - ZSTOP command OPR-GDE-1310
 - ZTRAC command OPR-GDE-1376
- real-time
 - program management
 - changes MIG-GD1-305
 - overview MIG-GD1-17
 - tape MIG-GD1-279
- REALNAME parameter
 - CDRM statement ACF-GDE-39
- realtime tape operations GEN-MAC-16
- realtime
 - disk formatter (FMTR) SYS-GEN-161
 - substitution SYS-GEN-6
- reassembly, HPR
 - description of SNA-PRM-174
- REATXT tool (rearrange CSECTs)
 - rearrange CSECTs APP-GDE-336
 - rearrange TXTs APP-GDE-336
- rebuild rollin directories
 - ZRECP REBUILD command OPR-GDE-1190
- receive a connect request from CLAW workstation CLAWGR-386
- receive data on a connected socket
 - socket API function, recv CLAWGR-196
 - socket API function, recvfrom CLAWGR-199
- receive messages on a socket
 - socket API function, recvmsg CLAWGR-202
- RECEIVE verb
 - timing out OPR-GDE-981
 - ZNKEY command OPR-GDE-981
- RECEIVE_AND_WAIT SNA-PRM-76
- receive-only computer room agent set (RO CRAS)
 - console MIG-GD1-251
 - summary of logical unit (LU) names MIG-GD1-251
- RECIT parameter
 - SNAKEY macro ACF-GDE-17
- reclaim the PID CLS-UGR-1322
- reconcile file pool counts switch SYS-MAC-373
- reconstructing a collection CLS-UGR-1323
- reconstruction support CON-STR-166, DBS-REF-145
- reconstruction, manual DBS-REF-157
- RECOP parameter
 - SNAKEY macro ACF-GDE-18
- record access mode, cache DBS-REF-41, DBS-REF-44
- record accessing CON-STR-106
- record address conversion services CON-STR-105
- record allocation
 - database ordinal number (DBON) CON-STR-113
 - example of CON-STR-114
 - horizontal allocation CON-STR-9, CON-STR-97
 - vertical allocation CON-STR-9, CON-STR-97
- Record Anomaly Log SPM-PRM-61
- record attributes
 - exception recording
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - locking status
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - logging status
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - record caching candidacy
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - record restore status
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - user exit status
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - VFA candidacy
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
- Record Cache RPQ
 - IPL procedure OPR-GDE-5
- record cache subsystem (RCS) state change pending monitor (SCPM)
 - time interval
 - displaying OPR-GDE-1287
 - setting OPR-GDE-1279

- record cache subsystem (RCS) state change pending monitor (SCPM) *(continued)*
 - ZSONS ALTER SCP command OPR-GDE-1279
 - ZSONS DISPLAY SCP command OPR-GDE-1287
- record cache subsystem (RCS)
 - map RSC SSID/device addresses MIG-GD1-65
 - processing differences DBS-REF-49
- record cache subsystem device notification
 - SYS-MAC-392
- record cache subsystem status table SYS-MAC-400
- record caching attributes, cache DBS-REF-48
- record caching candidacy
 - record attribute
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
 - RIAT pool overrides
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - ZRTDM DISPLAY command OPR-GDE-1239
 - ZRTDM MODIFY command OPR-GDE-1242
- record chain release GEN-MAC-336
- record code check GEN-MAC-8
- record code check in record header APP-GDE-267
- Record Code Check macro GEN-MAC-318
- record concatenation INS-PRM-305
- record duplication CON-STR-102, CON-STR-121
- record duplication
 - determining GEN-MAC-366
- record file address, T02_getRecordAttributes
 - CLS-UGR-1305
- record file and unhold GEN-MAC-205
- record file with no release macro GEN-MAC-200
- record filing GEN-MAC-195
- record find GEN-MAC-214
- record find and hold GEN-MAC-210
- record find and wait GEN-MAC-216
- record groups
 - delay filing DBS-REF-35
 - immediate filing DBS-REF-35
 - synchronized delay filing DBS-REF-35
 - synchronized immediate filing DBS-REF-36
- record header APP-GDE-264
- record headers APP-GDE-264
- record hold facility APP-GDE-8, APP-GDE-21, APP-GDE-234, APP-GDE-259
- record hold feature GEN-MAC-10
- record hold table CON-STR-44, SYS-GEN-41
- record hold table wait queue SYS-MAC-218
- record hold table
 - lock maintenance CON-STR-104
 - overview MIG-GD1-17
 - relation to XLF lock table CON-STR-144
 - use of CON-STR-108
- record holding CON-STR-108, CON-STR-144
- record holding
 - loosely-coupled complex, in a CON-STR-109
- record ID APP-GDE-266, CON-STR-104, CON-STR-106
- record ID attribute table INS-PRM-373
- record ID attribute table (RIAT) CON-STR-104, CON-STR-131, SYS-GEN-39
- record ID attribute table (RIAT)
 - changes MIG-GD1-12, MIG-GD1-218
 - DASD record caching candidacy characteristics CON-STR-143
 - defined on RIAT macro MIG-GD1-284
 - description SYS-GEN-184
 - entries
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - entry
 - display MIG-GD1-81
 - modify MIG-GD1-81
 - exception recording characteristics CON-STR-104
 - lock maintenance characteristics CON-STR-104
 - logging characteristics CON-STR-104
 - module record caching candidacy characteristics CON-STR-104
 - overview MIG-GD1-17
 - record type
 - #OLDx MIG-GD1-207
 - #PVRx MIG-GD1-208
 - RIAT control values
 - resetting OPR-GDE-1248
 - RIAT pool overrides
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - user exit characteristics CON-STR-104
 - VFA candidacy characteristics CON-STR-104, CON-STR-138
 - VFA synchronization MIG-GD2-401
 - ZRTDM DISPLAY command OPR-GDE-1239, OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1242, OPR-GDE-1244
 - ZRTDM RESET command OPR-GDE-1248
- Record ID attribute table access SYS-MAC-407
- record ID file accesses report SPM-PRM-46
- record ID 'X'FF0F' AR-USG-14
- record ID
 - parameter in file address reference word (FARW) CON-STR-104
 - record ID attribute table (RIAT) CON-STR-104
 - VFA
 - flushing OPR-GDE-1423
 - purging OPR-GDE-1429
 - removing from VFA OPR-GDE-1423, OPR-GDE-1429
 - ZVFAC FLUSH command OPR-GDE-1423
 - ZVFAC PURGE command OPR-GDE-1429
- record identification in record header APP-GDE-266
- record IDs PSM-GDE-13
- record IDs, assigning to a collection DBS-REF-137
- record logging DBS-REF-62
- record logging
 - restoring records OPR-GDE-574
 - starting OPR-GDE-418
 - stopping OPR-GDE-418
 - ZFCAP LOG command OPR-GDE-418
 - ZFRST LOG command OPR-GDE-574

- record longevity CON-STR-103
- record ordinal number APP-GDE-251
- record processing, general data sets DBS-REF-14
- record reference CON-STR-105
- record reference
 - fixed record CON-STR-106
 - pool record CON-STR-106, CON-STR-123
- record restore status
 - record attribute
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
- record scope
 - determining GEN-MAC-366
- record sharing table (RST) CON-STR-139
- record size CON-STR-102
- record size support SYS-GEN-57
- record size support
 - record types SYS-GEN-58
- record size
 - determining GEN-MAC-366
- record specification SYS-GEN-290
- record trailer DBS-REF-169
- record type CON-STR-9, CON-STR-89
- record type characteristic GEN-MAC-366
- Record Type Conversion Utility macro GEN-MAC-340
- record type names SYS-MAC-232
- record type
 - converting OPR-GDE-1237
 - displaying file address for OPR-GDE-241
 - fixed record CON-STR-99, CON-STR-106
 - pool record CON-STR-99
 - usage CON-STR-9
 - ZDADD command OPR-GDE-241
 - ZRTCUC command OPR-GDE-1237
- record types, extended structures DBS-REF-181
- record types, system utilized SYS-GEN-103
- record unhold GEN-MAC-510
- record uniqueness SYS-GEN-67
- record, control DBS-REF-170
- record, exception DBS-REF-91
- record, keypoint DBS-REF-72
- record
 - 4 KB MIG-GD1-241
 - AMSG PDV-PRM-23
 - creating or altering PDV-PRM-23
 - DATA PDV-PRM-23, PDV-PRM-24
 - data record MIG-GD1-306
 - disk allocation PDV-PRM-21
 - disk type PDV-PRM-21
 - display MIG-GD1-271
 - dump option PDV-PRM-22
 - fixed file MIG-GD1-246
 - flush from virtual file access (VFA) MIG-GD1-249
 - GEND PDV-PRM-24, PDV-PRM-25
 - group PDV-PRM-31
 - GSTAR PDV-PRM-24
 - I-stream unique record MIG-GD1-247
 - modify MIG-GD1-271
 - MSG PDV-PRM-23, PDV-PRM-24

- record (*continued*)
 - overview MIG-GD1-17
 - pool record MIG-GD1-246
 - processor unique record MIG-GD1-247
 - program records
 - changes MIG-GD1-241
 - size MIG-GD1-241
 - purge from virtual file access (VFA) MIG-GD1-249
 - PVR record MIG-GD2-83
 - SDMF GROUP PDV-PRM-23
 - SIZ PDV-PRM-31
 - subsystem user (SSU) record MIG-GD1-247
 - type
 - define MIG-GD1-244
 - define for capture and restore MIG-GD1-206
 - for the FCTBG program MIG-GD1-208
- records, returned by T02_getNumberOfRecords
 - CLS-UGR-1295
- records
 - reading non-TPF SYS-MAC-249
 - writing non-TPF SYS-MAC-243
- RECOT parameter
 - SNAKEY macro ACF-GDE-18
- recoup DBS-REF-27, SYS-GEN-154
- Recoup Descriptor Record Access macro
 - SYS-MAC-264
- Recoup Descriptor Record Structure macro
 - SYS-MAC-306
- recoup descriptor writer (BKDR)
 - enhancements MIG-GD1-282
- Recoup Error Item Setup macro SYS-MAC-104
- recoup follow-on support
 - API changes MIG-GD2-958
 - architecture MIG-GD2-950
 - C/C++ language MIG-GD2-950
 - CINFC tags MIG-GD2-951
 - commands MIG-GD2-956
 - CONKC tags MIG-GD2-951
 - copy members MIG-GD2-951
 - database changes MIG-GD2-958
 - feature changes MIG-GD2-958
 - fixed file records MIG-GD2-951
 - functional changes MIG-GD2-956
 - functional overview MIG-GD2-950
 - host system changes MIG-GD2-958
 - installation validation MIG-GD2-958
 - interfaces MIG-GD2-950
 - loading process MIG-GD2-957
 - macros MIG-GD2-952
 - migration scenarios MIG-GD2-958
 - offline messages MIG-GD2-956
 - online messages MIG-GD2-956
 - online system load MIG-GD2-957
 - operating environment requirements MIG-GD2-950
 - operational changes MIG-GD2-956
 - overview MIG-GD2-16, MIG-GD2-950
 - performance changes MIG-GD2-957
 - planning information MIG-GD2-950
 - prerequisite APARs MIG-GD2-950
 - publication changes MIG-GD2-957
 - segments MIG-GD2-953

- recoup follow-on support *(continued)*
 - SIP changes MIG-GD2-957
 - storage changes MIG-GD2-957
 - storage considerations MIG-GD2-957
 - system equates MIG-GD2-955
 - system errors MIG-GD2-956
 - system generation changes MIG-GD2-957
 - tuning changes MIG-GD2-957
 - user exits MIG-GD2-955
- recoup GROUP macro
 - overview MIG-GD1-17
- recoup index information
 - managing OPR-GDE-158
 - ZBROW RECOUP command OPR-GDE-158
- recoup keypoint for chain-chasing SYS-MAC-266
- recoup Logging Item Setup macro SYS-MAC-108
- recoup pool function switch SYS-MAC-373
- Recoup Register and Work Area Save macro
 - SYS-MAC-115
- Recoup Register Restore macro SYS-MAC-113
- recoup stack area
 - controlling SYS-MAC-118
- Recoup Stack macro SYS-MAC-118
- recoup
 - BKD1 CLAWGR-258
 - IBM recoup active root table (IRART) DBS-REF-116
 - IBM recoup scheduling control table (IRSCT)
 - DBS-REF-116
 - other I/O DBS-REF-115
 - phase 1 functions DBS-REF-106
 - phase 1 procedures DBS-REF-110
 - phase 2 functions DBS-REF-107
 - phase 2 procedures DBS-REF-111
 - phase 3 DBS-REF-106, DBS-REF-108
 - phase 3 functions DBS-REF-107
 - phase 3 procedures DBS-REF-113
 - phase 4 functions DBS-REF-108
 - phase 4 procedures DBS-REF-114
 - phase 5 procedures DBS-REF-114
 - phase 5-7 functions DBS-REF-109
 - phase 6-7 procedures DBS-REF-115
 - phase pre-phase1 functions DBS-REF-104
 - phase pre-phase1 procedures DBS-REF-109
 - recoup data store DBS-REF-116
 - recoup keypoint record (BK0RP) DBS-REF-116
 - recovering lost pool addresses DBS-REF-104
 - TPF Internet mail server considerations
 - DBS-REF-105
 - TPFCS DBS-REF-149
 - updating descriptors for a mail database
 - CLAWGR-258
 - user exits DBS-REF-116
- Recover from Program Check macro SYS-MAC-66
- Recoverable and Non-recoverable Messages
 - SNA-PRM-247
- recovering long-term pool records CON-STR-147
- recovery action MSP-PRM-44
- recovery log DBS-REF-125
- recovery log
 - log takeover DBS-REF-128
 - loosely coupled considerations DBS-REF-127
- recovery log *(continued)*
 - reading from DBS-REF-127
 - restarting from DBS-REF-127
 - writing to DBS-REF-127
- recovery of message CON-STR-182
- recovery, cache DBS-REF-42, DBS-REF-46
- recovery
 - catastrophic INS-PRM-20
- RECVRY parameter
 - ANTNME statement ACF-GDE-37
 - RSC statement ACF-GDE-43
- recycling short-term pool CON-STR-128,
 - CON-STR-129
- recycling
 - RVT
 - entries OPR-GDE-962
 - termination list OPR-GDE-962
 - ZNDYN RECYCLE command OPR-GDE-962
- redirect
 - streams, using freopen CLS-UGR-215
- reduced core
 - running with OPR-GDE-557
 - ZFKPA command OPR-GDE-557
- reduction, data CON-STR-59
- redundant messages
 - deleting OPR-GDE-1140
 - ZPUMP command OPR-GDE-1140
- reentering a message SNA-PRM-247
- reentrancy CON-STR-41
- reentrancy in TPF APP-GDE-141
- reentrancy
 - considerations for application programs
 - MIG-GD1-313
 - Entry CON-STR-41
 - multiprocessing CON-STR-42
 - multiprogramming CON-STR-42
 - use of a stack CON-STR-81
- reentrant program CON-STR-39, CON-STR-42
- reentrant program
 - contrast with serially reusable program CON-STR-39
 - RENT compile-time option CON-STR-39
 - writable static CON-STR-39
- reentrant programs APP-GDE-4, GEN-MAC-5
- referencing data blocks, data event control blocks
 - (DECBs) APP-GDE-31
- reformat online modules MIG-GD1-203
- refresh SNMP configuration file into core storage
 - OPR-GDE-1263
- refresh SNMP configuration file with ZSNMP command
 - CLAWGR-98
- register 8 PSM-GDE-27
- register 8 (program pointer) APP-GDE-25
- register 9 PSM-GDE-27
- register 9 (ECB pointer) APP-GDE-25
- register and S/370 branch trace facility
 - debug MIG-GD1-293
 - overview MIG-GD1-294, MIG-GD1-299
 - problem determination MIG-GD1-293
- register conventions GEN-MAC-1
- register conventions, TPF APP-GDE-219
- register environment for C/C++ language PDV-PRM-76

register names, naming conventions PSM-GDE-22
 register save areas APP-GDE-38
 register the available ciphers and digest
 SSL API function, SSL_library_init CLAWGR-314
 register trace GIM-26
 register trace facility
 debug MIG-GD1-295
 overview MIG-GD1-295, MIG-GD1-299
 problem determination MIG-GD1-295
 register usage, assembler coding practices
 PSM-GDE-27
 registers AR-USG-30
 Registers Reserved for Control Program Use
 PSM-GDE-27
 registers reserved for the API PSM-GDE-27
 registers reserved for the application program interface
 PSM-GDE-27
 registers
 DCL macro SPM-95
 defining SPM-95
 Registration of LUs in APPN network SNA-PRM-211
 REHKA macro GEN-MAC-325
 rehook core block CLS-UGR-419
 Rehook Core Block macro GEN-MAC-325
 reinitializing and discarding elements in the collection
 CLS-UGR-1072
 relational database (RDB) AR-USG-1
 relational database (RDB)
 column AR-USG-27
 definition of AR-USG-111
 example of AR-USG-27
 row AR-USG-27
 table AR-USG-27
 relational database name (Rdb)
 relationship to bootstrap data set (BSDS)
 AR-USG-15
 relational databases
 hotcon table (HCT) entries
 maximum number OPR-GDE-978
 ZNKEY command OPR-GDE-978
 relative path name CON-STR-153
 relative record number APP-GDE-251
 relative record numbers, TPFCS DBS-REF-182
 RELCC macro GEN-MAC-327, MSP-PRM-22
 Release a Control Record macro SYS-MAC-70
 Release a Lock on a WGTA Entry macro
 SYS-MAC-418
 Release a Specified CLAW Block Type macro
 SYS-MAC-397
 Release a System Work Block (SWB) macro
 SYS-MAC-412
 Release Acquired Storage macro SYS-MAC-77
 Release Chain macro GEN-MAC-336
 Release Common Storage Block macro SYS-MAC-64
 Release Core Block and File Address macro
 GEN-MAC-319
 release core block and unhold file record
 CLS-UGR-408
 Release Core Block and Unhold File Record macro
 GEN-MAC-321
 Release Core Blocks That Are Not Attached to an ECB
 macro SYS-MAC-117
 Release Core Storage Block macro GEN-MAC-327
 Release Coupling Facility Work Block Address macro
 SYS-MAC-396
 release data level GEN-MAC-122
 release file record GEN-MAC-510
 release input signal SNA-PRM-27
 Release Input/Output Control Block (IOCB) Address
 macro SYS-MAC-75
 RELEASE option of DBRM AR-USG-35
 Release Program from Storage Lock macro
 GEN-MAC-331
 release storage MIG-GD1-307
 release storage block SYS-MAC-68
 Release Storage Block macro SYS-MAC-68
 Release Storage Blocks macro GEN-MAC-224
 release summary
 areas with changes in the TPF 4.1 system
 TPF 3.1 to TPF 4.1 system MIG-GD1-8
 features of the TPF 4.1 system MIG-GD1-7
 overview MIG-GD1-7, MIG-GD2-7
 Release System Heap Storage macro SYS-MAC-81,
 SYS-MAC-413
 Release System Work Block macro SYS-MAC-79
 release
 chained file records CLS-UGR-437
 file pool storage CLS-UGR-423
 program from core lock CLS-UGR-425
 storage from the system heap CLS-UGR-443
 working storage block CLS-UGR-421
 releasing a core block and file address CLS-UGR-624
 releasing a data event control block (DECB)
 CLS-UGR-580
 releasing programs APP-GDE-228
 releasing
 I/O control block address SYS-MAC-75
 RELFC macro APP-GDE-255, GEN-MAC-329
 reliability GIM-2
 Reliability and Serviceability SNA-PRM-276
 reload
 description of OPR-GDE-8
 RELPC error codes GEN-MAC-332
 RELPC macro GEN-MAC-331
 RELPC macro
 unlock programs MIG-GD1-306
 remote CP names
 define for TPF Advanced Peer-to-Peer Networking
 (TPF/APPN) MIG-GD2-160
 remote CP
 activating OPR-GDE-964
 CP-CP sessions
 ending OPR-GDE-969
 starting OPR-GDE-964
 ZNETW ACT command OPR-GDE-964
 ZNETW INACT command OPR-GDE-969
 remote data access AR-USG-1
 remote LU resources
 define
 resource definitions MIG-GD1-252
 SNA resources MIG-GD1-252

- remote LU resources (*continued*)
 - defining ACF-GDE-37, ACF-GDE-40
 - dynamic LU support MIG-GD1-252
- remote LU
 - modes
 - displaying OPR-GDE-1038
 - ZNRVT command OPR-GDE-1038
- REMOTE parameter
 - CTC statement ACF-GDE-51
- Remote Procedure Call APP-GDE-191
- remote procedure call (RPC)
 - overview MIG-GD2-16
 - remote procedure call MIG-GD2-16
- Remote Procedure Call
 - creating an interface APP-GDE-192
 - interface definition language (IDL) APP-GDE-191
 - maximum number of calls APP-GDE-195
 - maximum number of threads APP-GDE-195
 - performance and tuning APP-GDE-198
 - run-time library APP-GDE-193
 - servers APP-GDE-196
 - storage considerations APP-GDE-198
 - stub files APP-GDE-191
 - supported application programming interfaces (APIs) APP-GDE-193
 - supported RPC C header files APP-GDE-199
 - supported RPC DCE services APP-GDE-192
 - threads APP-GDE-196
 - universal unique identifier (UUID) APP-GDE-191
- remote unit of work AR-USG-1
- remove a directory CLS-UGR-439
- remove a file descriptor CLS-UGR-134
- remove a logical link from an adapter CLAWGR-393
- Remove IOBs Associated with an ECB Address macro SYS-MAC-218
- removing directory entry
 - entry removal CLS-UGR-668
 - opening CLS-UGR-384
 - reading with readdir CLS-UGR-415
 - removing CLS-UGR-439
 - renaming CLS-UGR-428
 - repositioning CLS-UGR-433
 - rewinding CLS-UGR-433
 - working CLS-UGR-252
- removing elements APP-GDE-108
- removing key paths APP-GDE-117
- removing VIPAs CLAWGR-65
- removing
 - all elements with specified value from collection CLS-UGR-1090
 - element from the browser dictionary CLS-UGR-1332
 - element represented by the key CLS-UGR-1219, CLS-UGR-1221
 - element the cursor is pointing at CLS-UGR-1176
 - element using the key CLS-UGR-1215, CLS-UGR-1217
 - first element with specified value from the collection CLS-UGR-1088
 - key paths from a collection CLS-UGR-1082
 - RBA CLS-UGR-1084
 - specified element at index CLS-UGR-1078
- renaming files CLS-UGR-428
- RENT standard, code samples APP-GDE-163
- reopening streams CLS-UGR-215
- REP PDV-PRM-28
- replace file storage control GEN-MAC-260
- replacing
 - element from the browser dictionary CLS-UGR-1226
 - element using the key CLS-UGR-1190, CLS-UGR-1196
 - element using the specified key CLS-UGR-1202, CLS-UGR-1208
 - specified entry's data with specified data CLS-UGR-913
- report, configuration SNA-PRM-49
- reports
 - 3990 Storage Control Device Summary Report for Cache Subsystem nnnn SPM-PRM-59
 - Coupling Facility Caching Summary report SPM-PRM-29
 - Coupling Facility Locking Summary report SPM-PRM-29
 - Coupling Facility Structure Summary report SPM-PRM-29
 - Coupling Facility Usage Summary report SPM-PRM-29
 - cylinder analysis SPM-PRM-47
 - data collection changes MIG-GD1-285
 - data reduction changes MIG-GD1-285, MIG-GD1-286
 - duplicate node name report ACF-GDE-32
 - examples ACF-GDE-63
 - file SPM-PRM-42
 - file reduction reports MIG-GD1-289
 - general reduction reports MIG-GD1-288
 - input list report ACF-GDE-31
 - LEID list report ACF-GDE-32
 - logical record cache summary report SPM-PRM-29
 - message reduction reports MIG-GD1-291
 - MQSeries message channel report SPM-PRM-79
 - MQSeries message queue report SPM-PRM-79
 - output reports MIG-GD1-288
 - plot SPM-PRM-39
 - plot reports MIG-GD1-286
 - program reduction reports MIG-GD1-290
 - program reports MIG-GD1-285
 - PSV report ACF-GDE-32
 - subarea report ACF-GDE-32
 - system SPM-PRM-13
 - system reduction reports MIG-GD1-288
 - TPF Internet mail server summary report SPM-PRM-33
 - update list report ACF-GDE-32
- representation, object-oriented (TPFCS) DBS-REF-164
- REPST PDV-PRM-28
- request a connection to a remote host
 - socket API function, connect CLAWGR-157
- Request a Mount, Dismount or Status of an SDA macro SYS-MAC-159
- request completion, informing the archive facility, TPFxd_archiveEnd CLS-UGR-1360

request for price quotation (RPQ)
 by protocol MIG-GD1-200, MIG-GD2-50
 support for MIG-GD1-190, MIG-GD2-40
 Transmission Control Protocol/Internet Protocol
 full-duplex socket support MIG-GD1-201,
 MIG-GD2-51
 request IPC service SYS-MAC-435
 Request Keypoint Filing macro GEN-MAC-266
 Request MPIF Service macro SYS-MAC-352
 request recovery (SNA command) SNA-PRM-23
 request system services CON-STR-58
 request the status of CLAW adapter CLAWGR-400
 request the status of CLAW logical links CLAWGR-400
 request unit (RU) SNA-PRM-46
 request unit (RU)
 chaining for NPSI SNA-PRM-31
 sizes SNA-PRM-31
 request unit
 calculating size AR-USG-28
 size requirements AR-USG-28
 REQUEST_TO_SEND SNA-PRM-76
 request-response header (RH) SNA-PRM-247
 request/response unit (RU)
 number of bytes to trace
 changing OPR-GDE-1052
 tracing OPR-GDE-1052
 ZNTRP command OPR-GDE-1052
 requesting a cross-domain session SNA-PRM-14
 required formats for STC input PDV-PRM-21
 required input
 SDMU function PDV-PRM-43
 sequence PDV-PRM-43
 STC programs PDV-PRM-44
 requirements, software SYS-GEN-173
 requirements
 CMC ownership of resources SNA-PRM-46
 hardware MIG-GD1-185, MIG-GD2-35
 product features MIG-GD1-196, MIG-GD2-46
 software MIG-GD1-196, MIG-GD2-46
 RESCAP macro SYS-GEN-302
 Reserve a Storage Block macro GEN-MAC-303
 reserve general tape CLS-UGR-644
 Reserve General Tape macro GEN-MAC-488
 Reserve macros GEN-MAC-19
 reserve percentages DBS-REF-39
 reserved node names ACF-GDE-34
 reserved registers
 register 8 program pointer APP-GDE-25
 register 9 ECB pointer APP-GDE-25
 reserved secondary action codes PSM-GDE-3
 reserving storage macro GEN-MAC-57
 Reset an I/O Operation macro SYS-MAC-406
 reset communication lines SYS-MAC-161
 reset error and end-of-file CLS-UGR-42
 Reset Pool Function Switch macro SYS-MAC-373
 reset release record global
 ZRREC RESET command OPR-GDE-1234
 Reset Supervisor State (Problem State) macro
 SYS-MAC-344
 reset, database reorganization DBS-REF-93
 resetting cursor to point to the first element
 CLS-UGR-1178
 residency of TPFCS collections CLS-UGR-1316
 residency, collection DBS-REF-173
 RESMC macro SYS-MAC-405
 resource addressing
 generation SYS-GEN-10
 resource allocation GEN-MAC-21
 resource application interface CLS-UGR-295
 resource application interface conversion
 GEN-MAC-271
 Resource Control control user exits
 LODIC Macro INS-PRM-62
 suspend ECB INS-PRM-85
 Suspend List Post-Interrupt INS-PRM-86
 suspend list resource checking INS-PRM-87
 TMSLC Macro INS-PRM-93
 resource control values
 altering and displaying MSP-PRM-29
 resource control
 API changes MIG-GD2-258
 architecture MIG-GD2-246
 C/C++ language MIG-GD2-247
 CINFC tags MIG-GD2-248
 commands MIG-GD2-253
 CONKC tags MIG-GD2-248
 copy members MIG-GD2-249
 database changes MIG-GD2-258
 feature changes MIG-GD2-258
 fixed file records MIG-GD2-250
 functional changes MIG-GD2-253
 functional overview MIG-GD2-246
 host system changes MIG-GD2-257
 installation validation MIG-GD2-258
 interfaces MIG-GD2-247
 loading process MIG-GD2-257
 macros MIG-GD2-250
 migration scenarios MIG-GD2-258
 offline messages MIG-GD2-254
 online messages MIG-GD2-254
 online system load MIG-GD2-257
 operating environment requirements MIG-GD2-247
 operational changes MIG-GD2-253
 overview MIG-GD1-17, MIG-GD2-246
 performance changes MIG-GD2-255
 planning information MIG-GD2-247
 prerequisite APARs MIG-GD2-246
 publication changes MIG-GD2-257
 segments MIG-GD2-251
 SIP changes MIG-GD2-255
 storage changes MIG-GD2-255
 storage considerations MIG-GD2-255
 system equates MIG-GD2-252
 system errors MIG-GD2-254
 system generation changes MIG-GD2-255
 tuning changes MIG-GD2-255
 user exits MIG-GD2-253
 resource definition bytes information GEN-MAC-271
 resource definitions
 ALS resources MIG-GD1-252, MIG-GD1-254
 CDRM resources MIG-GD1-252, MIG-GD1-254

resource definitions (*continued*)

- change for non-LU resources MIG-GD1–254
- changing OPR-GDE–956
- commands MIG-GD1–252, MIG-GD1–254
- creating OPR-GDE–953
- CTC resources MIG-GD1–252, MIG-GD1–254
- define MIG-GD1–252
- define
 - define for remote LU resources MIG-GD1–252
 - local applications MIG-GD1–252
 - LU resources MIG-GD1–252
- dynamic LU support MIG-GD1–252, MIG-GD2–18
- falling back OPR-GDE–1000
- load SNA resource definitions MIG-GD1–210
- loading OPR-GDE–1002
- NCP resources MIG-GD1–252, MIG-GD1–254
- rebuilding OPR-GDE–999
- resource vector table (RVT)
 - merging OPR-GDE–1004
- status of
 - displaying OPR-GDE–1007
- ZNDYN ADD command OPR-GDE–953
- ZNDYN CHANGE command OPR-GDE–956
- ZNOPL BUILD command OPR-GDE–999
- ZNOPL FALLBACK command OPR-GDE–1000
- ZNOPL LOAD command OPR-GDE–1002
- ZNOPL MERGE command OPR-GDE–1004
- ZNOPL STATUS command OPR-GDE–1007

resource ID information GEN-MAC–271

resource identifier (RID) SNA-PRM–21, SNA-PRM–45

resource identifier (RID)

- changes MIG-GD1–251, MIG-GD1–255
- converting OPR-GDE–943
- displaying OPR-GDE–958
- new application CON-STR–172
- specify MIG-GD1–76
- table changes MIG-GD2–191
- ZNCVT command OPR-GDE–943
- ZNDYN DISPLAY command OPR-GDE–958

resource IDs

- assigning to RVT entries SNA-PRM–180

resource lock CLS-UGR–305

resource locking SYS-MAC–56

resource manager CLS-UGR–651, CLS-UGR–712, DBS-REF–125

resource manager, TPF/APPC SNA-PRM–59

resource manager

- tx_open function CLS-UGR–651
- open CLS-UGR–651, CLS-UGR–712

resource name hash (RNH) tables

- displaying OPR-GDE–958
- statistical information
 - displaying OPR-GDE–958
- ZNDYN DISPLAY command OPR-GDE–958

resource name hash control table (RNHCT)

- description of SNA-PRM–181
- displaying OPR-GDE–958, SNA-PRM–183
- example of SNA-PRM–182
- ZNDYN DISPLAY command OPR-GDE–958

resource name hash entry table (RNHET)

- description of SNA-PRM–181

resource name hash entry table (RNHET) (*continued*)

- displaying OPR-GDE–958, SNA-PRM–183
- entries
 - recycling OPR-GDE–962
- example of SNA-PRM–182
- RVT available list SNA-PRM–181
- RVT termination list SNA-PRM–181
- RVT termination list
 - displaying OPR-GDE–958
 - recycle time OPR-GDE–974
 - recycling OPR-GDE–962
- synonym chain SNA-PRM–181
- synonym chain
 - displaying OPR-GDE–958
- ZNDYN DISPLAY command OPR-GDE–958
- ZNDYN RECYCLE command OPR-GDE–962
- ZNKEY command OPR-GDE–974

resource name hash prime table (RNHPT) entry

- obtaining address of SYS-MAC–212

resource name hash prime table (RNHPT)

- description of SNA-PRM–181
- displaying OPR-GDE–958, SNA-PRM–183
- entries
 - number defined OPR-GDE–978
- example of SNA-PRM–182
- hash buckets SNA-PRM–181
- ZNDYN DISPLAY command OPR-GDE–958
- ZNKEY command OPR-GDE–978

resource names ACF-GDE–33

resource resolution table (RRT)

- alternate RRT definitions
 - falling back to OPR-GDE–1000
- changes MIG-GD1–211
- content MIG-GD1–210, MIG-GD1–211
- create MIG-GD1–211
- current RRT definitions
 - reloading OPR-GDE–999
- falling back OPR-GDE–1000
- loading OPR-GDE–1002
- resource vector table (RVT)
 - merging OPR-GDE–1004
- status of
 - displaying OPR-GDE–1007
- updating OPR-GDE–1011
- ZNOPL BUILD command OPR-GDE–999
- ZNOPL FALLBACK command OPR-GDE–1000
- ZNOPL LOAD command OPR-GDE–1002
- ZNOPL MERGE command OPR-GDE–1004
- ZNOPL STATUS command OPR-GDE–1007
- ZNOPL UPDATE command OPR-GDE–1011

resource sharing facility GEN-MAC–15

resource vector table (RVT) APP-GDE–12, APP-GDE–42, CON-STR–178, SNA-PRM–71, SYS-GEN–140

Resource Vector Table (RVT) SNA-PRM–48

resource vector table (RVT)

- ALS section SNA-PRM–179
- changes MIG-GD1–252, MIG-GD1–287
- create MIG-GD1–211
- defining SNA-PRM–179
- delimiters SNA-PRM–181

- resource vector table (RVT) *(continued)*
 - description of SNA-PRM-179
 - display addresses MIG-GD1-78
 - display content MIG-GD1-78
 - entries
 - displaying OPR-GDE-1038
 - initializing OPR-GDE-1042
 - maximum number OPR-GDE-978
 - non-LU resources OPR-GDE-979
 - processing OPR-GDE-980
 - recycle time OPR-GDE-974
 - recycling OPR-GDE-962
 - example of SNA-PRM-180
 - falling back OPR-GDE-1000
 - initialize MIG-GD1-78, MIG-GD1-211
 - keypointing
 - time interval OPR-GDE-980
 - LU section SNA-PRM-179
 - non-LU section SNA-PRM-179
 - organization of SNA-PRM-179
 - rebuilding OPR-GDE-999
 - resource IDs (RIDs) SNA-PRM-180
 - resource name hash control table (RNHCT) SNA-PRM-181
 - resource name hash entry table (RNHET) SNA-PRM-181
 - resource name hash prime table (RNHPT) SNA-PRM-181
 - resource resolution table (RRT)
 - merging OPR-GDE-1004
 - RNHET synonym chain SNA-PRM-181
 - RVT available list SNA-PRM-181
 - RVT termination list SNA-PRM-181
 - SNA dynamic load
 - performing OPR-GDE-1002
 - SNA fresh load
 - forcing OPR-GDE-999
 - performing OPR-GDE-1002
 - spare entries SNA-PRM-180
 - termination list
 - displaying OPR-GDE-958
 - recycling OPR-GDE-962
 - ZNDYN DISPLAY command OPR-GDE-958
 - ZNDYN RECYCLE command OPR-GDE-962
 - ZNKEY command OPR-GDE-974, OPR-GDE-978, OPR-GDE-979, OPR-GDE-980
 - ZNOPL BUILD command OPR-GDE-999
 - ZNOPL FALLBACK command OPR-GDE-1000
 - ZNOPL LOAD command OPR-GDE-1002
 - ZNOPL MERGE command OPR-GDE-1004
 - ZNRVT command OPR-GDE-1038
 - ZNRVT INITIALIZE command OPR-GDE-1042
- resource vector table entry search CLS-UGR-445
- resource
 - activating and deactivating
 - implicitly SNA-PRM-201
 - active and inactive SNA-PRM-201
 - define CLS-UGR-49
 - gateway SNA-PRM-233
 - hold CLS-UGR-49
 - unhold CLS-UGR-50
- resources
 - defining SNA-PRM-193
- Response Protocol
 - 3614/3624 LU SNA-PRM-251
 - for device types SNA-PRM-247
- response protocols/error handling
 - interface SNA-PRM-262
 - LUSTAT sense SNA-PRM-262
 - sense codes SNA-PRM-262
- response time AR-USG-97, CON-STR-1, CON-STR-6, CON-STR-14
- response types SNA-PRM-247
- restart load process
 - bypass MIG-GD1-221
 - for core resident programs MIG-GD1-221
- restart tape operations SYS-MAC-495
- restart, cache DBS-REF-46
- restart, database reorganization DBS-REF-96, DBS-REF-98
- restart, IPC MSP-PRM-35
- restart, system SNA-PRM-101
- restart
 - and switchover SYS-GEN-3
 - area
 - core-image records SYS-GEN-88
 - size SYS-GEN-90
 - description of OPR-GDE-8
 - hardware GIM-16
 - software GIM-16
- restarting TPFCS at cycle up CLS-UGR-1334
- restore CON-STR-104
- restore capture tape DBS-REF-62
- restore considerations DBS-REF-65
- restore exception records DBS-REF-64
- restore keypoint 9
 - ZRDIR START RESTORE command OPR-GDE-1149
- restore keypoints DBS-REF-64
- restore logging records DBS-REF-64
- restore package SYS-GEN-155
- restore package
 - SIP macros SYS-GEN-155
- restore processing DBS-REF-62
- Restore Protection Key macro GEN-MAC-287
- restore recoup descriptors
 - ZRBKD command OPR-GDE-1141
- restore stack environment CLS-UGR-313
- restore the pool rollin directory
 - ZRDIR START RESTORE command OPR-GDE-1149
- restore timing estimate DBS-REF-71
- restore
 - file MIG-GD1-281
 - previously saved DBI and SSU IDs CLS-UGR-28
 - protection key CLS-UGR-296, CLS-UGR-297
 - records that cannot be restored MIG-GD1-281
 - TPF images MIG-GD1-281
- restoring
 - a captured collection CLS-UGR-1094
 - a collection as a temporary collection CLS-UGR-1096

restoring (*continued*)
 a collection using the specified options
 CLS-UGR-1098

Restricted authorization SYS-MAC-14

restricted C functions
 TCP/IP CLAWGR-385

restricted CDLC IP address CLAWGR-63

restricted functions
 claw_accept CLAWGR-386
 claw_closeadapter CLAWGR-388
 claw_connect CLAWGR-390
 claw_disconnect CLAWGR-393
 claw_end CLAWGR-395
 claw_initialization CLAWGR-396
 claw_openadapter CLAWGR-397
 claw_query CLAWGR-400
 claw_send CLAWGR-403

restricted macro authorization SYS-MAC-14

restricted use macro GEN-MAC-1

restrictions, cache DBS-REF-43, DBS-REF-47

resubmitted message SNA-PRM-21

resume a global transaction CLS-UGR-652

resume a suspended ECB SYS-MAC-219

Resume Normal CIO I/O Processing macro
 SYS-MAC-405

resume transaction APP-GDE-89

retentive write CON-STR-143

retentive writes, cache DBS-REF-44

retransmitting messages SNA-PRM-247

retrieve a control record macro SYS-MAC-72

Retrieve or Modify a Control Record macro
 SYS-MAC-72

retrieving a collection access mode CLS-UGR-1049

retrieving enterprise-specific MIB INS-PRM-202

Retrieving NCB and SPA Data Records (CSNB)
 SNA-PRM-287

retrieving Web pages CON-STR-193

retrieving
 attributes of key paths CLS-UGR-1281
 current directory for the specified RRN
 CLS-UGR-1276
 current key CLS-UGR-1141
 current key in the buffer CLS-UGR-1143
 current positioning information, TPFxd_getPosition
 CLS-UGR-1365
 current VOLSER and media type CLS-UGR-1369
 current VOLSER list and media type CLS-UGR-1371
 defined data definition names CLS-UGR-1283
 defined data store names CLS-UGR-1287
 element from the browser dictionary CLS-UGR-1224
 element using the specified key CLS-UGR-1188,
 CLS-UGR-1194, CLS-UGR-1200, CLS-UGR-1206
 previous positioning information, TPFxd_getPosition
 CLS-UGR-1367
 property names for a collection CLS-UGR-1043
 value for a property CLS-UGR-1060
 volume serial (VOLSER) for a specified tape name
 CLS-UGR-547

retry, cache I/O DBS-REF-42

return a context (CTX) structure to the system
 SSL API function, SSL_CTX_free CLAWGR-281

return a value for the file descriptor CLS-UGR-136

return codes
 testing TPFDF
 SW00RT2 SPM-22
 SW00RTN SPM-22

return data in the current SSL data record that is
 available for reading on an SSL session
 SSL API function, SSL_pending CLAWGR-318

return error information about an SSL API
 SSL API function, SSL_get_error CLAWGR-307

return file pool address CON-STR-128

Return File Pool Address macro GEN-MAC-329

return file pool address macro (RELFC) CON-STR-123

Return from CIO Input/Output (I/O) Interrupt Processing
 macro SYS-MAC-323

Return from PIO I/O Interrupt Processing macro
 SYS-MAC-380

return of control APP-GDE-17

return PAT slot address CLS-UGR-398

return pointer to a string in dotted decimal notation
 socket API function, inet_ntoa CLAWGR-184

return program information SYS-MAC-371

Return Program Information macro SYS-MAC-390

return sequence collection CLS-UGR-1327

return socket options
 socket API function, getsockopt CLAWGR-176

return the cipher name associated with a specific SSL
 session
 SSL API function, SSL_get_cipher CLAWGR-305

return the error code set by a socket call
 socket API function, sock_errno CLAWGR-222

return the name of the local socket
 socket API function, getsockname CLAWGR-174

return the name of the peer
 socket API function, getpeername CLAWGR-168

return the offload device name
 socket API function, gethostname CLAWGR-166

return the peer certificate received from an SSL session
 SSL API function, SSL_get_peer_certificate
 CLAWGR-309

Return the Physical Size of a Storage Block macro
 SYS-MAC-376

return the protocol version of the current SSL
 connection
 SSL API function, SSL_get_version CLAWGR-313

return the result of the remote peer certificate validation
 SSL API function, SSL_get_verify_result
 CLAWGR-311

Return to CP Calling Routine and Reset Stack Pointer
 macro SYS-MAC-409

return to previous program record macro GEN-MAC-36

return to previous program record macro (BACKC)
 CON-STR-80

return to the system the SSL structure associated with
 an SSL session
 SSL API function, SSL_free CLAWGR-304

returning an 8-byte file address base CLS-UGR-587

returning
 associated error text CLS-UGR-879
 copy of the specified PID of the collection
 CLS-UGR-927

- returning *(continued)*
 - current index position CLS-UGR-1145
 - current key value CLS-UGR-1149, CLS-UGR-1151
 - data in specified position in the specified collection CLS-UGR-903
 - data in the supplied buffer CLS-UGR-922
 - element cursor points at CLS-UGR-1119, CLS-UGR-1123
 - error codes CLS-UGR-877
 - head of chain file addresses CLS-UGR-1325
 - maximum data length value CLS-UGR-1057, CLS-UGR-1058
 - maximum number of entries for the CLS-UGR-1074
 - next element CLS-UGR-1170
 - next element with no cursor movement CLS-UGR-1168
 - number of records CLS-UGR-1295
 - return to the next x bytes CLS-UGR-1163
 - sort field values CLS-UGR-1062
 - to the previous element CLS-UGR-1172, CLS-UGR-1174
- returns a copy of the SSL session information for a specific SSL structure
 - SSL API function, SSL_get_session CLAWGR-310
- returns host identifier
 - socket API function, gethostid CLAWGR-164
- reverse ANR field SNA-PRM-138
- rewind a stream CLS-UGR-431
- rewind general tape and wait CLS-UGR-643
- Rewind General Tape and Wait macro GEN-MAC-486
- RFS DBS-REF-29
- RH indicators
 - description SNA-PRM-312
- RHNET synonym chain
 - displaying OPR-GDE-958
 - ZNDYN DISPLAY command OPR-GDE-958
- RIAT (record ID attribute table) INS-PRM-373
- RIAT access SYS-MAC-407
- RIAT pool overrides
 - description of OPR-GDE-1239, OPR-GDE-1242
 - record caching candidacy
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - VFA candidacy
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - ZRTDM DISPLAY command OPR-GDE-1239
 - ZRTDM MODIFY command OPR-GDE-1242
- RIAT processing INS-PRM-75
- RIAT, cache DBS-REF-45
- RIAT, record ID attribute table DBS-REF-138
- RIATA FINISH macro SYS-GEN-304
- RIATA ID macro SYS-GEN-305
- RIATA macro SYS-GEN-185
- RIATA START marco SYS-GEN-311
- RID and RVT conversions SNA-PRM-287
- RID Conversion macro GEN-MAC-333
- RID information GEN-MAC-271
- RID validation GEN-MAC-333
- RIDCC macro GEN-MAC-333
- RIOBC macro
 - See \$RIOBC macro
- RIOBC macro SYS-MAC-406
- RIP CLAWGR-68
- RISC System/6000 SNA-PRM-2, SNA-PRM-244
- RITID macro SYS-MAC-407
- RLCHA macro GEN-MAC-336
- RLNKC macro SYS-MAC-409
- RNHET synonym chain
 - description of SNA-PRM-181
- RNHPT entry
 - obtaining address of SYS-MAC-212
- RNHPT hash buckets
 - description of SNA-PRM-181
 - DHASHC macro SNA-PRM-183
- role in the Internet CLAWGR-7
- roll back work done for a transaction branch CLS-UGR-718
- roll call CON-STR-110
- rollback a global transaction CLS-UGR-654
- rollback data SPM-PRM-26
- rollback request
 - processing OPR-GDE-228
 - ZCORO command OPR-GDE-228
- rollback rule APP-GDE-96
- rollback transaction APP-GDE-89, CON-STR-12
- root commit scope APP-GDE-90
- ROUT-type macro SNA-PRM-48
- ROUTC SNA-PRM-100
- ROUTC bridge, TPF MQSeries APP-GDE-84
- ROUTC exit SNA-PRM-319
- ROUTC macro APP-GDE-23, GEN-MAC-12, GEN-MAC-338, SNA-PRM-21, SNA-PRM-27, SNA-PRM-250, SNA-PRM-251
- ROUTC macro
 - data collection SYS-MAC-24
- ROUTC messages GEN-MAC-559
- ROUTC processing INS-PRM-77
- route a message CLS-UGR-441
- Route a Message macro GEN-MAC-338
- route a message macro (ROUTC) CON-STR-182
- route a message macro (ROUTC)
 - presentation services CON-STR-183
- route messages
 - to CRAS console MIG-GD1-80
- ROUTE_SETUP process SNA-PRM-136
- ROUTER processing SNA-PRM-6
- routers
 - overview MIG-GD2-27
- routing control application table GEN-MAC-316
- routing control application table (RCAT) APP-GDE-42, CON-STR-131, CON-STR-178, SNA-PRM-22
- routing control application table (RCAT)
 - display MIG-GD1-68
 - displaying OPR-GDE-355
 - start an application in MIG-GD1-80
 - stop an application in MIG-GD1-80
 - use by switch entry to another I-stream engine macro (SWISC) CON-STR-86
 - ZDRCT command OPR-GDE-355

- routing control block (RCB) APP-GDE-12, APP-GDE-48, CON-STR-180, SNA-PRM-19
- routing control block (RCB)
 - initializing OPR-GDE-1145
 - ZRCBI command OPR-GDE-1145
- routing control parameter list (RCPL) APP-GDE-12, APP-GDE-23, APP-GDE-38, CON-STR-68, CON-STR-171, CON-STR-177, CON-STR-178, SNA-PRM-21, SNA-PRM-27
- routing control parameter list (RCPL)
 - construction of CON-STR-178
 - data area APP-GDE-39
 - description of APP-GDE-155
 - destination field SNA-PRM-21
 - function management message router (FMMR) CON-STR-182
 - indicators SNA-PRM-22
 - origin field SNA-PRM-21
 - passed between TPF and IMS SNA-PRM-28
 - terminal control block CON-STR-181
- routing information protocol (RIP) CLAWGR-68
- Routing Information Protocol (RIP) in IP trace table OPR-GDE-1413
- routing information
 - explicit
 - displaying OPR-GDE-972
 - virtual pacing
 - displaying OPR-GDE-972
 - virtual
 - displaying OPR-GDE-972
 - ZNETW ROUTE command OPR-GDE-972
- routing table entries and SNMP CLAWGR-99
- row AR-USG-80
- row
 - and primary key/index AR-USG-80
 - definition of AR-USG-111
 - explanation of AR-USG-27
 - in relational databases AR-USG-27
- RPC process model APP-GDE-173, APP-GDE-177
- RPE tapes OPR-GDE-19
- RPI tapes OPR-GDE-19
- RPQs by protocol
 - 3705 EP/VS RPQs by protocol MIG-GD1-200, MIG-GD2-50
- RPVRC macro SYS-MAC-411
- RRT definitions
 - alternate
 - falling back to OPR-GDE-1000
 - current
 - rebuilding OPR-GDE-999
 - resource vector table (RVT)
 - merging OPR-GDE-1004
 - status of
 - displaying OPR-GDE-1007
 - updating OPR-GDE-1011
 - ZNOPL BUILD command OPR-GDE-999
 - ZNOPL FALLBACK command OPR-GDE-1000
 - ZNOPL MERGE command OPR-GDE-1004
 - ZNOPL STATUS command OPR-GDE-1007
 - ZNOPL UPDATE command OPR-GDE-1011
- RSC SNA-PRM-61
- RSC deck
 - CDRM statement ACF-GDE-38
 - description of ACF-GDE-37
 - example ACF-GDE-60
 - RSC statement ACF-GDE-40
 - RSCDEF statement ACF-GDE-39
 - RSCEND statement ACF-GDE-45
 - RSCSET statement ACF-GDE-44
- RSC statement
 - AWARE parameter ACF-GDE-44
 - CCTYPE parameter ACF-GDE-42
 - CHAIN parameter ACF-GDE-44
 - description of ACF-GDE-40
 - example ACF-GDE-60
 - IATA parameter ACF-GDE-43
 - LEID parameter ACF-GDE-43
 - LUMOD parameter ACF-GDE-42
 - LUTYPE parameter ACF-GDE-41
 - MODE parameter ACF-GDE-43
 - PRSHR parameter ACF-GDE-44
 - PSV parameter ACF-GDE-43
 - RECVRY parameter ACF-GDE-43
 - SCSBUF parameter ACF-GDE-42
 - symbol parameter ACF-GDE-40
 - THREAD parameter ACF-GDE-43
 - UMODE parameter ACF-GDE-43
- RSCDEF statement
 - description of ACF-GDE-39
 - example ACF-GDE-60
 - NETID parameter ACF-GDE-40
 - symbol parameter ACF-GDE-40
- RSCEND statement
 - description of ACF-GDE-45
 - example ACF-GDE-60
 - symbol parameter ACF-GDE-45
- RSCSET statement
 - description of ACF-GDE-44
 - example ACF-GDE-60
 - symbol parameter ACF-GDE-45
- RSPTO parameter
 - SNAKEY macro ACF-GDE-18
- RSWBC macro SYS-MAC-412
- RSYSC macro SYS-MAC-413
- RT (real-time) table SYS-GEN-179
- RTA tapes OPR-GDE-19
- RTC tape file OPR-GDE-1474
- RTC tape
 - use by data collection MIG-GD1-285
- RTC tapes OPR-GDE-19
- RTCUC macro GEN-MAC-340
- RTL tapes OPR-GDE-19
- RTL/RTA PDV-PRM-12
- RTP connection resynchronization process
 - description of SNA-PRM-163
 - enabling
 - SNAKEY macro SNA-PRM-167
 - ZNKEY command SNA-PRM-167
- RTP nodes SNA-PRM-127, SNA-PRM-143
- RTP output queue
 - description of SNA-PRM-170

- RTP resynchronization process
 - enabling ACF-GDE-18
- RTPCB entries
 - displaying OPR-GDE-1023
 - initializing OPR-GDE-1032
 - ZNRTTP DISPLAY command OPR-GDE-1023
 - ZNRTTP INITIALIZE command OPR-GDE-1032
- RTPRSYNC parameter
 - SNAKEY macro ACF-GDE-18
- RTS (real-time special) table SYS-GEN-179
- RTT (real time trace) GIM-26
- RTT option table
 - changes MIG-GD1-234
- RTT processing overview PDV-PRM-51
- RTT-RTY tapes OPR-GDE-19
- RTx tapes OPR-GDE-19
- RU (request unit)
 - chaining for NPSI SNA-PRM-31
 - sizes SNA-PRM-31
- RU sizes and pacing considerations for VTAM
 - AR-USG-19
- rules SPM-6
- rules for cursor movement and positioning
 - APP-GDE-113
- rules to determine file accessibility APP-GDE-171
- run time
 - for a processor MIG-GD2-109
 - program residency determination MIG-GD1-217
- run-time authorization
 - CINFC WRITE MIG-GD1-278
 - common blocks MIG-GD1-278
 - key 0 MIG-GD1-278
 - MONTC macro MIG-GD1-278
 - overview MIG-GD1-278
 - privileges MIG-GD1-278
 - storage protection key MIG-GD1-278
 - supervisor state MIG-GD1-278
- run-time macro restriction
 - overview MIG-GD1-17
- RUNID APP-GDE-285
- RUNID record
 - specifications for
 - database restore indicator PDV-PRM-7
 - global storage load PDV-PRM-7
 - message input mode PDV-PRM-7
 - number of messages in system PDV-PRM-7
 - online terminal use PDV-PRM-7
 - pilot system identification PDV-PRM-7
 - running state PDV-PRM-7
 - screen reset indicator PDV-PRM-7
 - test unit identifier PDV-PRM-7
 - user comments PDV-PRM-8
 - user of pilot tape PDV-PRM-7
- RUNID
 - fields PDV-PRM-21
 - for PTV control records PDV-PRM-7
 - format PDV-PRM-21
 - identification of pilot systems PDV-PRM-21
 - identification of test units PDV-PRM-17, PDV-PRM-21
 - keyboard lock PDV-PRM-66

- RUNID (*continued*)
 - package test PDV-PRM-7
 - pilot tapes PDV-PRM-37
 - Program Test Vehicle PDV-PRM-5
 - unit test PDV-PRM-7
- running PTV
 - overview of input PDV-PRM-5
- RVT (resource vector table) SNA-PRM-71
- RVT available list
 - description of SNA-PRM-181
- RVT entries
 - address of
 - displaying OPR-GDE-958
 - displaying OPR-GDE-1038
 - initializing OPR-GDE-1042
 - maximum number
 - displaying OPR-GDE-978
 - non-LU resources
 - maximum number OPR-GDE-979
 - processing OPR-GDE-980
 - recycle time
 - changing OPR-GDE-974
 - description of OPR-GDE-974
 - displaying OPR-GDE-974
 - recycling OPR-GDE-962
 - ZNDYN DISPLAY command OPR-GDE-958
 - ZNDYN RECYCLE command OPR-GDE-962
 - ZNKEY command OPR-GDE-974, OPR-GDE-978, OPR-GDE-979, OPR-GDE-980
 - ZNRVT command OPR-GDE-1038
 - ZNRVT INITIALIZE command OPR-GDE-1042
- RVT entry search SYS-MAC-415
- RVT termination list
 - address of
 - displaying OPR-GDE-958
 - description of SNA-PRM-181
 - recycle time
 - changing OPR-GDE-974
 - description of OPR-GDE-974
 - displaying OPR-GDE-974
 - recycling OPR-GDE-962
 - ZNDYN DISPLAY command OPR-GDE-958
 - ZNDYN RECYCLE command OPR-GDE-962
 - ZNKEY command OPR-GDE-974
- RVTCC macro SYS-MAC-415
- RVTCTRL parameter
 - SNAKEY macro ACF-GDE-18
- RVTx validation GEN-MAC-333
- RWGTC macro SYS-MAC-418

S

- S_IRGRP symbolic constant CLS-UGR-483
- S_IROTH symbolic constant CLS-UGR-484
- S_IRUSR symbolic constant CLS-UGR-483
- S_ISBLK(mode) macro CLS-UGR-317
- S_ISCHR(mode) macro CLS-UGR-317, CLS-UGR-514
- S_ISDIR(mode) macro CLS-UGR-317, CLS-UGR-514
- S_ISLNK(mode) macro CLS-UGR-317, CLS-UGR-514
- S_ISREG(mode) macro CLS-UGR-317, CLS-UGR-514
- S_IWGRP symbolic constant CLS-UGR-484
- S_IWOTH symbolic constant CLS-UGR-484

S_IWUSR symbolic constant CLS-UGR-483
 S-level error messages ACF-GDE-31
 SAA (Systems Application Architecture)
 definition of AR-USG-112
 distributed access capability of AR-USG-1
 safe store file copy
 input messages
 creating OPR-GDE-977
 ZKEY command OPR-GDE-977
 SAL reports INS-PRM-407
 SALO statement
 to code MIG-GD1-218
 sample code written to the RENT standard
 APP-GDE-163
 sample macro statement GEN-MAC-6
 sample SDMU REGEN run PDV-PRM-42
 sample SDMU UPDAT run PDV-PRM-40
 sample STC input INS-PRM-314
 sample TCP/IP network
 description CLAWGR-13
 TPF system connected to one IP network
 CLAWGR-41
 sampling mode in data collection SPM-PRM-6
 sampling mode
 data collection MIG-GD1-286
 SANQC macro SYS-MAC-419
 save areas APP-GDE-38
 save current DBI and SSU IDs CLS-UGR-29
 save link data and set stack pointer SYS-MAC-448
 save stack environment CLS-UGR-470
 save
 header for wtopc CLS-UGR-704
 routing list for wtopc CLS-UGR-706
 saved set-group-ID APP-GDE-168
 saved set-user-ID APP-GDE-168
 saving registers APP-GDE-162
 SAWARE parameter
 ANTNME statement ACF-GDE-37
 SAWNC macro GEN-MAC-345
 SBDTAC SYSTC tag INS-PRM-138
 scan GEN-MAC-31
 Scan Data Field macro GEN-MAC-349
 scan input for variables CLS-UGR-447
 Scan Input Message for Keywords macro GEN-MAC-72
 SCANA macro GEN-MAC-349
 SCB APP-GDE-10
 SCB (session control block) SNA-PRM-21,
 SNA-PRM-68
 SCB ID
 TPF/APPC sessions MIG-GD1-76
 SCB validation GEN-MAC-333
 SCBID information GEN-MAC-271
 SCBID validation GEN-MAC-333
 schedule an alarm CLS-UGR-13
 Schedule an ECB to Exit or Resume macro
 SYS-MAC-219
 scheduler
 algorithm SYS-GEN-50
 tightly coupled SYS-GEN-48
 scheduling APP-GDE-153
 SCHID SYS-GEN-87
 SCK/PKST communications network specification
 SYS-GEN-337
 scratch pad area ACF-GDE-52
 scratch pad area (SPA) SNA-PRM-19
 scratch pad area (SPA) records
 initializing OPR-GDE-1051
 ZNSPA command OPR-GDE-1051
 scratchpad area (SPA) CON-STR-180
 scratchpad area (SPA)
 initialize MIG-GD1-78
 screen reset indicator
 for Diagnostic Output Formatter PDV-PRM-66
 scripts
 activating from command line OPR-GDE-434
 editing script OPR-GDE-524
 ZFILE command OPR-GDE-434
 ZFILE sed command OPR-GDE-524
 SCSBUF parameter
 RSC statement ACF-GDE-42
 SD1 form control buffer
 CUAG program OPR-GDE-100
 defining OPR-GDE-100
 loading OPR-GDE-100
 ZAURS FCBL command OPR-GDE-100
 SD2 form control buffer
 CUAG program OPR-GDE-100
 defining OPR-GDE-100
 loading OPR-GDE-100
 ZAURS FCBL command OPR-GDE-100
 SD3 form control buffer
 CUAG program OPR-GDE-100
 defining OPR-GDE-100
 loading OPR-GDE-100
 ZAURS FCBL command OPR-GDE-100
 SDA SYS-GEN-87, SYS-MAC-281, SYS-MAC-326
 SDA activity exception report SPM-PRM-46
 SDA halt and clear I/O SYS-MAC-406
 SDA I/O SYS-MAC-436
 SDAT ACF-GDE-4
 SDAT (Symbolic Device Address Table) SNA-PRM-233
 SDD (SQL database management system directory)
 AR-USG-14, AR-USG-15, AR-USG-17
 SDD (SQL database management system directory)
 adding an entry using ZSQLD AR-USG-16
 definition of AR-USG-112
 SDF PDV-PRM-12, PDV-PRM-17
 SDF (input pilot tape) APP-GDE-288
 SDF tapes OPR-GDE-19
 SDLC support SNA-PRM-49, SYS-GEN-123
 SDMF (standard data message file) SYS-GEN-121
 SDMF generation
 input for PDV-PRM-38
 SDMF regeneration PDV-PRM-41
 SDMF
 description of PDV-PRM-17, PDV-PRM-23
 GROUP records PDV-PRM-23
 SDMU
 ALTER PDV-PRM-40
 CREAT PDV-PRM-38
 DELET PDV-PRM-40
 DUMPD PDV-PRM-42

SDMU (continued)

- DUMPR PDV-PRM-42
- DUMPT PDV-PRM-43
- END PDV-PRM-39
- ENTER PDV-PRM-38
- generation PDV-PRM-38
- overview PDV-PRM-37
- REGEN PDV-PRM-41
- required input PDV-PRM-43
- sample REGEN run PDV-PRM-42
- sample UPDAT run PDV-PRM-40
- UPDAT PDV-PRM-39

SDPSID parameter

- ANTDEF statement ACF-GDE-35
- EXEC PARM field ACF-GDE-29

search CRAS status table CLS-UGR-51

Search CRAS Status Table macro SYS-MAC-175

Search RVT Entries macro SYS-MAC-415

searching

- collection for a specified key CLS-UGR-905
- collection for an element CLS-UGR-1064
- CRAS status table CLS-UGR-51
- deleting the specified key from the collection CLS-UGR-1080
- RVT entries CLS-UGR-445
- specified collection for a specified key CLS-UGR-907, CLS-UGR-909, CLS-UGR-911

SECACPT keyword of VTAM APPL statement

- specifying ALREADYV AR-USG-19

secondary action codes PSM-GDE-3

secondary directory

- description of APP-GDE-70

secondary host node SNA-PRM-4

secondary library routines for TARGET(TPF)

- description of APP-GDE-70

secondary logical unit (SLU) SNA-PRM-3

secondary logical unit (SLU)

- description MIG-GD1-251
- processing for TPF/APPC MIG-GD1-76

secondary logical unit

- SLU THREAD SNA-PRM-19

secondary LU

- ANTNME statement
- APPL parameter ACF-GDE-37
- SAWARE parameter ACF-GDE-37
- session awareness ACF-GDE-37
- threads ACF-GDE-37

secondary supervisor call (SVC)

- specify in supervisor call (SVC) tables MIG-GD1-231

secondary SVCs MSP-PRM-19

Secure Sockets Layer (SSL) Daemon Processes

- managing OPR-GDE-1298

Secure Sockets Layer (SSL) support CLAWGR-273

Secure Sockets Layer (SSL) support

- API changes MIG-GD2-1066
- architecture MIG-GD2-1062
- C/C++ language MIG-GD2-1062
- CINFC tags MIG-GD2-1064
- CONKC tags MIG-GD2-1064
- copy members MIG-GD2-1064
- database changes MIG-GD2-1066

Secure Sockets Layer (SSL) support (continued)

- feature changes MIG-GD2-1066
- fixed file records MIG-GD2-1064
- functional changes MIG-GD2-1065
- functional overview MIG-GD2-1061
- host system changes MIG-GD2-1066
- installation validation MIG-GD2-1066
- interfaces MIG-GD2-1062
- loading process MIG-GD2-1065
- macros MIG-GD2-1064
- migration scenarios MIG-GD2-1067
- online system load MIG-GD2-1065
- operating environment requirements MIG-GD2-1062
- operational changes MIG-GD2-1065
- overview MIG-GD2-17, MIG-GD2-1061
- performance changes MIG-GD2-1065
- planning information MIG-GD2-1062
- prerequisite APARs MIG-GD2-1061
- publication changes MIG-GD2-1066
- segments MIG-GD2-1065
- SIP changes MIG-GD2-1065
- storage changes MIG-GD2-1065
- storage considerations MIG-GD2-1065
- system equates MIG-GD2-1065
- system generation changes MIG-GD2-1065
- tuning changes MIG-GD2-1065
- user exits MIG-GD2-1065

security AR-USG-19

security, program and database PDV-PRM-4

security

- conversational and TPF/APPC AR-USG-19
- functions CLS-UGR-1405
- handling in programs CLS-UGR-1409
- operator, terminal, and application APP-GDE-42
- session level and TPF/APPC AR-USG-19
- TFTP server APP-GDE-174

see if a signal is a member of a signal set CLS-UGR-494

seek time CON-STR-112, SYS-GEN-57

segment allocation and TPFAR performance AR-USG-99

segment name, program PDV-PRM-10

segment table CON-STR-26

segment

- CLE5 MIG-GD1-168
- CLEM MIG-GD2-74
- CMW0 MIG-GD1-168
- CMW3 MIG-GD1-168
- CSA3 MIG-GD2-196
- JRA3 MIG-GD2-176

segmentation, HPR

- description of SNA-PRM-174
- THDR chaining SNA-PRM-175, SNA-PRM-176

segmented messages SNA-PRM-248

segments

- activating from command line OPR-GDE-434
- ZFILE command OPR-GDE-434

SELEC macro GEN-MAC-353

select a thread application interface CLS-UGR-448

Select a Thread Application Interface macro GEN-MAC-353

Select an RTP Connection user exit (URTP)
 SNA-PRM-136

SELECT macro group
 description of SPM-119
 ENDSEL macro SPM-119
 example of SPM-121
 OTHERW macro SPM-119
 SELECT macro SPM-119
 WHEN macro SPM-119

select or poll an open file descriptor CLS-UGR-1425
 select or poll cleanup of an open file descriptor
 CLS-UGR-1427

selection
 #CASE macro group SPM-31
 #IF macro group SPM-65
 CASE macro group SPM-92
 definition of SPM-4
 IF macro group SPM-106
 SELECT macro group SPM-119

selective dump address table
 relationship to SMDT MIG-GD1-265

selective file dump (SFD)
 start MIG-GD1-81
 ZSELD command OPR-GDE-1251

selective file dump and trace (SFDT) APP-GDE-291

selective file dump and trace (SFDT)
 changes MIG-GD1-234
 description MIG-GD1-234
 start MIG-GD1-83
 stop MIG-GD1-83
 ZSELD command OPR-GDE-1251
 ZTHLT command OPR-GDE-1342
 ZTRCE command OPR-GDE-1387

Selective File Dump and Trace (SFDT)
 description of PDV-PRM-53

selective file dump and trace
 description of PDV-PRM-53
 system test compiler PDV-PRM-53

Selective File Dump and Trace
 description of PDV-PRM-1

selective file dump
 alpha pointers description PDV-PRM-54
 description of PDV-PRM-53
 Diagnostic Output Formatter PDV-PRM-66
 output PDV-PRM-54, PDV-PRM-66
 output on log tape PDV-PRM-61

selective file trace (SFT)
 ZTHLT command OPR-GDE-1342
 ZTRCE command OPR-GDE-1387

selective file trace
 alpha pointers description PDV-PRM-55
 diagnostic output formatter PDV-PRM-66
 file address logging PDV-PRM-53
 logging function PDV-PRM-66
 output PDV-PRM-54, PDV-PRM-66
 output on log tape PDV-PRM-61
 processing overview PDV-PRM-56
 trace period PDV-PRM-53

selective memory dump facility (SMDF)
 control dump content MIG-GD1-13
 overview MIG-GD1-13

selective memory dump facility (SMDF) *(continued)*
 selective memory dump table (SMDT)
 changes MIG-GD1-238
 control dump content MIG-GD1-9, MIG-GD1-264
 generate entries using the IDATG macro
 MIG-GD1-237
 IDATG calls MIG-GD1-238
 relationship to selective dump address table
 MIG-GD1-265
 tailor dump content MIG-GD1-13

selective memory dump table (SMDT)
 controlling dump content OPR-GDE-12

selective memory dump table
 building SYS-MAC-289
 description of MSP-PRM-42
 generating entries SYS-MAC-293

selective retransmission, HPR
 description of SNA-PRM-173

self-defining terms GEN-MAC-56

self-modifying program
 program allocation MIG-GD1-219

send a message on an active logical link CLAWGR-403

send a message to the control log CLS-UGR-523

send a signal to a process CLS-UGR-298

Send Control Message to 3270 macro SYS-MAC-450

send data on a connected socket
 socket API function, send CLAWGR-206

send data on an unconnected socket
 socket API function, sendto CLAWGR-212

send data to SNA LU SYS-MAC-453

Send LMT High Speed Transmission macro
 SYS-MAC-446

Send LU 6.2 Message from OMT macro SYS-MAC-462

send macros GEN-MAC-12

Send Message to CRAS macro SYS-MAC-173

Send Message to Terminal macro SYS-MAC-422

send messages on a socket
 socket API function, sendmsg CLAWGR-210

send system message GEN-MAC-559

SEND_DATA SNA-PRM-76

SEND_ERROR SNA-PRM-77

SEND-type macro SNA-PRM-48

send
 enterprise-specific trap to SNMP application
 CLS-UGR-608
 system message CLS-UGR-700, CLS-UGR-707

SENDC macro SYS-MAC-422

SENDC macro
 data collection SYS-MAC-24

SENDC messages GEN-MAC-559

SENDC processing INS-PRM-77

sending output message CON-STR-181

sending SNMP enterprise-specific traps GEN-MAC-283

sense table
 size of OPR-GDE-981
 ZNKEY command OPR-GDE-981

sequence collection CON-STR-163, DBS-REF-136

sequence collection, returning CLS-UGR-1327

sequence counter APP-GDE-108, APP-GDE-115

sequence number SNA-PRM-23

sequence number control MPI-PRM-19

- sequence number field table
 - slots
 - number defined OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- sequence
 - definition of SPM-4
- sequential file access SPM-PRM-84
- sequential file access summary SPM-PRM-46
- sequential processing CON-STR-55
- serial number
 - lstat CLS-UGR-317
 - stat CLS-UGR-513
- serialization CON-STR-30
- serially reusable CON-STR-84
- serially reusable program CON-STR-42
- serially reusable program
 - contrast with reentrant program CON-STR-42
- serrc function APP-GDE-234
- SERRC macro GEN-MAC-357, PSM-GDE-11
- SERRC processing GEN-MAC-291
- server code, sample
 - TCP server CLAWGR-371
 - UDP server CLAWGR-376
 - using activate_on_receipt function, CLAWGR-367
- server, TFTP CLAWGR-239
- servers
 - loosely coupled considerations MIG-GD1-185, MIG-GD2-35
 - overview MIG-GD1-185, MIG-GD2-35
 - system support MIG-GD1-277
 - tightly coupled considerations MIG-GD1-185, MIG-GD2-35
 - types MIG-GD1-185, MIG-GD2-35
- service for subsystem access SYS-MAC-185
- service LU, TPF/APPC SNA-PRM-103
- service LUs AR-USG-12
- service macros GEN-MAC-xv
- service request for MPIF SYS-MAC-352
- service transaction program, TPF/APPC SNA-PRM-103
- session SNA-PRM-3
- session activation SNA-PRM-20
- session activation flow SNA-PRM-345
- session activation flow
 - APPN SNA-PRM-374
 - APPN-Subarea SNA-PRM-384
 - CDRM-CDRM session SNA-PRM-345
 - CP-CP sessions SNA-PRM-374
 - FMMR-FMMR session SNA-PRM-352
 - host-node SLU session SNA-PRM-350
 - LEN SNA-PRM-345, SNA-PRM-359
 - LU 6.2 session SNA-PRM-359
 - LU-LU sessions SNA-PRM-375
 - printer sharing SNA-PRM-380
 - PU 2.1 LEN SNA-PRM-345, SNA-PRM-359
 - PU 5 SNA-PRM-345
 - PU 5 LU 6.2 session (TPF PLU) SNA-PRM-356
 - PU 5 LU 6.2 session (TPF SLU) SNA-PRM-358
 - Subarea-APPN SNA-PRM-384
 - TPF APPL (PLU) and remote APPL (SLU) SNA-PRM-347
 - TPF APPL and remote 3270 SNA-PRM-354
- session address (SA)
 - converting OPR-GDE-943
 - ZNCVT command OPR-GDE-943
- session addresses SNA-PRM-140
- session awareness SNA-PRM-215
- session awareness
 - SLU threads
 - SAWARE parameter ACF-GDE-37
- session control block (SCB) SNA-PRM-21, SNA-PRM-68
- session control block (SCB)
 - definition for TPF/APPC sessions MIG-GD1-77
 - display CCB information MIG-GD1-75
 - display for TPF/APPC sessions MIG-GD1-78
 - initialize for TPF/APPC sessions MIG-GD1-78
 - specify MIG-GD1-76
- session control block identifier (SCBID)
 - converting OPR-GDE-943
 - displaying OPR-GDE-946
 - logical unit (LU)
 - displaying OPR-GDE-946
 - ZNCVT command OPR-GDE-943
 - ZNDLU command OPR-GDE-946
- session control block information GEN-MAC-271
- session control blocks (SCBs)
 - active
 - number of OPR-GDE-1043
 - displaying OPR-GDE-1043
 - inactive
 - number of OPR-GDE-1043
 - initializing OPR-GDE-923, OPR-GDE-1045
 - maximum number
 - displaying OPR-GDE-978
 - number of
 - displaying OPR-GDE-1043
 - ZNCCB command OPR-GDE-923
 - ZNKEY command OPR-GDE-978
 - ZNSCB command OPR-GDE-1043
 - ZNSCB INITIALIZE command OPR-GDE-1045
- Session Control via VTAM SSCP SNA-PRM-46
- session deactivation flow
 - APPN SNA-PRM-383
 - CDRM-CDRM session SNA-PRM-360
 - FMMR-FMMR session SNA-PRM-369
 - host-node SLU session SNA-PRM-366
 - LU 6.2 session SNA-PRM-371
 - PU 2.1 SNA-PRM-360
 - PU 5 SNA-PRM-360
 - TPF APPL (PLU) and remote APPL (SLU) SNA-PRM-363
- session ended notification SNA-PRM-216
- session ended notification
 - starting SNA-PRM-217
- session identifier (SID)
 - converting OPR-GDE-943
 - ZNCVT command OPR-GDE-943
- Session Identifiers - SID SNA-PRM-237
- session level security and TPF/APPC AR-USG-19
- session limit
 - change MIG-GD1-75
 - initialize MIG-GD1-75

- session limit (*continued*)
 - reset MIG-GD1-75
- Session Management Request Services
 - session resynchronization SNA-PRM-213, SNA-PRM-214
 - session termination SNA-PRM-213, SNA-PRM-215
 - starting SNA-PRM-213
- session manager, TPF/APPC SNA-PRM-59
- session resynchronization SNA-PRM-213
- session resynchronization
 - requesting SNA-PRM-214
- session started notification SNA-PRM-216
- session started notification
 - starting SNA-PRM-216
- Session Status Awareness Services
 - activating SNA-PRM-215
 - CTCP SNA-PRM-327
 - session ended notification SNA-PRM-215, SNA-PRM-217
 - session started notification SNA-PRM-215, SNA-PRM-216
- session termination SNA-PRM-99, SNA-PRM-213
- session termination
 - requesting SNA-PRM-215
- sessions
 - APPL-APPL sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - CP-CP sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - FMMR-FMMR sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - LEN sessions
 - maximum number OPR-GDE-979
 - LU-LU sessions
 - ending OPR-GDE-969
 - starting OPR-GDE-964
 - ZNETW ACT command OPR-GDE-964
 - ZNETW INACT command OPR-GDE-969
 - ZNKEY command OPR-GDE-979
- Set and Test Lethal Utility Switch macro SYS-MAC-464
- set and test sequence numbers (SNA command) SNA-PRM-23
- Set C Function Trace Information for an ECB macro SYS-MAC-431
- set collection CON-STR-163, DBS-REF-136
- Set Condition Code in Current PSW macro GEN-MAC-59
- set dump creation
 - TPF collection support OPR-GDE-1102
 - ZOODB SET command OPR-GDE-1102
- set entry maximum existence time CLS-UGR-312
- set entry maximum existence time macro GEN-MAC-301
- SET environment variables GEN-MAC-61
- SET macro
 - description of SPM-122
 - example of SPM-123
- Set Maximum Times to Avoid Application Timeout for an ECB macro SYS-MAC-428
- set method trace table
 - TPF collection support OPR-GDE-1102
 - ZOODB SET command OPR-GDE-1102
- set object attributes CLS-UGR-372
- set options associated with a socket
 - socket API function, setsockopt CLAWGR-216
- set recoup run-time options
 - ZRECP Profile command OPR-GDE-1183
- set signal mask and wait for a signal CLS-UGR-502
- set stack pointer and save link SYS-MAC-448
- set subsystem mode CCW SYS-MAC-392
- Set Supervisor State (Monitor Mode) macro SYS-MAC-348
- Set Supervisor State (Monitor Mode) with PSW Return macro SYS-MAC-61
- set system mask (SSM)
 - changes MIG-GD1-229
 - dynamic address translation (DAT) facility MIG-GD1-231
 - instruction MIG-GD1-231
 - program event recording (PER) facility MIG-GD1-231
- set system mask instruction (SSM) CON-STR-36, CON-STR-55
- Set System Mask macro SYS-MAC-459
- set the cipher list for use by SSL sessions
 - SSL API function, SSL_CTX_set_cipher_list CLAWGR-289
- set the ciphers for use by an SSL session
 - SSL API function, SSL_set_cipher_list CLAWGR-321
- set the effective group ID CLS-UGR-462
- set the effective user ID CLS-UGR-466
- set the group ID CLS-UGR-468
- set the real user ID CLS-UGR-472
- SETCACHE, cache DBS-REF-49
- SETOC macro SYS-MAC-428
- SETOC macro
 - relationship to C function trace PDV-PRM-152
- sets up SSL session information when reusing an SSL session
 - SSL API function, SSL_set_session CLAWGR-326
- SETTC macro SYS-MAC-431
- SETTC macro
 - altering size of a C function trace user area PDV-PRM-135
 - altering size of the C function trace table PDV-PRM-135
 - controlling traces for C function trace PDV-PRM-135, PDV-PRM-152
 - disable C program tracing PDV-PRM-135
 - enable C program tracing PDV-PRM-135
- setting trace options for C function trace
 - using the ZSTRC command PDV-PRM-134
- setting
 - access mode for a collection CLS-UGR-1101
 - current position, TPFxd_setPosition CLS-UGR-1380
 - cursor to use a specific path CLS-UGR-1180
 - file access and modification times CLS-UGR-676
 - file mode creation mask CLS-UGR-659

setting *(continued)*

- method trace on or off CLS-UGR-1337
- read-only attribute of the collection CLS-UGR-1105
- RPC options CLS-UGR-626
- size of a collection CLS-UGR-1109
- size of BLOB CLS-UGR-1107
- text dump on or off CLS-UGR-1335
- user class ID of the collection CLS-UGR-1354

setup for external device support CLS-UGR-1357

severe error messages ACF-GDE-31

severity code PSM-GDE-6

SFD

- alpha pointers description PDV-PRM-54
- description of PDV-PRM-53

SFDT

- description of PDV-PRM-1, PDV-PRM-53
- system test compiler PDV-PRM-53

SFT

- alpha pointers description PDV-PRM-55
- file address logging PDV-PRM-53
- processing overview PDV-PRM-56
- trace period PDV-PRM-53

shadow records, TPFCS DBS-REF-167

shadowing support CON-STR-166, DBS-REF-144

shared DASD

- CF record lock support CON-STR-32
- locking CON-STR-32

shared data

- CPU affinity CON-STR-47

shared memory control CLS-UGR-478

shared memory functions

- shmat CLS-UGR-476
- shmctl CLS-UGR-478
- shmdt CLS-UGR-481
- shmget CLS-UGR-483

shared PR/SM

- API changes MIG-GD2-110
- architecture MIG-GD2-106
- C/C++ language MIG-GD2-106
- CINFC tags MIG-GD2-107
- CONKC tags MIG-GD2-107
- copy members MIG-GD2-107
- database changes MIG-GD2-111
- feature changes MIG-GD2-111
- fixed file records MIG-GD2-108
- functional changes MIG-GD2-109
- functional overview MIG-GD2-106
- host system changes MIG-GD2-110
- installation validation MIG-GD2-111
- interfaces MIG-GD2-106
- loading process MIG-GD2-110
- logical CPUs MIG-GD2-109
- macros MIG-GD2-108
- migration scenarios MIG-GD2-111
- online system load MIG-GD2-110
- operating environment requirements MIG-GD2-106
- operational changes MIG-GD2-109
- overview MIG-GD2-17, MIG-GD2-106
- partition support MIG-GD2-17
- performance changes MIG-GD2-109
- planning information MIG-GD2-106

shared PR/SM *(continued)*

- prerequisite APARs MIG-GD2-106
- processor run time MIG-GD2-109
- processor weights MIG-GD2-110
- publication changes MIG-GD2-110
- segments MIG-GD2-109
- SIP changes MIG-GD2-110
- storage changes MIG-GD2-110
- storage considerations MIG-GD2-110
- system equates MIG-GD2-109
- system generation changes MIG-GD2-110
- tuning changes MIG-GD2-109
- user exits MIG-GD2-109
- wait completion MIG-GD2-109

shared program

- location of demand counter MIG-GD1-219

shared programs

- define for TPF Advanced Peer-to-Peer Networking (TPF/APPN) MIG-GD2-160

shared record CON-STR-132

shared record

- example of subsystem user (SSU) CON-STR-132
- I-stream engine CON-STR-132
- processor CON-STR-132
- subsystem user (SSU) CON-STR-132

shared resources in loosely coupled system MSP-PRM-34

shared SSL session support

- API changes MIG-GD2-1080
- architecture MIG-GD2-1070
- C/C++ language MIG-GD2-1071
- CINFC tags MIG-GD2-1073
- commands MIG-GD2-1078
- CONKC tags MIG-GD2-1073
- copy members MIG-GD2-1073
- database changes MIG-GD2-1081
- feature changes MIG-GD2-1081
- fixed file records MIG-GD2-1074
- functional changes MIG-GD2-1078
- functional overview MIG-GD2-1069
- host system changes MIG-GD2-1080
- installation validation MIG-GD2-1081
- interfaces MIG-GD2-1071
- loading process MIG-GD2-1079
- macros MIG-GD2-1074
- migration scenarios MIG-GD2-1081
- offline messages MIG-GD2-1078
- online messages MIG-GD2-1078
- online system load MIG-GD2-1079
- operating environment requirements MIG-GD2-1071
- operational changes MIG-GD2-1078
- overview MIG-GD2-17, MIG-GD2-1069
- performance changes MIG-GD2-1079
- planning information MIG-GD2-1071
- prerequisite APARs MIG-GD2-1069
- publication changes MIG-GD2-1080
- segments MIG-GD2-1076
- SIP changes MIG-GD2-1079
- SSLPROC parameter ACF-GDE-21
- SSLTHRD parameter ACF-GDE-21
- storage changes MIG-GD2-1079

- shared SSL session support *(continued)*
 - storage considerations MIG-GD2-1079
 - system equates MIG-GD2-1078
 - system errors MIG-GD2-1078
 - system generation changes MIG-GD2-1079
 - tuning changes MIG-GD2-1079
 - user exits MIG-GD2-1078
- shared storage
 - between messages GIM-23
- sharing sockets CLAWGR-79
- sharing storage GEN-MAC-246
- shift SS/SSU IDs SYS-MAC-337
- short request timer
 - description of SNA-PRM-144
 - smoothed round trip time (SRTT) SNA-PRM-144
- short term pools AR-USG-14, AR-USG-30
- short-term pool record CON-STR-103
- short-term pool recycling CON-STR-128, CON-STR-129
- short-term pool
 - recycling CON-STR-128, CON-STR-129
 - return address CON-STR-128
- short-term records APP-GDE-255
- shut down a socket
 - socket API functions, close CLAWGR-155
- shut down all or part of a duplex connection
 - socket API function, shutdown CLAWGR-220
- shut down data flow for an SSL session
 - SSL API function, SSL_shutdown CLAWGR-329
- shutdown SPM-PRM-28
- shutdown conditions SPM-PRM-15, SPM-PRM-16
- shutdown level
 - changes MIG-GD1-229, MIG-GD1-251
 - overview MIG-GD1-312
 - set MIG-GD1-251
 - set CPU loops MIG-GD1-216
 - set for communications MIG-GD1-216
 - set for non-SNA communication MIG-GD1-258
- shutdown levels
 - changing OPR-GDE-1332
 - displaying OPR-GDE-1332
 - ZSYSL command OPR-GDE-1332
- SI0GT macro INS-PRM-402
- SICFC macro SYS-MAC-435
- SID - session identifier SNA-PRM-237
- side information table SNA-PRM-62, SNA-PRM-71, SNA-PRM-83
- side information table function
 - ZNSID command OPR-GDE-1046
- side information table
 - additions
 - loading OPR-GDE-1046
 - changes
 - loading OPR-GDE-1046
 - entries
 - adding OPR-GDE-1046
 - changing OPR-GDE-1046
 - deleting OPR-GDE-1046
 - displaying OPR-GDE-1046
 - removing OPR-GDE-1046
- side information table *(continued)*
 - generating
 - creating the input file SNA-PRM-85
 - loading the table to TPF SNA-PRM-96
 - output from CHQI SNA-PRM-93
 - running CHQI SNA-PRM-92
 - initializing OPR-GDE-1046
 - ZNSID command OPR-GDE-1046
- sig argument in signal library function CLS-UGR-495
- SIGCHLD signal APP-GDE-170
- SIGNAL SNA-PRM-281
- signal handler APP-GDE-169
- signal
 - handler CLS-UGR-495
 - sending OPR-GDE-485
 - ZFILE kill command OPR-GDE-485
- signals
 - general discussion APP-GDE-169
 - SIGCHLD signal APP-GDE-170
 - signal handler APP-GDE-169
 - SIGUSR1 APP-GDE-182
- SIGP services interface SYS-MAC-19
- SIGT (system interprocessing global table) SYS-GEN-39
- SIGT (system interprocessor global table) INS-PRM-244
- SIGUSR1 signal APP-GDE-182
- Simple Mail Transfer Protocol (SMTP) server
 - checking status of OPR-GDE-714
 - starting OPR-GDE-714
 - stopping OPR-GDE-714
- Simple Network Management Protocol (SNMP) agent support, overview CLAWGR-85
- Simple Network Management Protocol (SNMP) agent support
 - API changes MIG-GD2-1092
 - architecture MIG-GD2-1083
 - C/C++ language MIG-GD2-1084
 - CINFC tags MIG-GD2-1086
 - commands MIG-GD2-1090
 - CONKC tags MIG-GD2-1086
 - copy members MIG-GD2-1086
 - database changes MIG-GD2-1092
 - feature changes MIG-GD2-1092
 - fixed file records MIG-GD2-1087
 - functional changes MIG-GD2-1090
 - functional overview MIG-GD2-1083
 - hardware MIG-GD2-1084
 - host system changes MIG-GD2-1092
 - interfaces MIG-GD2-1084
 - loading process MIG-GD2-1091
 - macros MIG-GD2-1087
 - migration scenarios MIG-GD2-1092
 - offline messages MIG-GD2-1090
 - online messages MIG-GD2-1090
 - online system load MIG-GD2-1091
 - operating environment requirements MIG-GD2-1084
 - operational changes MIG-GD2-1090
 - overview MIG-GD2-18, MIG-GD2-1083
 - performance changes MIG-GD2-1091
 - planning information MIG-GD2-1084

- Simple Network Management Protocol (SNMP) agent support *(continued)*
 - prerequisite APARs MIG-GD2-1083
 - publication changes MIG-GD2-1091
 - segments MIG-GD2-1089
 - SIP changes MIG-GD2-1091
 - software (programming requirements) MIG-GD2-1084
 - storage changes MIG-GD2-1091
 - storage considerations MIG-GD2-1091
 - system equates MIG-GD2-1089
 - system errors MIG-GD2-1090
 - system generation changes MIG-GD2-1091
 - tuning changes MIG-GD2-1091
 - user exits MIG-GD2-1089
- Simple Network Management Protocol (SNMP) manager INS-PRM-203
- Simple Network Management Protocol (SNMP) traps GEN-MAC-283
- Simple Network Management Protocol (SNMP) display MIB values OPR-GDE-1263
 - refresh configuration file OPR-GDE-1263
 - ZSNMP command OPR-GDE-1263
- simultaneous capture
 - changing OPR-GDE-410
 - ZFCAP ALTER command OPR-GDE-410
- simultaneous message processing SNA-PRM-250
- simultaneous processes CON-STR-22, CON-STR-54
- simultaneous restore
 - changing OPR-GDE-565
 - ZFRST ALTER command OPR-GDE-565
- single file record find GEN-MAC-214
- single line query method for using TPFAR AR-USG-8
 - single line query method for using TPFAR illustration of AR-USG-8
- single record filing GEN-MAC-203
- single records APP-GDE-255
- single sessions
 - contention-winner polarities initializing OPR-GDE-936
 - mode name displaying OPR-GDE-980
 - session limit initializing OPR-GDE-936 resetting OPR-GDE-940
 - ZNCNS INITIALIZE command OPR-GDE-936
 - ZNCNS RESET command OPR-GDE-940
 - ZNKEY command OPR-GDE-980
- single-domain networks SNA-PRM-12
- Single-Segment Messages SNA-PRM-247
- SINGMODE SNA-PRM-62
- SINGMODE parameter
 - SNAKEY macro ACF-GDE-18
- SIOSC macro SYS-MAC-436
- SIP CONFIG macro changes for TPFAR AR-USG-11
- SIP CONFIG macro changes for TPFAR
 - TPFAR option of AR-USG-11
- SIP macros GEN-MAC-3
- SIP stage 1 AR-USG-12
- SIP stage I macro
 - SSDEF MIG-GD1-220
- SIP stage I
 - FCTBG offline program MIG-GD1-208
- SIP values
 - altering and displaying MSP-PRM-29
- SIPCC macro MSP-PRM-36, SYS-MAC-437
- SIPCC macro
 - data collection SYS-MAC-24
- SIZ record
 - record length PDV-PRM-31
- SIZBC macro GEN-MAC-362
- size and performance SYS-GEN-38
- size limit for TPF programs APP-GDE-142
- size of CIMR components SYS-GEN-330
- size of program APP-GDE-266
- size of storage blocks
 - get SYS-MAC-376
- size
 - get block SYS-MAC-500
 - obtain logical GEN-MAC-362
- SLC (synchronous link control) SYS-GEN-8
- SLC Channel Keypoints Setup macro SYS-MAC-189
- SLC Link Alarm macro GEN-MAC-285
- SLC link trace package NSC-PRM-33
- SLC macro inputs SYS-GEN-129
- SLC message SYS-MAC-422
- SLC Queue Handling macro SYS-MAC-443
- SLC support SYS-GEN-123
- SLC transmission SYS-MAC-388
- SLCQC macro SYS-MAC-443
- SLMTC macro SYS-MAC-446
- SLMTC macro
 - data collection SYS-MAC-24
- SLNKC macro SYS-MAC-448
- slowdown, NCP SNA-PRM-277
- slowdown
 - adjacent link station (ALS) time interval OPR-GDE-980
 - channel-to-channel (CTC) SNA-PRM-277
 - ZNKEY command OPR-GDE-980
- SLOWTIME parameter
 - SNAKEY macro ACF-GDE-18
- SLST SYS-MAC-383
- SLST entry
 - finding SYS-MAC-386
- SLU (secondary logical unit) SNA-PRM-3
- SLU threads
 - and TPF/APPC SNA-PRM-61
- SLU
 - SLU THREAD SNA-PRM-19
- small file storage address GEN-MAC-258
- SMIT CCSIDs AR-USG-16
- smoothed round trip time (SRTT) SNA-PRM-144
- SMTP configuration file
 - /etc/postfix/main.cf CLAWGR-259
 - creating CLAWGR-259
 - general discussion CLAWGR-259
 - parameters CLAWGR-259
- SMTP server
 - general discussion CLAWGR-253
- SNA 3270 Application Considerations SNA-PRM-26
- SNA command flow SNA-PRM-345

- SNA command
 - timeout value
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
 - ZNKEY command OPR-GDE-980
- SNA commands SNA-PRM-22
- SNA communication SYS-GEN-8
- SNA communication
 - 3-byte resource identifier (RID) MIG-GD1-251
 - change network addressable units (NAUs) MIG-GD1-251
 - changes
 - migration MIG-GD1-251
 - system generation MIG-GD1-251
 - TPF/APPC MIG-GD1-251
 - consolidate application program names MIG-GD1-251
 - convert network node names MIG-GD1-251
 - define SNA resources MIG-GD1-226, MIG-GD1-251, MIG-GD1-252
 - description MIG-GD1-226, MIG-GD1-251
 - dynamic LU support MIG-GD1-252
 - generate SNA tables MIG-GD1-251, MIG-GD1-252
 - generate the SNA tables MIG-GD1-251
 - logical unit (LU)
 - Logon Manager MIG-GD1-251
 - naming conventions MIG-GD1-226
 - logon manager MIG-GD1-251
 - modify SNA network definitions MIG-GD1-251, MIG-GD1-254
 - network definitions MIG-GD1-251
 - offline ACF/SNA table generation (OSTG) MIG-GD1-226
 - operating environment MIG-GD1-197, MIG-GD2-47
 - overview MIG-GD1-18
 - presentation services (PS) MIG-GD1-251
 - resource definitions MIG-GD1-251
 - secondary logical unit (SLU) MIG-GD1-251
 - set shutdown levels MIG-GD1-251
 - trace facilities MIG-GD1-256
- SNA communications keypoint (CTK2)
 - changing OPR-GDE-973
 - displaying OPR-GDE-973
 - ZNKEY command OPR-GDE-973
- SNA communications keypoint
 - keypoint record 2 (CTK2) MSP-PRM-13, OPR-GDE-14, SYS-GEN-75
- SNA communications
 - enhancements GIM-26
 - NCB records SNA-PRM-183
 - RVT SNA-PRM-179
- SNA configuration data
 - OSTG output data sets ACF-GDE-31
- SNA control block
 - create through a dynamic load MIG-GD1-211
 - initialize through a dynamic load MIG-GD1-211
- SNA control blocks
 - keypointing
 - time interval OPR-GDE-980
 - ZNKEY command OPR-GDE-980
- SNA data loader
 - dynamic load MIG-GD1-211
 - fresh load MIG-GD1-211
- SNA data transfer
 - channel-to-channel (CTC) characteristics SNA-PRM-11
 - NCP characteristics SNA-PRM-11
- SNA dynamic load function
 - description SNA-PRM-195
 - displaying status information SNA-PRM-198
 - inactive processors SNA-PRM-196
 - procedure SNA-PRM-196
 - restrictions SNA-PRM-196
 - ZNOPL LOAD command SNA-PRM-195, SNA-PRM-196
 - ZNOPL MERGE command SNA-PRM-195, SNA-PRM-196
 - ZNOPL UPDATE command SNA-PRM-195, SNA-PRM-196
- SNA dynamic load
 - description of OPR-GDE-1002
 - performing OPR-GDE-1002
 - status of
 - displaying OPR-GDE-1007
 - ZNOPL LOAD command OPR-GDE-1002
 - ZNOPL STATUS command OPR-GDE-1007
- SNA fallback function
 - description SNA-PRM-196
 - displaying status information SNA-PRM-198
 - using dynamic load function SNA-PRM-197
 - using fresh load function SNA-PRM-197
 - ZNOPL FALLBACK command SNA-PRM-197
 - ZNOPL MERGE command SNA-PRM-197
- SNA fresh load function
 - considerations SNA-PRM-194
 - description SNA-PRM-194
 - displaying status information SNA-PRM-198
 - forcing SNA-PRM-195
 - procedure SNA-PRM-194
 - ZNOPL BUILD command SNA-PRM-195
 - ZNOPL LOAD command SNA-PRM-195
- SNA fresh load
 - alternate RRT definitions
 - forcing OPR-GDE-1000
 - current processor
 - forcing OPR-GDE-999
 - description of OPR-GDE-1002
 - performing OPR-GDE-1002
 - status of
 - displaying OPR-GDE-1007
 - ZNOPL BUILD command OPR-GDE-999
 - ZNOPL FALLBACK command OPR-GDE-1000
 - ZNOPL LOAD command OPR-GDE-1002
 - ZNOPL STATUS command OPR-GDE-1007
- SNA I/O trace facility GIM-26, GIM-27, SNA-PRM-275
- SNA I/O trace facility
 - CTC devices MIG-GD1-18
 - debug MIG-GD1-293, MIG-GD1-303
 - overview MIG-GD1-10, MIG-GD1-18, MIG-GD1-293, MIG-GD1-295, MIG-GD1-303
 - problem determination MIG-GD1-293, MIG-GD1-303

SNA I/O trace facility (*continued*)

- SNA communication trace facility MIG-GD1-303
- symbolic device address table (SDAT) MIG-GD1-304
- turn on and off MIG-GD1-304
- XID7 processing MIG-GD1-18

SNA I/O trace indicator bit

- modify MIG-GD1-304
- symbolic device address table (SDAT) MIG-GD1-304

SNA I/O trace table

- content MIG-GD1-18, MIG-GD1-303
- display content online MIG-GD1-304
- modifications to make MIG-GD1-18
- SNA system error dumps MIG-GD1-18
- system error dump MIG-GD1-304

SNA I/O

- writing SYS-MAC-453

SNA input recovery timeout program

- activation frequency
 - changing OPR-GDE-979
 - displaying OPR-GDE-979
- ZNKEY command OPR-GDE-979

SNA keypoint (CTK2)

- create for TPF Advanced Peer-to-Peer Networking (TPF/APPN) MIG-GD2-160

SNA links

- displaying OPR-GDE-985
- ZNMON command OPR-GDE-985

SNA logical unit SPM-PRM-3

SNA messages APP-GDE-46

SNA NCP from PIU data SYS-MAC-453

SNA network IDs ACF-GDE-33

SNA network Interconnection (SNI) Considerations

- SNA-PRM-233

SNA network topology

- displaying OPR-GDE-921
- ZNAPN command OPR-GDE-921

SNA network

- data host CON-STR-186
- defining ACF-GDE-1
- interface CON-STR-186
- low entry network (LEN) interface (T2.1)
 - CON-STR-186
- SNAKEY macro
 - network parameters ACF-GDE-14
 - subarea interface (T5) CON-STR-186

SNA networks CON-STR-172

SNA online merge function SNA-PRM-196

SNA output queue

- changing OPR-GDE-981
- depth
 - displaying OPR-GDE-980
- displaying OPR-GDE-981
- ZNKEY command OPR-GDE-980, OPR-GDE-981

SNA parameter

- ANTNME statement ACF-GDE-36

SNA polling interval

- changing OPR-GDE-980
- displaying OPR-GDE-980
- ZNKEY command OPR-GDE-980

SNA polling intervals ACF-GDE-18

SNA printer path

- changing
 - alternate node to prime node OPR-GDE-916
 - prime node to alternate node OPR-GDE-920
- ZNACT command OPR-GDE-916
- ZNALT command OPR-GDE-920

SNA protocols SNA-PRM-26

SNA resource address

- convert MIG-GD1-76

SNA resource definition

- dynamic LU support MIG-GD2-18
- overview MIG-GD2-18
- resource names MIG-GD2-18
- resources
 - ALS MIG-GD1-254
 - CDRM MIG-GD1-254
 - CTC MIG-GD1-254
 - LU MIG-GD1-252
 - NCP MIG-GD1-254

SNA resource names ACF-GDE-33

SNA resources OPR-GDE-917

SNA resources

- active, list of
 - displaying OPR-GDE-985
- ALS resources MIG-GD1-252
- CDRM resources MIG-GD1-252
- changing definitions
 - ZNDYN CHANGE command SNA-PRM-199
- commands MIG-GD1-252
- convert resource address MIG-GD1-76
- CTC resources MIG-GD1-252
- define MIG-GD1-251, MIG-GD1-252
- define using
 - dynamic loads MIG-GD1-211
 - fresh loads MIG-GD1-211
- defining OPR-GDE-953
- defining
 - ALS resources SNA-PRM-193
 - CDRM resources SNA-PRM-193
 - CTC resources SNA-PRM-193
 - local resources SNA-PRM-193
 - NCP resources SNA-PRM-193
 - OSTG program SNA-PRM-193
 - remote LU resources SNA-PRM-193
 - shared printers SNA-PRM-193
 - SSCP resources SNA-PRM-193
 - TPF applications SNA-PRM-193
 - ZNDYN ADD command SNA-PRM-198
- dynamic load function SNA-PRM-195
- dynamic LU support MIG-GD1-252, SNA-PRM-199
- fallback function SNA-PRM-196
- fresh load function SNA-PRM-194
- list of
 - displaying OPR-GDE-968
- local applications MIG-GD1-252
- LU resources MIG-GD1-252
- maximum number
 - displaying OPR-GDE-978
- NCP resources MIG-GD1-252
- network addresses
 - converting OPR-GDE-943

SNA resources *(continued)*

- network command status table
 - displaying OPR-GDE-997
- non-LU resources
 - maximum number OPR-GDE-979
- polling
 - SNA polling interval OPR-GDE-980
 - starting OPR-GDE-1019
 - stopping OPR-GDE-1020
- redefining OPR-GDE-956
- resource ID
 - displaying OPR-GDE-958
- RNHET address
 - displaying OPR-GDE-958
- RNHPT address
 - displaying OPR-GDE-958
- RVT address
 - displaying OPR-GDE-958
- RVT termination list
 - displaying OPR-GDE-958
 - recycle time OPR-GDE-974
- SNA shutdown level
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
- statistics
 - displaying OPR-GDE-985
- status
 - displaying OPR-GDE-917, OPR-GDE-968
- tracing OPR-GDE-1052, SNA-PRM-291
- ZNALS command OPR-GDE-917
- ZNCVT command OPR-GDE-943
- ZNDYN ADD command OPR-GDE-953
- ZNDYN CHANGE command OPR-GDE-956
- ZNDYN DISPLAY command OPR-GDE-958
- ZNETW DISPLAY command OPR-GDE-968
- ZNKEY command OPR-GDE-974, OPR-GDE-978, OPR-GDE-979, OPR-GDE-980
- ZNMON command OPR-GDE-985
- ZNNCS command OPR-GDE-997
- ZNPOL START command OPR-GDE-1019
- ZNPOL STOP command OPR-GDE-1020
- ZNTRP command OPR-GDE-1052
- SNA RID conversions CLS-UGR-435
- SNA segment
 - changes in residency MIG-GD1-224
- SNA shutdown level
 - changing OPR-GDE-980
 - displaying OPR-GDE-980
 - ZNKEY command OPR-GDE-980
- SNA structures
 - #CCBRU records ACF-GDE-24
 - #IPRTE records ACF-GDE-25
 - #NCBRI records ACF-GDE-23
 - #RT1RI records ACF-GDE-25
 - #RT2RI records ACF-GDE-25
 - #RV1RU records ACF-GDE-24
 - #RV2RU records ACF-GDE-24
 - #SC1RU records ACF-GDE-25
 - #SC2RU records ACF-GDE-25
 - #SPARI records ACF-GDE-23
 - #SRTRU records ACF-GDE-24
- SNA table generation SYS-GEN-139
- SNA table generation
 - OSTG program SYS-GEN-139
 - SNAKEY macro SYS-GEN-139
- SNA tables
 - adjacent link station (ALS) MIG-GD1-252
 - changes MIG-GD1-212, MIG-GD1-218, MIG-GD1-251
 - generate MIG-GD1-251, MIG-GD1-252
 - network address table (NAT) MIG-GD1-252
 - process selection vector (PSV) name table MIG-GD1-252
 - reserve storage MIG-GD1-230
 - resource vector table (RVT) MIG-GD1-252
 - size MIG-GD1-251
 - subarea address table (SAT) MIG-GD1-252
 - system recovery table (SRT) MIG-GD1-252
- SNA
 - data loader GIM-26
 - data records SNA-PRM-45
 - fresh and dynamic loads GIM-26
- SNAKEY SNA-PRM-61
- SNAKEY macro
 - address of ACF-GDE-3
 - and CTC read buffers AR-USG-98
 - assembling ACF-GDE-3
 - CLAWADP parameter ACF-GDE-20
 - CLAWFD parameter ACF-GDE-20
 - CLAWIP parameter ACF-GDE-20
 - considerations ACF-GDE-21
 - CTCANS parameter ACF-GDE-14
 - CTCRBFR parameter ACF-GDE-14, ACF-GDE-21
 - CTCTGANY parameter ACF-GDE-14
 - CTCWBFERS parameter ACF-GDE-14, ACF-GDE-21
 - defining ACF-GDE-6
 - description of ACF-GDE-4, ACF-GDE-6
 - DYNTO parameter ACF-GDE-14
 - example ACF-GDE-22
 - FMHDR parameter ACF-GDE-14
 - generating ACF-GDE-4
 - HARDREC parameter ACF-GDE-15
 - HPFMRR parameter ACF-GDE-15
 - HPRALIVE parameter ACF-GDE-15
 - HPRMSTIZ parameter ACF-GDE-11
 - HPRPST parameter ACF-GDE-15
 - ILWPC parameter ACF-GDE-15
 - ILWPE parameter ACF-GDE-15
 - ILWPF parameter ACF-GDE-16
 - ILWPI parameter ACF-GDE-16
 - ILWPS parameter ACF-GDE-16
 - INREC parameter ACF-GDE-16
 - IPMSTIZ parameter ACF-GDE-20
 - IPRBUFFS parameter ACF-GDE-20
 - IPRBUFSZ parameter ACF-GDE-20
 - IPTOS parameter ACF-GDE-20
 - IPTRCNUM parameter ACF-GDE-20
 - IPTRCSIZ parameter ACF-GDE-20
 - keypoint organization ACF-GDE-3
 - LENNETID parameter ACF-GDE-16
 - LMSCTI parameter ACF-GDE-17
 - LUBLKT parameter ACF-GDE-17

SNAKEY macro (continued)

- MAXALS parameter ACF-GDE-11
- MAXASCU parameter ACF-GDE-19
- MAXBFRU parameter ACF-GDE-17
- MAXCCB parameter ACF-GDE-11, AR-USG-15
- MAXCDRSC parameter ACF-GDE-11
- MAXCTC parameter ACF-GDE-11, ACF-GDE-21
- MAXHCT parameter ACF-GDE-10
- MAXHPRSA parameter ACF-GDE-11
- MAXIPCCW parameter ACF-GDE-20
- MAXMATIP parameter ACF-GDE-19
- MAXOSA parameter ACF-GDE-20
- MAXPCID parameter ACF-GDE-12
- MAXPRIM parameter ACF-GDE-12
- MAXRTE parameter ACF-GDE-20
- MAXRTPCB parameter ACF-GDE-12
- MAXRVT parameter ACF-GDE-12
- MAXSCB parameter ACF-GDE-13, AR-USG-15
- MAXSDD parameter ACF-GDE-10
- MAXSID parameter ACF-GDE-13
- MAXSMTB parameter ACF-GDE-17
- MAXSNF parameter ACF-GDE-13
- MAXSOCK parameter ACF-GDE-20, AR-USG-15
- MAXSOCK parameter of SNAKEY macro AR-USG-15
- MAXSRT parameter ACF-GDE-13
- MAXTPI parameter ACF-GDE-13, AR-USG-14
- MAXTPI parameter of SNAKEY macro AR-USG-14
- MQITRC parameter ACF-GDE-13
- MSAT1 ACF-GDE-3
- MSAT2 ACF-GDE-3
- MSAT3 ACF-GDE-3
- NBLKLU parameter ACF-GDE-17
- NETID parameter ACF-GDE-17, AR-USG-15
- NUMALS parameter ACF-GDE-14
- OLDAPPL parameter ACF-GDE-17
- OSABUFF parameter ACF-GDE-20
- PARACOS parameter ACF-GDE-17
- parameters
 - default values ACF-GDE-6
 - description of ACF-GDE-10
 - example ACF-GDE-22
 - maximum values ACF-GDE-6
 - minimum values ACF-GDE-6
 - MSAT parameters ACF-GDE-11
 - notes ACF-GDE-9
 - TPF network parameters ACF-GDE-14
 - TPFAR parameters ACF-GDE-10
- PIUTAPEQ parameter ACF-GDE-17
- RECIT parameter ACF-GDE-17
- RECOP parameter ACF-GDE-18
- RECOT parameter ACF-GDE-18
- RSPTO parameter ACF-GDE-18
- RTPRSYNC parameter ACF-GDE-18
- RVTCTRL parameter ACF-GDE-18
- SDAT ACF-GDE-4
- SINGMODE parameter ACF-GDE-18
- SLOWTIME parameter ACF-GDE-18
- SNAKEY macro AR-USG-13
- SNAPOLL parameter ACF-GDE-18
- SNDWN parameter ACF-GDE-18

SNAKEY macro (continued)

- SNKEY parameter ACF-GDE-18
- SNQDPT parameter ACF-GDE-19
- SNRST parameter ACF-GDE-19
- SNSESZ parameter ACF-GDE-14
- SNSETO parameter ACF-GDE-19
- SOCKSWP parameter ACF-GDE-20
- SSLPROC parameter ACF-GDE-21
- SSLTHRD parameter ACF-GDE-21
- TPALLOC parameter ACF-GDE-19
- TPRECV parameter ACF-GDE-19
- TPWAIT parameter ACF-GDE-19
- TRACSZ parameter ACF-GDE-14
- TRANA parameter ACF-GDE-19
- UNITSZ parameter ACF-GDE-19
 - updating ACF-GDE-3
- VRRTO parameter ACF-GDE-19
- SNAKEY parameters
 - CLAWADP CLAWGR-23
 - CLAWFD CLAWGR-25
 - CLAWIP CLAWGR-26
 - SOCKSWP CLAWGR-125
- SNAP dump options
 - changing OPR-GDE-84
 - displaying OPR-GDE-360
 - ZASER command OPR-GDE-84
 - ZDSER command OPR-GDE-360
- SNAPC data
 - online mini dump trace facility MIG-GD1-294
- SNAPC macro GEN-MAC-363, MSP-PRM-40
- SNAPC macro call
 - changes MIG-GD1-229, MIG-GD1-237
 - content MIG-GD1-246
- SNAPC macro
 - using instead of SERRC MSP-PRM-40
- SNAPC processing GEN-MAC-291
- SNAPOLL parameter
 - SNAKEY macro ACF-GDE-18
- snapshot dump CLS-UGR-508
- Snapshot Dump Macro GEN-MAC-363
- SNDLC macro SYS-MAC-450
- SNDWN parameter
 - SNAKEY macro ACF-GDE-18
- SNI/TPF restrictions SNA-PRM-234
- SNKEY parameter
 - SNAKEY macro ACF-GDE-18
- SNMP (Simple Network Management Protocol) traps
 - GEN-MAC-283
- SNMP agent support
 - agent description CLAWGR-85
 - component diagrams CLAWGR-86
 - configuration file CLAWGR-96
 - configuration file keywords CLAWGR-97
 - description CLAWGR-89
 - installation CLAWGR-96
 - installation of TCP/IP native stack support CLAWGR-96
 - manager description CLAWGR-85
 - message processing CLAWGR-91
 - MIB description CLAWGR-85
 - MIB variables table CLAWGR-423

- SNMP agent support *(continued)*
 - MIB-II description CLAWGR-90
 - overview CLAWGR-85
 - processing requests CLAWGR-91
 - protocol data units (PDUs) CLAWGR-87
 - routing table entries CLAWGR-99
 - server definition CLAWGR-98
 - TPF system definition CLAWGR-99
 - traps CLAWGR-93
 - user exits CLAWGR-98
 - user MIB variables CLAWGR-93
- SNMP application traps, sending CLS-UGR-608
- SNMP configuration file refresh OPR-GDE-1263
- SNMP enterprise-specific MIB retrieval INS-PRM-202
- SNMP manager validation INS-PRM-203
- SNMP traps
 - example CLAWGR-93
 - types CLAWGR-93
- SNMP variable encoding in BER format CLS-UGR-632
- SNQDPT parameter
 - SNAKEY macro ACF-GDE-19
- SNRST parameter
 - SNAKEY macro ACF-GDE-19
- SNSESZ parameter
 - SNAKEY macro ACF-GDE-14
- SNSETO parameter
 - SNAKEY macro ACF-GDE-19
- socket address, Internet CLAWGR-119
- socket API functions, using
 - access the Internet CLAWGR-137
- socket API functions
 - accept CLAWGR-138
 - activate_on_accept CLAWGR-141
 - activate_on_receipt_with_length CLAWGR-148
 - activate_on_receipt CLAWGR-144
 - bind CLAWGR-152
 - close CLAWGR-155
 - connect CLAWGR-157
 - gethostbyaddr CLAWGR-160
 - gethostbyname CLAWGR-162
 - gethostid CLAWGR-164
 - gethostname CLAWGR-166
 - getpeername CLAWGR-168
 - getservbyname CLAWGR-170
 - getservbyport CLAWGR-172
 - getsockname CLAWGR-174
 - getsockopt CLAWGR-176
 - htonl CLAWGR-180
 - htons CLAWGR-181
 - inet_addr CLAWGR-182
 - inet_ntoa CLAWGR-184
 - ioctl CLAWGR-185
 - listen CLAWGR-189
 - ntohl CLAWGR-191
 - ntohs CLAWGR-192
 - read CLAWGR-193
 - recv CLAWGR-196
 - recvfrom CLAWGR-199
 - recvmsg CLAWGR-202
 - select CLAWGR-205
 - send CLAWGR-206
- socket API functions *(continued)*
 - sendmsg CLAWGR-210
 - sendto CLAWGR-212
 - setsockopt CLAWGR-216
 - shutdown CLAWGR-220
 - sock_errno CLAWGR-222
 - socket CLAWGR-223
 - write CLAWGR-226
 - writew CLAWGR-229
- socket API support CLAWGR-122
- socket application
 - File Transfer Protocol (FTP) server CON-STR-189
 - HTTP server CON-STR-189
 - Internet daemon CON-STR-188
 - RPC server CON-STR-190
 - syslog daemon CON-STR-189
 - TFTP server CON-STR-189
- socket applications
 - activating OPR-GDE-207
- socket block table structure CLAWGR-51
- socket calls
 - using CLAWGR-132
- socket concepts used in data transmission CLAWGR-120
- socket nonblocking mode
 - do not wait for data CLAWGR-121
- socket options supported, TCP/IP native stack support CLAWGR-80
- socket sweeper
 - close inactive sockets CLAWGR-125
- socket thread control blocks
 - chained CLAWGR-124
 - full-duplex socket support CLAWGR-124
- socket user exits CLAWGR-122
- socket/CLAW interfaces, TCP/IP support components CLAWGR-16
- socket/CLAW interfaces
 - inbound message CLAWGR-18
 - inbound message flow through CLAWGR-18
 - outbound message CLAWGR-17
 - outbound message flow through CLAWGR-17
- socket
 - communication endpoint CLAWGR-119
- sockets and ECBs CLAWGR-119
- sockets
 - closing inactive CLAWGR-125
 - types of CLAWGR-119
- SOCKSWP parameter
 - SNAKEY macro ACF-GDE-20
- SOCKSWP value, choosing CLAWGR-125
- soft errors MSP-PRM-39
- soft IPL SYS-GEN-20
- softcopy publications feature
 - overview MIG-GD1-8
- software GIM-16
- software clocks OPR-GDE-8, SYS-GEN-31
- software IPL MSP-PRM-1
- software requirements SYS-GEN-173
- software requirements
 - prerequisites for the TPF 4.1 system MIG-GD1-196, MIG-GD2-46

software
 requirements GIM-31, GIM-32

SONIC macro GEN-MAC-366

sorted bag collection CON-STR-164, DBS-REF-137

sorted set collection CON-STR-164, DBS-REF-137

SORTIN data set
 description of ACF-GDE-32
 example ACF-GDE-57

SORTOUT data set
 description of ACF-GDE-32
 example ACF-GDE-57

source code definition of objects, TPFCS DBS-REF-161

source file names, naming conventions PSM-GDE-15

SOUTC macro SNA-PRM-250, SYS-MAC-453

SOUTC macro service routine SNA-PRM-48

SPA for a dynamic LU
 allocating SNA-PRM-190
 retrieving SNA-PRM-190

spare program slots
 allocating INS-PRM-405

spare records SYS-GEN-290

spare RVT entries
 description of SNA-PRM-180
 RVT available list SNA-PRM-181

special action codes PSM-GDE-3

special coding considerations APP-GDE-246

special file, create a CLS-UGR-331

special file, inheritance CLS-UGR-1413

special files CON-STR-157

Special Tape Interface macro SYS-MAC-495

specified PID of the collection, creating and returning
 CLS-UGR-927

specify allocator input data set name and members
 SYS-GEN-261

specify capture and restore variables SYS-GEN-302

specify GENSIP options for SIP Stage II SYS-GEN-247

specify installation configuration (hardware and
 software) SYS-GEN-219

specify main storage requirements SYS-GEN-229

specify resource allocation characteristics
 SYS-GEN-286

specify shutdown and restart levels for non-SNA lines
 SYS-GEN-214

specify type and format of general file data set
 SYS-GEN-245

specifying records SYS-GEN-290

spin lock CON-STR-31, CON-STR-46, SYS-MAC-56

split access (UCCFSC) INS-PRM-81

split chain header access (UCCFHD) INS-PRM-82

SPNDC macro SYS-MAC-457

SPPBLD macro definitions SYS-GEN-181

SPPBLD macro, coding for C APP-GDE-339

SPPGML macro SYS-GEN-36

SPPGML macro definitions SYS-GEN-181

SPPGML program tables SYS-GEN-178

SPR form control buffer
 CUAG program OPR-GDE-100
 defining OPR-GDE-100
 loading OPR-GDE-100
 ZAURS FCBL command OPR-GDE-100

SPRIAT macro SYS-GEN-185

SPUFI (SQL Processor Using File Input) AR-USG-21,
 AR-USG-27, AR-USG-35, AR-USG-79

SQL (Structured Query Language) AR-USG-1

SQL (structured query language)
 definition of AR-USG-112

SQL (Structured Query Language)
 C language header files AR-USG-32
 considerations AR-USG-28
 dynamic AR-USG-30
 error handling AR-USG-32
 maximum number of cursors AR-USG-29
 protect key AR-USG-30
 registers AR-USG-30
 request unit size AR-USG-28
 supported commands for TPFAR AR-USG-101
 synchronizing updates AR-USG-31
 time field length, specifying AR-USG-28
 working storage for TPFAR blocks AR-USG-30

SQL COMMIT command AR-USG-6, AR-USG-31,
 AR-USG-32, AR-USG-79, AR-USG-81, AR-USG-86,
 AR-USG-98

SQL CONNECT command AR-USG-6, AR-USG-79

SQL CREATE INDEX command AR-USG-80

SQL CREATE TABLE command AR-USG-27,
 AR-USG-79, AR-USG-80

SQL database management system directory (SDD)
 AR-USG-14, AR-USG-15, AR-USG-17

SQL database management system directory (SDD)
 adding an entry using ZSQLD AR-USG-16
 definition of AR-USG-112

SQL FETCH command AR-USG-8, AR-USG-9,
 AR-USG-29

SQL INSERT command AR-USG-5, AR-USG-31,
 AR-USG-32, AR-USG-79, AR-USG-98

SQL OPEN command AR-USG-9

SQL Processor Using File Input (SPUFI) AR-USG-21,
 AR-USG-27, AR-USG-35, AR-USG-79

SQL SELECT INTO command AR-USG-8

SQL source programs
 host language considerations AR-USG-41
 modifying to use the same cursor AR-USG-41

SQL trace table AR-USG-13, AR-USG-16, AR-USG-98

SQL trace table entries
 displaying OPR-GDE-1315
 ZSTTD command OPR-GDE-1315

SQL trace table user exit AR-USG-98

SQL trace table
 defining the user exit AR-USG-16
 display entries MIG-GD1-82

SQL tracing AR-USG-15

SQL UPDATE command AR-USG-5, AR-USG-31

SQLCA (Structured Query Language Communications
 Area) AR-USG-28

SQLCA (Structured Query Language Communications
 Area)
 definition of AR-USG-112
 SQLCODE AR-USG-28, AR-USG-32
 SQLSTATE AR-USG-28, AR-USG-32

SQLCODE AR-USG-28, AR-USG-32

SQLCODE
 definition of AR-USG-112

SQLSTATE AR-USG-28, AR-USG-31, AR-USG-32
SQLSTATE
 definition of AR-USG-112
SRTT SNA-PRM-144
SS/SSU ID shift SYS-MAC-337
SSA
 See synchronization selection address
SSCP ACF-GDE-35
SSDEF macro INS-PRM-404, SYS-GEN-312
SSID/SSUID macro SYS-MAC-122
SSL API functions
 SSL_accept CLAWGR-274
 SSL_aor CLAWGR-275
 SSL_check_private_key CLAWGR-277
 SSL_connect CLAWGR-279
 SSL_CTX_check_private_key CLAWGR-280
 SSL_CTX_free CLAWGR-281
 SSL_CTX_load_and_set_client_CA_list
 CLAWGR-282
 SSL_CTX_load_verify_locations CLAWGR-283
 SSL_CTX_new_shared CLAWGR-287
 SSL_CTX_new CLAWGR-285
 SSL_CTX_set_cipher_list CLAWGR-289
 SSL_CTX_set_client_CA_list CLAWGR-292
 SSL_CTX_set_default_passwd_cb_userdata
 CLAWGR-293
 SSL_CTX_set_verify CLAWGR-294
 SSL_CTX_use_certificate_chain_file CLAWGR-296
 SSL_CTX_use_certificate_file CLAWGR-298
 SSL_CTX_use_PrivateKey_file CLAWGR-300
 SSL_CTX_use_RSAPrivateKey_file CLAWGR-302
 SSL_free CLAWGR-304
 SSL_get_cipher CLAWGR-305
 SSL_get_error CLAWGR-307
 SSL_get_peer_certificate CLAWGR-309
 SSL_get_session CLAWGR-310
 SSL_get_verify_result CLAWGR-311
 SSL_get_version CLAWGR-313
 SSL_library_init CLAWGR-314
 SSL_load_and_set_client_CA_list CLAWGR-315
 SSL_load_client_CA_file CLAWGR-316
 SSL_new CLAWGR-317
 SSL_pending CLAWGR-318
 SSL_read CLAWGR-319
 SSL_renegotiate CLAWGR-320
 SSL_set_cipher_list CLAWGR-321
 SSL_set_client_CA_list CLAWGR-324
 SSL_set_fd CLAWGR-325
 SSL_set_session CLAWGR-326
 SSL_set_verify CLAWGR-327
 SSL_shutdown CLAWGR-329
 SSL_use_certificate_file CLAWGR-330
 SSL_use_PrivateKey_file CLAWGR-332
 SSL_use_RSAPrivateKey_file CLAWGR-333
 SSL_write CLAWGR-334
 SSLv2_client_method CLAWGR-335
 SSLv2_server_method CLAWGR-336
 SSLv23_client_method CLAWGR-337
 SSLv23_server_method CLAWGR-338
 SSLv3_client_method CLAWGR-339
 SSLv3_server_method CLAWGR-340
SSL API functions (*continued*)
 TLSv1_client_method CLAWGR-341
 TLSv1_server_method CLAWGR-342
SSL support
 See Secure Sockets Layer (SSL) support
SSLPROC parameter
 SNAKEY macro ACF-GDE-21
SSLTHRD parameter
 SNAKEY macro ACF-GDE-21
SSMMC macro SYS-MAC-459
SSST access SYS-MAC-400
SSU (subsystem user) table INS-PRM-244
SSU ID MSP-PRM-3
SSU ID
 restore previously saved CLS-UGR-28
 save current CLS-UGR-29
SSU table (Subsystem User table) INS-PRM-307
SSU unique/common INS-PRM-252, INS-PRM-306
STA/STP 2314 GFS randomizer switch SYS-MAC-373
stack CON-STR-81
stack area use
 sample SYS-MAC-1
stack block
 description of APP-GDE-71
stack definition
 example SYS-MAC-1
stack frame function dump APP-GDE-298
stack frame
 description of APP-GDE-71
 layout of APP-GDE-223
stack overflow processing entry (ISO-C) INS-PRM-84
stack overflow processing exit (ISO-C) INS-PRM-83
stack pointer reset for calls SYS-MAC-409
stack storage CON-STR-75
stack storage
 get contiguous EVM SYS-MAC-53
stack, C language APP-GDE-71
stack
 restoring the environment CLS-UGR-313
 saving an environment CLS-UGR-470
stage I, sample SYS-GEN-351
stage II
 data sets SYS-GEN-495
 job stream SYS-GEN-329
 job summary, SIP SYS-GEN-473
 macros SYS-GEN-330
 requirements SYS-GEN-173
stage-initiated message
 adding OPR-GDE-1301
 cancel MIG-GD1-82
 canceling OPR-GDE-1305
 ZSTIM A command OPR-GDE-1301
 ZSTIM C command OPR-GDE-1305
staged NCB directory record OPR-GDE-995
staged NCB directory record
 current NCB directory records
 copying from OPR-GDE-995
 switching from OPR-GDE-995
 ZNNCB REORG command OPR-GDE-995
stalled tape module queue OPR-GDE-26
stalled tape module queues GIM-27

- stamp, time SPM-PRM-83
- stand-alone dump (SADUMP) utility
 - assembling OPR-GDE-1449
 - description of OPR-GDE-1449
 - end
 - abnormal OPR-GDE-1450
 - normal OPR-GDE-1450
 - JCL, sample OPR-GDE-1449
 - loading OPR-GDE-1449
 - printing contents of OPR-GDE-1451
 - procedures for OPR-GDE-1449
 - program status word (PSW)
 - description of OPR-GDE-1450
 - I/O error OPR-GDE-1450
 - normal end of job OPR-GDE-1450
 - tape mounting OPR-GDE-1450
 - unexpected system interrupt OPR-GDE-1450
 - recommended tapes OPR-GDE-1449
 - sample JCL OPR-GDE-1449
 - setting up OPR-GDE-1449
 - tape
 - creating OPR-GDE-1449
 - exceeding the size of OPR-GDE-1450
- stand-alone dump postprocessor (SADPRT) utility
 - assembling OPR-GDE-1452
 - description of OPR-GDE-1451
 - dump output
 - spooling OPR-GDE-1452
 - end
 - abnormal OPR-GDE-1452
 - normal OPR-GDE-1452
 - JCL, sample OPR-GDE-1452
 - multiple tape reels
 - using OPR-GDE-1452
 - PARM= parameter
 - description of OPR-GDE-1451
 - errors OPR-GDE-1451
 - examples OPR-GDE-1452
 - main storage address range OPR-GDE-1451
 - procedures for OPR-GDE-1452
 - sample JCL OPR-GDE-1452
 - setting up OPR-GDE-1452
- standard C header files CLS-UGR-1393
- standard C header files
 - assert.h CLS-UGR-1393
 - ctype.h CLS-UGR-1393
 - errno.h CLS-UGR-1393
 - float.h CLS-UGR-1393
 - limits.h CLS-UGR-1393
 - locale.h CLS-UGR-1393
 - math.h CLS-UGR-1393
 - stdarg.h CLS-UGR-1393
 - stddef.h CLS-UGR-1393
 - stdio.h CLS-UGR-1393
 - stdlib.h CLS-UGR-1393
 - string.h CLS-UGR-1393
 - sys/ipc.h CLS-UGR-1393
 - sys/shm.h CLS-UGR-1393
 - time.h CLS-UGR-1393
- standard C/C++ functions not documented
 - CLS-UGR-1397
- standard CKD, cache DBS-REF-44
- standard communications interface SNA-PRM-21
- standard core block
 - initialization MIG-GD1-12
- standard data and message file (SDMF) tape
 - generating OPR-GDE-1477
 - input to system test compiler OPR-GDE-1477
- standard data message file (SDMF) SYS-GEN-121
- standard data message update (SDMU)
 - description of PDV-PRM-21
- standard data message update program (SDMU)
 - control cards for
 - disk allocation OPR-GDE-1481
 - disk type OPR-GDE-1481
 - end OPR-GDE-1481
 - hardware requirements OPR-GDE-1484
 - input for OPR-GDE-1477
 - output from OPR-GDE-1483
 - setup OPR-GDE-1483
- standard data message update
 - error messages PDV-PRM-44
 - generation PDV-PRM-38
 - overview PDV-PRM-37
- standard data/message file (SDMF) PDV-PRM-17, PDV-PRM-23, PDV-PRM-29, PDV-PRM-31
- standard dotted decimal formats CLAWGR-120
- standard error (stderr) stream
 - ZFILE cat command OPR-GDE-438
 - ZFILE cd command OPR-GDE-441
 - ZFILE chmod command OPR-GDE-444
 - ZFILE chown command OPR-GDE-448
 - ZFILE command OPR-GDE-434
 - ZFILE cp command OPR-GDE-451
 - ZFILE dd command OPR-GDE-454
 - ZFILE echo command OPR-GDE-457
 - ZFILE export command OPR-GDE-460
 - ZFILE find command OPR-GDE-463
 - ZFILE grep command OPR-GDE-468
 - ZFILE head command OPR-GDE-473
 - ZFILE hex command OPR-GDE-476
 - ZFILE kill command OPR-GDE-485
 - ZFILE ln command OPR-GDE-488
 - ZFILE ls command OPR-GDE-491
 - ZFILE mkdir command OPR-GDE-497
 - ZFILE mkfifo command OPR-GDE-500
 - ZFILE mv command OPR-GDE-506
 - ZFILE ps command OPR-GDE-509
 - ZFILE pwd command OPR-GDE-516
 - ZFILE rm command OPR-GDE-518
 - ZFILE rmdir command OPR-GDE-521
 - ZFILE sed command OPR-GDE-524
 - ZFILE tail command OPR-GDE-535
 - ZFILE tee command OPR-GDE-538
 - ZFILE touch command OPR-GDE-540
 - ZFILE tr command OPR-GDE-543
 - ZFILE unset command OPR-GDE-546
 - ZFILE xargs command OPR-GDE-548
- standard input (stdin) stream
 - ZFILE cat command OPR-GDE-438
 - ZFILE command OPR-GDE-434
 - ZFILE cp command OPR-GDE-451

standard input (stdin) stream (*continued*)
 ZFILE dd command OPR-GDE-454
 ZFILE head command OPR-GDE-473
 ZFILE hex command OPR-GDE-476
 ZFILE mv command OPR-GDE-506
 ZFILE rm command OPR-GDE-518
 ZFILE sed command OPR-GDE-524
 ZFILE tail command OPR-GDE-535
 ZFILE tee command OPR-GDE-538
 ZFILE tr command OPR-GDE-543
 ZFILE xargs command OPR-GDE-548
 Standard Linkage Macro Subroutine macro
 SYS-MAC-94
 standard output (stdout) stream
 duplicating OPR-GDE-538
 writing current directory to OPR-GDE-516
 writing data to OPR-GDE-457, OPR-GDE-476
 ZFILE cat command OPR-GDE-438
 ZFILE cd command OPR-GDE-441
 ZFILE command OPR-GDE-434
 ZFILE dd command OPR-GDE-454
 ZFILE echo command OPR-GDE-457
 ZFILE export command OPR-GDE-460
 ZFILE find command OPR-GDE-463
 ZFILE grep command OPR-GDE-468
 ZFILE head command OPR-GDE-473
 ZFILE hex command OPR-GDE-476
 ZFILE kill command OPR-GDE-485
 ZFILE ls command OPR-GDE-491
 ZFILE ps command OPR-GDE-509
 ZFILE pwd command OPR-GDE-516
 ZFILE sed command OPR-GDE-524
 ZFILE tail command OPR-GDE-535
 ZFILE tee command OPR-GDE-538
 ZFILE tr command OPR-GDE-543
 ZFILE unset command OPR-GDE-546
 standard record headers
 4-byte APP-GDE-265
 8-byte APP-GDE-265
 standard template library
 C++ class library support MIG-GD2-587
 standards for C PSM-GDE-25
 standards for C++ PSM-GDE-25
 start a CLAW logical link request CLAWGR-390
 start a program GEN-MAC-171, GEN-MAC-173,
 GEN-MAC-175
 Start an Input/Output (I/O) Operation macro
 SYS-MAC-436
 start an SSL session
 SSL API function, SSL_connect CLAWGR-279
 start data traffic (SNA command) SNA-PRM-22,
 SNA-PRM-247
 start of a program GEN-MAC-37
 start PDU processing
 ZRPDU CREATE command OPR-GDE-1224
 start subchannel instruction (SSCH) CON-STR-32
 start task SYS-MAC-12, SYS-MAC-98
 start work for a transaction branch CLS-UGR-720
 starting a TPF application
 from the Internet CON-STR-194
 starting an Internet server application CLAWGR-238

 Starting and Stopping Application Programs
 SNA-PRM-201
 starting and stopping the IP trace function CLAWGR-75
 starting the Internet daemon CLAWGR-237
 starting the IP trace facility CLAWGR-407
 starting TPFAR continuous data collection
 ZCDCO command OPR-GDE-190
 starting VisualAge TPF debug server
 ZDEBUG command OPR-GDE-287
 startup programs, definition SYS-GEN-17
 startup, TPFCS APP-GDE-101
 stat structure CLS-UGR-513
 state change MSP-PRM-5
 STATE parameter CLAWGR-238
 statement
 CONFIG MIG-GD1-208
 FCTBG MIG-GD1-208
 input statements MIG-GD1-221, MIG-GD1-222
 ONLFIL MIG-GD1-208
 RAM MIG-GD1-208
 RAMFIL MIG-GD1-204, MIG-GD1-208
 SSDEF MIG-GD1-208
 UFTFTI MIG-GD1-204, MIG-GD1-208
 static block dump APP-GDE-299
 static block
 description of APP-GDE-70
 static frame
 description of APP-GDE-70
 static override bitmap table INS-PRM-4, MSP-PRM-43
 static override bitmap table (SOBT)
 changes MIG-GD1-238
 content MIG-GD1-238
 override MIG-GD1-238
 Static Positional List Build macro GEN-MAC-56
 static storage APP-GDE-70
 static variables APP-GDE-70
 static VIPA
 defined CLAWGR-64
 status DBS-REF-95
 status management MPI-PRM-17
 status of an SDA SYS-MAC-159
 status of PTV objects PDV-PRM-14
 status, cache control unit DBS-REF-43, DBS-REF-49
 status
 display tape GEN-MAC-392
 STC (system test compiler) INS-PRM-261
 STC control program
 error messages PDV-PRM-44
 STC data generation facility
 for input messages PDV-PRM-11
 STC I/O program
 error messages PDV-PRM-44
 STC overview PDV-PRM-45
 STC prefix PDV-PRM-25, PDV-PRM-29
 STC processing
 overview PDV-PRM-45
 STC
 description of PDV-PRM-17
 STCC PDV-PRM-44
 STCI PDV-PRM-44
 STCL PDV-PRM-44

stdout, format and print data CLS-UGR-680
 stdout
 format and print data CLS-UGR-680
 step macros
 #STPC macro SPM-71
 #STPF macro SPM-72
 #STPH macro SPM-74
 #STPR macro SPM-76
 example of SPM-71, SPM-72, SPM-74, SPM-77
 STGPILLOT ACF-GDE-57
 STIMC macro SYS-MAC-460
 STLDR PDV-PRM-44
 STLport
 C++ class library support MIG-GD2-587
 STLUC macro SYS-MAC-462
 stop all CLAW activity CLAWGR-395
 stop CLAW activity on subchannel pair CLAWGR-388
 stopping an Internet server application CLAWGR-238
 stopping the Internet daemon CLAWGR-237
 stopping the IP trace facility CLAWGR-408
 stopping TPFAR continuous data collection
 ZCDCO command OPR-GDE-190
 storage address
 get GEN-MAC-228
 storage allocation GIM-24
 storage allocation table creation SYS-MAC-501
 storage allocation values
 altering and displaying MSP-PRM-29
 changing OPR-GDE-231
 displaying OPR-GDE-236
 ZCTKA ALTER command OPR-GDE-231
 ZCTKA DISPLAY command OPR-GDE-236
 storage allocation
 control program table allocation MIG-GD1-262
 modify online MIG-GD1-262
 overview MIG-GD1-18
 tape processing MIG-GD1-262
 valid keywords MIG-GD1-262
 storage alteration events
 tracing PDV-PRM-62
 storage areas for TPFAR AR-USG-13
 storage areas for TPFAR
 MAXHCT AR-USG-13
 MAXSDD AR-USG-13
 MAXSMTB AR-USG-13
 storage block initialization GEN-MAC-249
 storage blocks available CLS-UGR-379
 storage blocks
 attach working storage GEN-MAC-34
 auto storage GEN-MAC-28
 available SYS-MAC-360
 change size GEN-MAC-314
 connecting SYS-MAC-16
 detach working storage GEN-MAC-152
 disconnecting SYS-MAC-27
 filling GEN-MAC-246, GEN-MAC-249
 get GEN-MAC-228, SYS-MAC-33
 get address GEN-MAC-230
 get and release MIG-GD1-278
 get common storage GEN-MAC-248
 get size SYS-MAC-376
 storage blocks (*continued*)
 get working storage GEN-MAC-244
 getting SYS-MAC-345
 getting and returning MSP-PRM-22
 getting heap storage GEN-MAC-57
 logical MSP-PRM-21
 query the number of MIG-GD1-312
 release GEN-MAC-224, GEN-MAC-327,
 SYS-MAC-64, SYS-MAC-68
 reserve GEN-MAC-303
 threshold checking MSP-PRM-21
 validating address GEN-MAC-528
 write a tape record GEN-MAC-411
 storage dump format
 for coupling facility support DBS-REF-248
 storage dump
 description of PDV-PRM-66
 storage lock
 release GEN-MAC-331
 storage management MSP-PRM-21
 storage management functions
 attac_ext CLS-UGR-21
 attac_id CLS-UGR-23
 attac CLS-UGR-19
 crusa CLS-UGR-73
 detac_ext CLS-UGR-86
 detac_id CLS-UGR-88
 detac CLS-UGR-85
 getcc CLS-UGR-248
 rehka CLS-UGR-419
 relcc CLS-UGR-421
 unhka CLS-UGR-666
 storage protection CON-STR-28, INS-PRM-245
 storage protection key
 run-time authorization MIG-GD1-278
 storage types
 working storage APP-GDE-237
 storage
 auxiliary GIM-15
 between ECBs MIG-GD1-277
 block types MIG-GD1-278
 boundaries SYS-GEN-34
 contiguous MSP-PRM-22
 contiguous storage MIG-GD1-278, MIG-GD1-307,
 MIG-GD2-13
 control blocks SYS-GEN-46
 direct access storage devices (DASD)
 MIG-GD1-186, MIG-GD2-36
 director SYS-GEN-87
 E-type programs MIG-GD1-220
 ECB virtual memory MIG-GD1-307
 file GIM-15
 get contiguous EVM SYS-MAC-44
 get contiguous pieces in the heap private area
 MIG-GD1-307
 heap MSP-PRM-22
 heap storage MIG-GD1-13, MIG-GD1-307,
 MIG-GD2-13
 how to manipulate MIG-GD1-309
 initial allocation SYS-GEN-43

storage (*continued*)
 initial allocation
 SIP macro parameters SYS-GEN-44
 key-protected INS-PRM-403
 key-protected storage MIG-GD1-219
 lock GEN-MAC-254
 lock in programs MIG-GD1-306
 logical storage MIG-GD1-213, MIG-GD1-278
 low storage MIG-GD1-277
 main GIM-15
 main storage MIG-GD1-13, MIG-GD1-203,
 MIG-GD1-212, MIG-GD1-213, MIG-GD1-225,
 MIG-GD1-277, MIG-GD1-297
 managing MSP-PRM-21
 manipulation macros MIG-GD1-309
 MPIF SYS-GEN-45
 overlay errors MIG-GD1-277
 per message SYS-GEN-42
 physical storage MIG-GD1-213
 protected storage MIG-GD1-277
 real storage MIG-GD1-209, MIG-GD1-277
 release MIG-GD1-307
 release acquired SYS-MAC-77, SYS-MAC-81
 storage devices MIG-GD1-186, MIG-GD2-36
 storage protection key MIG-GD1-277, MIG-GD1-278
 system heap SYS-MAC-50, SYS-MAC-81,
 SYS-MAC-279
 tape libraries MIG-GD1-186, MIG-GD2-36
 tape units MIG-GD1-186, MIG-GD2-36
 unlock programs MIG-GD1-306
 unprotected INS-PRM-403
 unprotected storage MIG-GD1-219
 unprotected working INS-PRM-403
 use of streamlined MIG-GD1-213
 virtual file access (VFA) storage MIG-GD1-249
 virtual storage MIG-GD1-213, MIG-GD1-277,
 MIG-GD1-297
 working storage MIG-GD1-13, MIG-GD1-22,
 MIG-GD1-212, MIG-GD1-213, MIG-GD1-214,
 MIG-GD1-249, MIG-GD1-278
 store clock CLS-UGR-634
 store keypoint copy
 keypoint staging area MIG-GD1-267
 storing data in the IP trace table CLAWGR-408
 storing Web page contents CON-STR-192
 storing Web pages CON-STR-192
 storing
 as the next element CLS-UGR-1161
 collections on DASD DBS-REF-214
 data elements in USERdata objects DBS-REF-173
 in the browser dictionary CLS-UGR-1228
 objects on DASD, TPFCS DBS-REF-207
 TPFCS collections in a TPF database DBS-REF-157
 using the key CLS-UGR-1192
 using the new key CLS-UGR-1198, CLS-UGR-1204,
 CLS-UGR-1210
 where cursor points CLS-UGR-1121
 STP GEN-MAC-134, GEN-MAC-136
 STPP
 See PARM
 STR (Sysplex Timer) MSP-PRM-33, SYS-GEN-162
 STR cabling SYS-GEN-227
 stream file
 comparison with database file CON-STR-150
 using in programs CON-STR-151
 what is it? CON-STR-150
 why use CON-STR-150
 stream sockets
 Transmission Control Protocol (TCP) CLAWGR-119
 stream
 access mode CLS-UGR-215
 associating with file descriptor CLS-UGR-137
 binary mode CLS-UGR-215
 buffering CLS-UGR-460
 changing current file position CLS-UGR-226,
 CLS-UGR-234
 changing file position CLS-UGR-431
 closing CLS-UGR-127
 EOF (end of file) CLS-UGR-141
 formatted I/O CLS-UGR-201, CLS-UGR-217
 Input/Output CLS-UGR-127
 opening CLS-UGR-199
 reading characters with fgetc CLS-UGR-146
 reading characters with getc and getchar
 CLS-UGR-246
 reading data items with fread() CLS-UGR-213
 reading lines with fgets() CLS-UGR-150
 redirection CLS-UGR-215
 reopening CLS-UGR-215
 rewinding CLS-UGR-431
 text mode CLS-UGR-215
 translation mode CLS-UGR-215
 ungetting characters CLS-UGR-664
 updating CLS-UGR-199, CLS-UGR-215
 writing characters with fputc CLS-UGR-209
 writing characters with putc and putchar
 CLS-UGR-400
 writing data items CLS-UGR-239
 writing lines with puts() CLS-UGR-402
 writing strings CLS-UGR-211
 STREAMDDM data collection report for TPFAR
 AR-USG-99
 string
 writing with fputs CLS-UGR-211
 structure and DSECT definition and documentation -
 standards PSM-GDE-25
 structure object
 locating DBS-REF-218
 storing data DBS-REF-218
 structured programming macros (SPMs)
 advantages of SPM-3
 forms of SPM-4
 indenting SPM-10
 introduction SPM-3
 iteration
 #DO macro group SPM-50
 definition of SPM-5
 DO macro group SPM-99
 nesting level SPM-10
 rules for SPM-6
 selection
 #CASE macro group SPM-31

structured programming macros (SPMs) *(continued)*

- selection *(continued)*
 - #IF macro group SPM-65
 - CASE macro group SPM-92
 - definition of SPM-4
 - IF macro group SPM-106
 - SELECT macro group SPM-119
- sequence
 - definition of SPM-4
- TPF
 - CASE macro group SPM-92
 - DCL macro SPM-95
 - DCLREG macro SPM-98
 - DO macro group SPM-99
 - GOTO macro SPM-105
 - IF macro group SPM-106
 - introduction SPM-3
 - LEAVE macro SPM-113
 - LET macro SPM-114
 - SELECT macro group SPM-119
 - SET macro SPM-122
- TPFDF
 - # macro SPM-30
 - #CASE macro group SPM-31
 - #CONB macro SPM-35
 - #COND macro SPM-37
 - #CONH macro SPM-39
 - #CONP macro SPM-41
 - #CONS macro SPM-44
 - #CONT macro SPM-46
 - #CONX macro SPM-48
 - #DO macro group SPM-50
 - #EXEC macro SPM-60
 - #GOTO macro SPM-63
 - #IF macro group SPM-65
 - #SPM macro SPM-68
 - #STPC macro SPM-71
 - #STPF macro SPM-72
 - #STPH macro SPM-74
 - #STPR macro SPM-76
 - #SUBR macro group SPM-78
 - conversion macros, summary of SPM-10
 - general information about SPM-9
 - indenting SPM-10
 - introduction SPM-3
 - line continuation SPM-30
- Structured Query Language (SQL) AR-USG-1
- Structured Query Language (SQL) trace table AR-USG-13, AR-USG-16, AR-USG-98
- structured query language (SQL)
 - database management systems (DBMS)
 - maximum number OPR-GDE-979
 - definition of AR-USG-112
 - trace information
 - 4 KB storage areas required OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- Structured Query Language (SQL)
 - C language header files AR-USG-32
 - considerations AR-USG-28
 - dynamic AR-USG-30
 - error handling AR-USG-32
- Structured Query Language (SQL) *(continued)*
 - maximum number of cursors AR-USG-29
 - protect key AR-USG-30
 - registers AR-USG-30
 - request unit size AR-USG-28
 - supported commands for TPFAR AR-USG-101
 - synchronizing updates AR-USG-31
 - time field length, specifying AR-USG-28
 - working storage for TPFAR blocks AR-USG-30
 - Structured Query Language Communications Area (SQLCA) AR-USG-28
 - Structured Query Language Communications Area (SQLCA)
 - definition of AR-USG-112
 - SQLCODE AR-USG-28, AR-USG-32
 - SQLSTATE AR-USG-28, AR-USG-32
 - Structured Query Language Database Management System Directory
 - displaying OPR-GDE-1290
 - maintaining OPR-GDE-1290
 - ZSQLD command OPR-GDE-1290
 - structured query
 - display MIG-GD1-81, MIG-GD1-82
 - maintain MIG-GD1-81, MIG-GD1-82
 - StructureDASD attributes DBS-REF-185
 - StructureDasd class DBS-REF-181
 - StructureMem class DBS-REF-173
 - structures, TPFCS CLS-UGR-859
 - STTS (system test terminal simulator)
 - See system test terminal simulator (STTS) program
 - stub APP-GDE-328
 - SUB PDV-PRM-28
 - subarea SNA-PRM-234
 - subarea address table (SAT) SNA-PRM-234
 - subarea address table (SAT)
 - changes MIG-GD1-252, MIG-GD2-198
 - create MIG-GD1-211
 - initialize MIG-GD1-211
 - subarea address table
 - subarea report
 - description of ACF-GDE-32
 - example ACF-GDE-63
 - subarea interface (T5) CON-STR-186
 - SUBAREA parameter
 - CDRM statement ACF-GDE-39
 - CTC statement ACF-GDE-50
 - EXEC PARM field ACF-GDE-30
 - NCP statement ACF-GDE-48
 - subarea report
 - description of ACF-GDE-32
 - example ACF-GDE-63
 - subareas
 - defining OPR-GDE-953
 - redefining OPR-GDE-956
 - route of
 - displaying OPR-GDE-972
 - status of
 - displaying OPR-GDE-968
 - ZNDYN ADD command OPR-GDE-953
 - ZNDYN CHANGE command OPR-GDE-956
 - ZNETW DISPLAY command OPR-GDE-968

- subareas (*continued*)
 - ZNETW ROUTE command OPR-GDE-972
- subchannel information block SYS-GEN-87
- subchannel pair, stop activity CLAWGR-388
- SUBST PDV-PRM-29
- subsystem MSP-PRM-33
- subsystem (SS) CON-STR-98
- subsystem (SS)
 - basic subsystem (BSS) CON-STR-130
 - physical separation of data CON-STR-129
 - relation to subsystem users (SSU) CON-STR-130
 - switching among subsystems CON-STR-135
- subsystem access request SYS-MAC-185
- subsystem change CLS-UGR-25
- subsystem date
 - displaying OPR-GDE-298
 - ZDDAT command OPR-GDE-298
- subsystem id/subsystem user id SYS-MAC-122
- subsystem local time GEN-MAC-395
- subsystem pools SPM-PRM-28
- subsystem requirements for TPFAR AR-USG-18
- subsystem status table (SSST) access SYS-MAC-400
- subsystem support services (SSS)
 - encryption techniques SYS-GEN-140
- subsystem user (SSU) CON-STR-98
- subsystem user (SSU)
 - logical separation of data CON-STR-129
 - relation to subsystem (SS) CON-STR-130
 - shared record CON-STR-132
 - switching among subsystem users CON-STR-135
 - unique record CON-STR-132, CON-STR-133
- subsystem user ID (SSU ID) CON-STR-136
- subsystem user ID (SSU ID)
 - subsystem user ID (SSU ID) CON-STR-136
- subsystem user shared record CON-STR-132
- subsystem user
 - for pilot tapes PDV-PRM-37
 - macro table PDV-PRM-62
- subsystem users MSP-PRM-33
- subsystem
 - how to access the user (SSU) record MIG-GD1-247
 - map RSC SSID/device addresses MIG-GD1-65
 - use the index to access the FACE table structure MIG-GD1-247
 - users (SSUs)
 - alter SSU records MIG-GD1-71
 - relationship with FARF MIG-GD1-66
 - specify MIG-GD1-284
- subsystems SPM-PRM-1
- subsystems
 - activating OPR-GDE-1132
 - date
 - displaying OPR-GDE-298
 - deactivating OPR-GDE-1132
 - status information
 - displaying OPR-GDE-1132
 - ZDDAT command OPR-GDE-298
 - ZPSMS command OPR-GDE-1132
- SUD error codes GEN-MAC-23
- summarize system work load levels and VIPA statistics
 - ZVIPA command OPR-GDE-1430
- summary of processing differences for 3990 Model 3 and ESS DBS-REF-49
- super GOA INS-PRM-244, INS-PRM-261, INS-PRM-262, INS-PRM-301
- Super GOA INS-PRM-312
- supervisor call (SVC) code
 - displaying OPR-GDE-375
 - ZDSVC command OPR-GDE-375
- supervisor call (SVC)
 - add existing SVCs to the TPF system MIG-GD1-231
 - add new SVCs to the TPF system MIG-GD1-231
 - changes MIG-GD1-229, MIG-GD1-231
 - define MIG-GD1-229, MIG-GD1-231
 - display index in SVC table MIG-GD1-69
 - display SVC code in hexadecimal MIG-GD1-69
 - indexed MIG-GD1-231
 - instruction definition MIG-GD1-18, MIG-GD1-19
 - migrate entries MIG-GD1-231
 - overview MIG-GD1-18, MIG-GD1-19
 - secondary MIG-GD1-231
 - specify MIG-GD1-231
 - table
 - add existing SVCs to the TPF 4.1 system MIG-GD1-231
 - add new SVCs to the TPF 4.1 system MIG-GD1-231
 - changes MIG-GD1-231
 - define MIG-GD1-231
 - get SVC entry addresses MIG-GD1-234
 - maintain MIG-GD1-231
- supervisor call instruction (SVC) CON-STR-36
- supervisor call instructions GIM-28
- supervisor state SYS-MAC-61, SYS-MAC-344, SYS-MAC-348, SYS-MAC-459
- support for pthread API
 - API changes MIG-GD2-677
 - architecture MIG-GD2-667
 - C/C++ language MIG-GD2-668
 - commands MIG-GD2-674
 - copy members MIG-GD2-670
 - database changes MIG-GD2-677
 - feature changes MIG-GD2-677
 - functional changes MIG-GD2-673
 - functional overview MIG-GD2-667
 - host system changes MIG-GD2-677
 - installation validation MIG-GD2-677
 - interfaces MIG-GD2-668
 - loading process MIG-GD2-676
 - macros MIG-GD2-671
 - migration scenarios MIG-GD2-677
 - offline messages MIG-GD2-674
 - online messages MIG-GD2-674
 - online system load MIG-GD2-676
 - operating environment requirements MIG-GD2-667
 - operational changes MIG-GD2-673
 - overview MIG-GD2-667
 - performance changes MIG-GD2-675
 - planning information MIG-GD2-667
 - prerequisite APARs MIG-GD2-667
 - publication changes MIG-GD2-676
 - segments MIG-GD2-673

support for pthread API (*continued*)
 SIP changes MIG-GD2-676
 storage changes MIG-GD2-675
 storage considerations MIG-GD2-675
 system errors MIG-GD2-674
 system generation changes MIG-GD2-676
 tuning changes MIG-GD2-675
 supported block types SYS-MAC-500
 supported verb functions, TPF/APPC SNA-PRM-72
 suspend a global transaction CLS-UGR-655
 suspend ECB if running too long CLS-UGR-553
 Suspend ECB, Pending I/O Completion macro
 SYS-MAC-349
 suspend if resources are low CLS-UGR-308,
 GEN-MAC-294
 suspend list CON-STR-61
 Suspend list PI (UCCSUSE) INS-PRM-85
 suspend list PI (UCCSUSP) INS-PRM-86
 Suspend list Resource Checking (UCCSUSC)
 INS-PRM-87
 suspend long running ECB SYS-MAC-488
 Suspend Normal CIO Processing macro SYS-MAC-457
 suspend processing MSP-PRM-16
 Suspend processing for ECB I/O completion macro
 GEN-MAC-554
 suspend processing for ECB I/O completion macro
 (WAITC) CON-STR-89
 suspend processing macros and functions
 APP-GDE-233
 suspend the calling process CLS-UGR-507
 suspend transaction APP-GDE-89
 suspended entry control block (ECB)
 displaying OPR-GDE-401
 removing OPR-GDE-401
 unsuspending OPR-GDE-401
 ZECBL command OPR-GDE-401
 suspending a commit scope APP-GDE-91
 SVC definition SYS-MAC-180
 SVC enhancements GIM-28
 SVC macro decoder INS-PRM-90, MSP-PRM-19
 SVC macro service services INS-PRM-8
 SVC macros MSP-PRM-19
 SVC numbers in macro decoder SYS-MAC-146
 SVCs
 adding new MSP-PRM-20
 displaying MSP-PRM-20
 secondary MSP-PRM-19
 SVM SYS-MAC-84
 SVM Address SYS-MAC-40
 SVM address conversion SYS-MAC-276
 SW00RT2
 testing SPM-22
 SW00RTN
 testing SPM-22
 swapping a storage block with a data event control
 block (DECB) CLS-UGR-582
 SWBs
 use of MSP-PRM-22
 SWCHC macro SYS-MAC-464
 sweep, TPF MQSeries APP-GDE-87
 swinging transmission queues, TPF MQSeries
 APP-GDE-84
 swinging VIPAs CLAWGR-68
 SWISC MSP-PRM-15, MSP-PRM-16
 SWISC macro SYS-MAC-467
 Switch Address Space macro SYS-MAC-84
 Switch Entry to Another I-Stream macro SYS-MAC-467
 switch entry to another I-stream macro (SWISC)
 create option CON-STR-88
 dispatching from ready list CON-STR-86
 enter option CON-STR-79
 input parameters CON-STR-86
 processing description CON-STR-86
 service routine CON-STR-86
 switch I-stream engine for application processing
 CON-STR-179
 switch I/O processing between I-stream engines
 CON-STR-87
 switch release record structures
 ZRREC SWITCH command OPR-GDE-1235
 switchable resources in loosely coupled system
 MSP-PRM-34
 switched virtual circuits (SVC) SNA-PRM-29
 SYCON PDV-PRM-6
 SYCON macro SYS-MAC-471
 SYCON variables SYS-GEN-127
 symbol parameter
 ANTDEF statement ACF-GDE-35
 ANTEND statement ACF-GDE-37
 ANTNME statement ACF-GDE-36
 description of ACF-GDE-33
 RSC statement ACF-GDE-40
 RSCDEF statement ACF-GDE-40
 RSCEND statement ACF-GDE-45
 RSCSET statement ACF-GDE-45
 symbolic address CON-STR-9
 symbolic device address SYS-GEN-87
 symbolic device address (SDA) CON-STR-110,
 SYS-MAC-281, SYS-MAC-436
 symbolic device address (SDA) status SYS-MAC-326
 symbolic device address (SDA)
 adjacent link station (ALS) resource
 displaying OPR-GDE-917
 channel-to-channel (CTC) link
 displaying OPR-GDE-917
 mounting OPR-GDE-971
 network control program (NCP) resource
 displaying OPR-GDE-917
 tracing OPR-GDE-1052
 ZNALS command OPR-GDE-917
 ZNETW MOUNT command OPR-GDE-971
 ZNTRP command OPR-GDE-1052
 symbolic device address table ACF-GDE-4
 Symbolic Device Address Table (SDAT) SNA-PRM-233
 symbolic device address table (SDAT)
 SNA I/O trace facility MIG-GD1-304
 SNA I/O trace indicator bit
 modify MIG-GD1-304
 SNA keypoint MIG-GD1-304
 symbolic file address information CLS-UGR-511,
 CLS-UGR-586

- symbolic file address information
 - getting SYS-MAC–218, SYS-MAC–226
- symbolic file address macro GEN-MAC–366
- symbolic line number SNA-PRM–48
- symbolic line number
 - invalid SNA-PRM–49
- symbolic line status table SYS-MAC–386
- symbolic line status table (SLST) SYS-GEN–132
- symbolic line type checking SYS-MAC–383
- symbolic link OPR-GDE–488
- symbolic link
 - comparison with hard link CON-STR–156
 - example of using CON-STR–155
 - what is it? CON-STR–155
- symbolic module number CON-STR–110
- symbolic names SYS-GEN–6
- symbolic names
 - in global area APP-GDE–240, APP-GDE–242, APP-GDE–246
- symbolic register names, naming conventions PSM-GDE–22
- symbolic tape names OPR-GDE–18
- symbols
 - assigning values to SPM–114
 - DCL macro SPM–95
 - declaring attributes for SPM–95
 - LET macro SPM–114
- SYNC numbers SNA-PRM–151
- SYNCC macro APP-GDE–244, GEN-MAC–372
- SYNCC macro coding sample INS-PRM–318
- SYNCC operation APP-GDE–243
- synchronizable global field record (SGFR) INS-PRM–307
- synchronization cabling SYS-GEN–227
- synchronization check characters SNA-PRM–46
- synchronization of globals CON-STR–140
- synchronization of SQL updates
 - application program considerations for AR-USG–31
- synchronization selection address (SSA) SYS-GEN–31
- synchronization, parallel processing CON-STR–22
- synchronize globals macro GEN-MAC–372
- synchronize globals macro (SYNCC) CON-STR–140
- Synchronize Tape macro GEN-MAC–490
- synchronize
 - tape CLS-UGR–645
 - TPF global field or record CLS-UGR–284
- synchronizing global areas APP-GDE–243
- Synchronizing Messages with Sequence Numbers SNA-PRM–23
- synchronous data link (SDLC) SNA-PRM–12, SNA-PRM–26
- synchronous data link control (SDLC) CON-STR–186
- Synchronous Data Link Control (SDLC) SPM-PRM–3
- synchronous line control table (SLCT)
 - assigning communication lines to OPR-GDE–681
 - ZLASN command OPR-GDE–681
- synchronous link control (SLC) CON-STR–176, CON-STR–186, SYS-GEN–8
- synchronous link control (SLC)
 - alter CCP restart/shutdown polling controls MIG-GD1–72
- synchronous link control (SLC) (*continued*)
 - changing CCP polling controls for OPR-GDE–676
 - displaying link statistics for OPR-GDE–692
 - displaying status OPR-GDE–687
 - link trace
 - starting OPR-GDE–695
 - stopping OPR-GDE–694
 - performing P1024 tests OPR-GDE–710
 - start link trace MIG-GD1–73
 - stop link trace MIG-GD1–73
 - use MIG-GD1–199, MIG-GD1–258, MIG-GD2–49
 - validating OPR-GDE–712
 - ZLACL command OPR-GDE–676
 - ZLDLS command OPR-GDE–687
 - ZLKST command OPR-GDE–692
 - ZLKTF command OPR-GDE–694
 - ZLKTN command OPR-GDE–695
 - ZLTST command OPR-GDE–710
 - ZLVAL command OPR-GDE–712
- Synchronous Link Control Functional Specification NSC-PRM–1
- Synchronous Link Control Functional Specification errors NSC-PRM–14
 - items subject to bilateral agreement NSC-PRM–15
 - link cycling procedures NSC-PRM–14
 - link operational procedures NSC-PRM–9
 - processing description NSC-PRM–1
- Synchronous Link Control Package NSC-PRM–35
- Synchronous Link Control Package
 - Core-Resident CCP NSC-PRM–45
 - data collection/reduction NSC-PRM–51
 - file resident CCP NSC-PRM–47
 - general facilities NSC-PRM–36
 - input message processing NSC-PRM–38
 - Link Controller NSC-PRM–41
 - Output Message Handler NSC-PRM–39
 - Recoup NSC-PRM–51
- synchronous link control
 - link trace package NSC-PRM–33
- synchronous link lines
 - display status MIG-GD1–72
 - start MIG-GD1–73
 - stop MIG-GD1–74
 - validate MIG-GD1–74
- SYNCLK macro SYS-GEN–314
- synonym chain
 - description of SNA-PRM–181
 - displaying OPR-GDE–958
 - ZNDYN DISPLAY command OPR-GDE–958
- syntax diagrams ACF-GDE–xii, GEN-MAC–xvii, OPR-GDE–xxv, SNA-PRM–xx, SPM–xii, SYS-GEN–xvi, SYS-MAC–xv
- SYSEQ tag
 - TPF 4.1 system MIG-GD1–59
- SYSEQC macro APP-GDE–251, GEN-MAC–377
- SYSEQC tag conversion GEN-MAC–340
- SYSIBM.SYSLUNAMES table AR-USG–21
- SYSIBM.SYSLUSERNAMES table
 - LUNAME field AR-USG–21
 - NEWAUTHID field AR-USG–21
- syslog daemon CLAWGR–245

- syslog daemon configuration file
 - example of CLAWGR-248
 - modifying CLAWGR-249
 - syntax CLAWGR-246
- syslog daemon
 - See *also* FIFO special file support
 - closelog function CLS-UGR-48
 - openlog function CLS-UGR-386
 - syslog function CLS-UGR-523
 - adding entry to IDCf CLAWGR-249
 - configuration file CLAWGR-246
 - description of CON-STR-189
 - diagnosing configuration problems CLAWGR-251
 - files used by CLAWGR-245, CLAWGR-246
 - general discussion APP-GDE-175
 - logging messages for the TPF Internet mail servers OPR-GDE-714
 - offloading log files CLAWGR-251
 - operating CLAWGR-250
 - overview CLAWGR-245
 - starting CLAWGR-250
 - stopping CLAWGR-250
- syslog.conf CLAWGR-246
- SYSOUT data set ACF-GDE-31
- Sysplex Timer (STR) SYS-GEN-162
- Sysplex Timer information
 - adding to keypoint I (CTKI) OPR-GDE-88
 - ZATIM command OPR-GDE-88
- Sysplex Timer* (STR) MSP-PRM-33
- Sysplex Timer
 - characteristics of
 - displaying OPR-GDE-387
 - displaying OPR-GDE-387
 - IPL procedure OPR-GDE-3
 - time-of-day (TOD) clock
 - synchronizing OPR-GDE-90
 - ZATIM command OPR-GDE-90
 - ZDTIM command OPR-GDE-387
- SYSPUNCH output SYS-GEN-175
- SYSRA macro APP-GDE-276, GEN-MAC-378
- SYSTC bit
 - modify MIG-GD1-262
- SYSTC macro GEN-MAC-381
- system activity
 - monitor MIG-GD1-312
- system allocation
 - overview MIG-GD1-17
 - process simplifications MIG-GD1-223
- system allocator PDV-PRM-6
- system allocator (SAL) CON-STR-79
- system allocator (SALO) GIM-24
- system allocator (SALO)
 - C run-time library MIG-GD1-224
 - changes MIG-GD1-217
 - changes to INS-PRM-400
 - create offline system allocator (SAL) table MIG-GD1-203
 - create program allocation table (PAT) MIG-GD1-203
 - criteria for running MIG-GD1-224
 - description INS-PRM-399
 - how to run MIG-GD1-224
- system allocator (SALO) (*continued*)
 - input decks INS-PRM-400
 - overview MIG-GD1-19
 - procedure to run SIP stage I MIG-GD1-224
 - procedure to run SIP stage II MIG-GD1-224
 - program
 - description MIG-GD1-223
 - format of output MIG-GD1-224
 - system allocation changes MIG-GD1-223
 - table allocation changes MIG-GD1-224
 - running the program INS-PRM-406
 - table
 - allocation information MIG-GD1-19
 - changes MIG-GD1-161, MIG-GD1-227
 - create MIG-GD1-217
 - generate by running the system allocator (SALO) MIG-GD1-227
 - overview MIG-GD1-19
 - produced by system allocator (SAL) MIG-GD1-224
 - use by the TPF 4.1 system MIG-GD1-224
 - tape
 - overview MIG-GD1-19
- system allocator table CON-STR-79, INS-PRM-323, INS-PRM-344, MSP-PRM-31
- system allocator table (SALTBL)
 - input to system test compiler OPR-GDE-1478
- System authorization SYS-MAC-14
- system availability
 - overview MIG-GD1-13
- system clock
 - modification MIG-GD1-82
 - setting OPR-GDE-1319
 - system test vehicle (STV) MIG-GD1-82
 - ZSTVS CLOCK command OPR-GDE-1319
- system collector OPR-GDE-1457
- system communication configuration table (CTKE) SNA-PRM-48
- system communication keypoint records SNA-PRM-48
- system components
 - copying individual components INS-PRM-342
 - loading to a storage medium INS-PRM-358
 - loading to a TPF image INS-PRM-341
 - loading to GDS INS-PRM-417
 - loading to tape INS-PRM-417
 - loading to the general file INS-PRM-322, INS-PRM-338
 - loading to VRDR INS-PRM-418
- System Configuration macro SYS-MAC-471
- system control program SPM-PRM-3
- system data loader INS-PRM-261
- system date
 - displaying OPR-GDE-298
 - ZDDAT command OPR-GDE-298
- system dump PDV-PRM-137
- system dumps GEN-MAC-22
- system error codes in SUD GEN-MAC-23
- system error determination GEN-MAC-291, GEN-MAC-363
- system error dump headings PDV-PRM-66

- system error dumps
 - options
 - changing OPR-GDE-606
 - displaying OPR-GDE-606
 - ZIDOT command OPR-GDE-606
- system error functions APP-GDE-276
- System Error macro GEN-MAC-357
- system error macro for applications GEN-MAC-378
- system error options MSP-PRM-39
- system error options
 - changing OPR-GDE-84, OPR-GDE-606
 - displaying OPR-GDE-360, OPR-GDE-606
 - ZASER command OPR-GDE-84
 - ZDSER command OPR-GDE-360
 - ZIDOT command OPR-GDE-606
- system error processing APP-GDE-275, MSP-PRM-39
- system error processing
 - for C function trace
 - criteria for formatting and dumping ECBs
 - PDV-PRM-137
 - overview PDV-PRM-136
 - performance considerations PDV-PRM-137
 - selecting ECBs for formatting and dumping
 - PDV-PRM-137
- system error user exits
 - catastrophic recovery INS-PRM-20
 - dump override INS-PRM-38, INS-PRM-64
 - SERRC errors INS-PRM-91, INS-PRM-92
 - SNAPC errors INS-PRM-79, INS-PRM-80
- system error with message CLS-UGR-389
- system error
 - calls (SERRC)
 - migration MIG-GD1-319
 - detected by operational programs GEN-MAC-22
 - dump changes GIM-27
 - dump
 - control content MIG-GD1-19
 - SNA I/O trace table MIG-GD1-304
 - message address spaces MIG-GD1-19
 - options OPR-GDE-12
 - options
 - override MIG-GD1-263
 - specify MIG-GD1-263
 - overview MIG-GD1-19, MIG-GD1-264
 - package
 - changes MIG-GD1-229, MIG-GD1-236
 - ECB virtual memory (EVM) MIG-GD1-236
 - modify MIG-GD1-236
 - system virtual memory (SVM) MIG-GD1-236
 - prefix numbers MIG-GD1-19
 - program wait states OPR-GDE-6
 - system storage areas MIG-GD1-19
- system errors PSM-GDE-11
- system generation INS-PRM-322
- system generation options test CLS-UGR-526
- system generation options
 - changing OPR-GDE-1328
 - displaying OPR-GDE-1330
 - ZSYSG ALTER command OPR-GDE-1328
 - ZSYSG DISPLAY command OPR-GDE-1330
- System Generation Services
 - non-SNA macros SYS-GEN-335
 - SIP macros SYS-GEN-207
- system generation
 - changes MIG-GD1-203, MIG-GD1-216
 - generate the TPF 4.1 system MIG-GD1-203
 - modify options MIG-GD1-262
 - option values and settings
 - alter MIG-GD1-82
 - CLEAR keyword MIG-GD1-262
 - description MIG-GD1-211
 - display MIG-GD1-83
 - keyword MIG-GD1-262
 - modify MIG-GD1-262
 - TPPDF keyword MIG-GD1-262
 - VEQR keyword MIG-GD1-262
 - SYSTC
 - changes MIG-GD1-235
 - description MIG-GD1-235
 - test MIG-GD1-235
- system heap CON-STR-75, CON-STR-76
- system heap enhancements
 - overview MIG-GD2-13
- system heap storage release CLS-UGR-443
- system heap storage
 - command
 - ZACOR MIG-GD2-176
 - ZDCOR MIG-GD2-176
 - enhancements MIG-GD2-13
 - getting SYS-MAC-50, SYS-MAC-279
 - overview MIG-GD2-13
 - releasing SYS-MAC-81, SYS-MAC-413
- system ID
 - displaying OPR-GDE-363
 - ZDSID command OPR-GDE-363
- system initialization CON-STR-60, MSP-PRM-1, MSP-PRM-4
- system initialization program (SIP) SNA-PRM-21, SNA-PRM-26
- system initialization program (SIP)
 - changes MIG-GD1-204
 - display tape queue timeout value MIG-GD1-65
 - overview MIG-GD1-11
 - stand-alone dump (SADUMP) utility
 - assembling OPR-GDE-1449
 - stand-alone dump postprocessor (SADPRT) utility
 - assembling OPR-GDE-1452
 - storage allocation values
 - alter MIG-GD1-65
 - display MIG-GD1-65
- system initialization
 - file address compute program (FACE) MIG-GD1-19
 - improved GIM-29
 - IPL procedure OPR-GDE-3
 - loader general file OPR-GDE-3
 - overview MIG-GD1-19
 - reloading OPR-GDE-8
 - restarting OPR-GDE-8
 - specify global area size MIG-GD1-209
 - wait states OPR-GDE-6
- system interprocessor communication CLS-UGR-504

- system interprocessor communication
 - sipcc function CLS-UGR-504
- system interprocessor communications facility (SICF)
 - support for MIG-GD1-202, MIG-GD2-52
- system interprocessor global table (SIGT)
 - CON-STR-141, INS-PRM-244
- system interprocessor global table (SIGT)
 - changes MIG-GD1-212, MIG-GD1-218
- system interprocessor information
 - alter for DASD IPC MIG-GD1-81
 - changing OPR-GDE-1253
 - display for DASD IPC MIG-GD1-81
 - displaying OPR-GDE-1256
 - ZSIPC ALTER command OPR-GDE-1253
 - ZSIPC DISPLAY command OPR-GDE-1256
- System Interprocessor/Inter—|—Stream Communication
 - macro SYS-MAC-437
- system interrupts MSP-PRM-18
- system interrupts
 - types of MSP-PRM-18
- system loader CON-STR-79
- system loader
 - disk pack creation PDV-PRM-6
- system loading facility APP-GDE-288
- system log trace GIM-26
- system log trace facility
 - branch trace facility MIG-GD1-10
 - debug MIG-GD1-293, MIG-GD1-298
 - enter/back trace facility MIG-GD1-10, MIG-GD1-293, MIG-GD1-299
 - I/O trace facility MIG-GD1-299
 - macro trace facility MIG-GD1-293, MIG-GD1-299
 - options
 - alter MIG-GD1-82
 - branch trace MIG-GD1-10
 - display MIG-GD1-82
 - enter/back trace MIG-GD1-10
 - I/O trace MIG-GD1-10
 - online minidump MIG-GD1-10
 - program event recording (PER) MIG-GD1-10
 - real-time trace (RTT) MIG-GD1-10
 - register and S/370 branch trace MIG-GD1-10
 - SNA I/O trace MIG-GD1-10
 - system trace log MIG-GD1-10
 - turn on and off MIG-GD1-272
 - types MIG-GD1-20
 - ZSTRC command MIG-GD1-272
 - overview MIG-GD1-10, MIG-GD1-295, MIG-GD1-298, MIG-GD1-299
 - problem determination MIG-GD1-293
 - register and S/370 branch trace facility
 - MIG-GD1-293, MIG-GD1-299
 - register trace facility MIG-GD1-295, MIG-GD1-299
 - SNA I/O trace facility MIG-GD1-10, MIG-GD1-293
 - system log trace facility MIG-GD1-10, MIG-GD1-293, MIG-GD1-299
 - vehicle (STV)
 - display MIG-GD1-82
 - pause MIG-GD1-82
 - start MIG-GD1-82
 - stop MIG-GD1-82
- system log trace facility (*continued*)
 - vehicle (STV) (*continued*)
 - system clocks modification MIG-GD1-82
- system macro call (SERRC)
 - migration MIG-GD1-319
 - SERRC data
 - online mini dump trace facility MIG-GD1-294
 - SERRC macro call
 - changes MIG-GD1-229, MIG-GD1-237
 - control dump content MIG-GD1-237
 - default prefix MIG-GD1-238
 - IBM reserved prefixes MIG-GD1-238
 - service code MIG-GD1-238
- System Macros
 - INDEX SYS-MAC-306
 - macros for miscellaneous packages
 - BBEWP SYS-MAC-104
 - BBWRT SYS-MAC-108
 - GROUP SYS-MAC-264
- system maintenance MSP-PRM-47
- system mask SYS-MAC-459
- system mask
 - changing SYS-MAC-58
- system message SNA-PRM-25
- system message processor (CSMP) SNA-PRM-49
- system message
 - edit and send GEN-MAC-559
- System network Interconnect (SNI) Considerations
 - modifying NCP input deck SNA-PRM-233
 - SNI NCP generation deck SNA-PRM-233
 - with APPN considerations SNA-PRM-234
 - with channel-to-channel (CTC) considerations
 - SNA-PRM-234
- system operating state
 - display MIG-GD1-69
- system operating states
 - cycling among OPR-GDE-239
 - cycling
 - disabling OPR-GDE-1132
 - enabling OPR-GDE-1132
 - displaying OPR-GDE-377
 - ZCYCL command OPR-GDE-239
 - ZDSYS command OPR-GDE-377
 - ZPSMS command OPR-GDE-1132
- system ordinal number conversion CLS-UGR-75, GEN-MAC-125
- system performance and measurement package
 - OPR-GDE-1457
- system pools SPM-PRM-28
- system recover table (SRT)
 - entries
 - number of OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- system recovery table (SRT) SNA-PRM-27
- system recovery table (SRT)
 - changes MIG-GD1-252
- system recovery
 - messages MIG-GD1-274
- system reduction reports
 - changes MIG-GD1-288
 - data reduction MIG-GD1-288

- system resources CLS-UGR-306, CLS-UGR-308, GEN-MAC-294
- system resources
 - reclaiming INS-PRM-371
- system restart MSP-PRM-5
- system restart
 - and TPF/APPC SNA-PRM-101
- system service request GIM-28
- system service request
 - enhancements GIM-28
 - macro decoders MIG-GD1-19
 - overview MIG-GD1-19
- system services control point (SSCP) SNA-PRM-14, SNA-PRM-46
- system services control point (SSCP)
 - logical unit (LU)
 - displaying OPR-GDE-946
 - path information unit (PIU)
 - displaying OPR-GDE-1012
 - tracing OPR-GDE-1052
 - ZNDLU command OPR-GDE-946
 - ZNPIU command OPR-GDE-1012
 - ZNTRP command OPR-GDE-1052
- system services request CON-STR-58
- system services
 - record address conversion CON-STR-105
- system shutdown value
 - how to adjust the values MIG-GD1-216
 - initial setting MIG-GD1-216
 - types
 - common blocks MIG-GD1-82
 - ECBs MIG-GD1-82
 - frames MIG-GD1-82
 - IOBs MIG-GD1-82
 - SWBs MIG-GD1-82
- system state CON-STR-35
- system state
 - changes MIG-GD1-231
- system states MSP-PRM-5
- system states
 - changing MSP-PRM-5
- system status
 - display MIG-GD1-82
- system storage PDV-PRM-102
- system summary report AR-USG-99
- system support services
 - changes MIG-GD1-277
 - overview MIG-GD1-277
 - run-time authorization MIG-GD1-278
 - shared storage between ECBs MIG-GD1-277, MIG-GD1-278
- system task dispatcher MSP-PRM-20
- system test APP-GDE-283, APP-GDE-291
- System Test PDV-PRM-14
- system test compiler (STC) APP-GDE-284, INS-PRM-261
- system test compiler (STC)
 - control cards for
 - disk allocation OPR-GDE-1479
 - disk type OPR-GDE-1480
 - end OPR-GDE-1480
- system test compiler (STC) *(continued)*
 - creating a pilot tape OPR-GDE-1477
 - creating a test unit tape OPR-GDE-1477
 - description of OPR-GDE-1477
 - generating a SDMF tape OPR-GDE-1477
 - hardware requirements OPR-GDE-1484
 - input files
 - data record information library (DRIL) OPR-GDE-1477
 - input tape OPR-GDE-1477
 - object library data set OPR-GDE-1478
 - SDMF/DRIL work disk OPR-GDE-1477
 - standard data and message file (SDMF) tape OPR-GDE-1477
 - system allocator table (SALTBL) OPR-GDE-1478
 - JCL for OPR-GDE-1478
 - modify pilot tapes for globals MIG-GD1-215
 - output from OPR-GDE-1483
 - procedures for OPR-GDE-1481
 - setup OPR-GDE-1482
- system test compiler program (STC) CON-STR-148
- system test compiler
 - activation PDV-PRM-53
 - description of PDV-PRM-17
 - file input PDV-PRM-44
 - output PDV-PRM-44
 - with SFDT PDV-PRM-53
- System Test Compiler
 - description of PDV-PRM-1
- system test driver
 - activating OPR-GDE-1339
 - ZTEST command OPR-GDE-1339
- system test terminal simulator APP-GDE-292
- system test terminal simulator (STTS) program PDV-PRM-61
- system test vehicle (STV) mode
 - input for running PTV PDV-PRM-6
- system test vehicle (STV)
 - required input sequence PDV-PRM-11
- system test vehicle
 - ZSTVS CLOCK command OPR-GDE-1319
 - ZSTVS PAUSE command OPR-GDE-1322
 - ZSTVS START command OPR-GDE-1323
 - ZSTVS STOPT command OPR-GDE-1325
- system test
 - selective file dump PDV-PRM-53
- system tests
 - BMP0 tables PDV-PRM-66
 - keyboard lock
 - RESET option PDV-PRM-66
- system time-of-day GEN-MAC-395
- system trace options
 - changing OPR-GDE-1311
 - displaying OPR-GDE-1311
 - ZSTRC command OPR-GDE-1311
- system utilities
 - capture and restore MIG-GD1-277, MIG-GD1-281
 - data collection MIG-GD1-284
 - data reduction MIG-GD1-284
 - database reorganization (DBR) MIG-GD1-277, MIG-GD1-283

system utilities (*continued*)
 real-time tape MIG-GD1-277, MIG-GD1-279
 system utilization CLS-UGR-306, CLS-UGR-308,
 GEN-MAC-294
 system virtual memory MSP-PRM-18
 system virtual memory (SVM) CON-STR-26,
 CON-STR-72, SYS-MAC-84
 system virtual memory (SVM)
 address space MIG-GD1-236
 addresses in VEQR mode MIG-GD1-297
 changing OPR-GDE-1136
 changing
 at a specified address OPR-GDE-51
 at a specified dump label OPR-GDE-60
 control program services MIG-GD1-236
 convert addresses
 EVM to SVM MIG-GD1-236
 SVM to EVM MIG-GD1-236
 description GIM-23
 display core MIG-GD1-67
 displaying
 at a specified address OPR-GDE-293
 at a specified dump label OPR-GDE-299
 macro services MIG-GD1-236
 modify the system error package MIG-GD1-236
 relation to I-stream engine CON-STR-26
 relationship to contiguous storage MIG-GD2-13
 storage layout MIG-GD1-297
 ZACOR command OPR-GDE-51
 ZADCA command OPR-GDE-60
 ZDCOR command OPR-GDE-293
 ZDDCA command OPR-GDE-299
 ZPTCH command OPR-GDE-1136
 system virtual memory
 description of MSP-PRM-18
 layout of APP-GDE-237, CON-STR-73,
 MIG-GD1-215, MSP-PRM-51, SYS-GEN-35
 system work block (SWB) CON-STR-74
 system work block (SWB)
 getting SYS-MAC-278
 releasing SYS-MAC-412
 system work block release SYS-MAC-79
 system work blocks SYS-GEN-230
 system work blocks (SWBs)
 allocate working storage MIG-GD1-203
 changes MIG-GD1-214, MIG-GD1-229,
 MIG-GD1-233, MIG-GD1-235
 get and release MIG-GD1-233, MIG-GD1-278
 minimum percentage required
 changing OPR-GDE-977
 displaying OPR-GDE-977
 non-DASD IOBs MIG-GD1-278
 set for CPU loop shutdown levels MIG-GD1-216
 system shutdown value MIG-GD1-82
 working storage relationship MIG-GD1-214
 ZNKEY command OPR-GDE-977
 system
 1052 state SYS-GEN-23
 activity SPM-PRM-25
 allocation list SYS-GEN-183
 calls, general discussion CLS-UGR-527

system (*continued*)
 clocks SYS-GEN-162
 collection, details SPM-PRM-83
 collection/reduction SPM-PRM-83
 communication keypoints (SCK) SYS-GEN-132
 communication keypoints (SCK)
 communication macros SYS-GEN-133
 generation SYS-GEN-335, SYS-GEN-336
 macro coding SYS-GEN-338, SYS-GEN-342,
 SYS-GEN-343
 SCK/PKST generation package SYS-GEN-138
 data analysis SPM-PRM-11
 definition SYS-GEN-3, SYS-GEN-31
 design SYS-GEN-5
 generation error messages SYS-GEN-349
 generation process SYS-GEN-15
 identification SYS-GEN-31
 initialization package (SIP) SYS-GEN-3,
 SYS-GEN-15, SYS-GEN-16, SYS-GEN-167
 initialization package (SIP)
 clock macros SYS-GEN-32
 communication functions SYS-GEN-16
 communication macros SYS-GEN-126
 hardware requirements SYS-GEN-172
 macro coding SYS-GEN-207
 report, sample SYS-GEN-351
 SIP macro coding SYS-GEN-207
 software SYS-GEN-172
 Stage I SYS-GEN-175
 interprocessing global table SYS-GEN-39
 IPL program SYS-GEN-21
 message processor (SMP) SYS-GEN-148
 message processor (SMP)
 exit routines SYS-GEN-148
 modification facilities SYS-GEN-26
 network architecture (SNA)
 table generation SYS-GEN-139
 performance analysis SPM-PRM-11
 pools summary SPM-PRM-28
 record types SYS-GEN-68
 reduction SPM-PRM-83
 report SPM-PRM-11
 restart SYS-GEN-20
 restart schedule SYS-GEN-21
 restart
 initializer program SYS-GEN-21
 states
 computer console state SYS-GEN-23
 CRAS state SYS-GEN-23
 message switching state SYS-GEN-23
 normal state SYS-GEN-23
 utility state SYS-GEN-23
 support SYS-GEN-141
 test compiler (STC) SYS-GEN-16, SYS-GEN-158
 test compiler (STC)
 DRIL file updates SYS-GEN-158
 SDMF file updates SYS-GEN-158
 utilized record types SYS-GEN-103
 utilized record types
 fixed file SYS-GEN-105
 miscellaneous SYS-GEN-110

system (*continued*)
 utilized record types (*continued*)
 record initialization categories SYS-GEN-104
 virtual memory
 layout of SYS-GEN-35
 work blocks SYS-GEN-42
 Systems Application Architecture (SAA)
 definition of AR-USG-112
 distributed access capability of AR-USG-1
 Systems Network Architecture GIM-16
 systems network architecture (SNA)
 alter
 communications keypoint MIG-GD1-77
 path (alternate to prime) MIG-GD1-75
 printer path (prime to alternate) MIG-GD1-75
 define MIG-GD1-203
 display communications keypoint MIG-GD1-77
 display resource statistics MIG-GD1-77
 display resource status MIG-GD1-77
 load definitions MIG-GD1-81
 load network definitions MIG-GD1-77
 polling resources
 start MIG-GD1-78
 stop MIG-GD1-78
 Systems Network Architecture
 ACF/VTAM GIM-16
 Airline Line Connection Interconnection (ALCI)
 GIM-16
 SYSUT1 data set
 description of ACF-GDE-32
 example ACF-GDE-57
 SYSUT2 data set ACF-GDE-32
 SYSUT3 data set ACF-GDE-32

T

T11 universal character set
 CUAL program OPR-GDE-103
 defining OPR-GDE-103
 loading OPR-GDE-102
 ZAURS LUCS command OPR-GDE-102
 T5 node
 channel-to-channel (CTC) connection MIG-GD1-252
 T5 nodes
 generic names for GIM-26
 table AR-USG-80
 table address for record ID attributes SYS-MAC-407
 table generation
 ACF/SNA MIG-GD1-8, MIG-GD1-210
 FACE MIG-GD1-11
 file address compute program (FACE) MIG-GD1-204
 table of MIB variables CLAWGR-423
 table, cursor APIs CLS-UGR-1113
 table, IP trace CLAWGR-407
 table, non-cursor APIs CLS-UGR-881
 table
 definition of AR-USG-112
 in relational databases AR-USG-27
 tables
 adjacent link station (ALS) MIG-GD1-252
 C function trace table MIG-GD2-118
 CCP branch vector table (BVT) MIG-GD1-259

tables (*continued*)
 chained table MIG-GD1-17
 channel control work (CCW) table MIG-GD1-259
 channel usage table MIG-GD1-279
 CINFC table MIG-GD1-15
 CLH block management table MIG-GD1-237
 CMMGLBTB table MIG-GD1-234
 command table MIG-GD1-61
 cross-subsystem services definition table (CGOT)
 MIG-GD1-217
 device control unit usage table MIG-GD1-279
 dump override table (DOT) MIG-GD1-9,
 MIG-GD1-21, MIG-GD1-51, MIG-GD1-71,
 MIG-GD1-264
 dynamic override bitmap table (DOBT)
 MIG-GD1-238
 ECB activation table MIG-GD1-67
 event table MIG-GD1-11
 file address compute program (FACE) table
 MIG-GD1-11, MIG-GD1-21, MIG-GD1-54,
 MIG-GD1-203, MIG-GD1-212, MIG-GD1-218,
 MIG-GD1-242, MIG-GD1-245, MIG-GD1-246,
 MIG-GD1-247
 for coupling facility record lock support
 DBS-REF-257
 for coupling facility support DBS-REF-247
 hash table MIG-GD1-11, MIG-GD1-17,
 MIG-GD1-226
 internal event facility table MIG-GD1-233
 macro decoder table MIG-GD1-231
 macro information table MIG-GD1-231,
 MIG-GD1-232
 macro tables MIG-GD1-232
 main I-stream SVC table MIG-GD1-160
 MQI trace table MIG-GD2-268, MIG-GD2-269
 network address table (NAT) MIG-GD1-252
 network command status table (NCST) MIG-GD1-77
 page and segment tables MIG-GD1-278
 path information unit (PIU) trace table MIG-GD1-77,
 MIG-GD1-78
 process selection vector (PSV) name table
 MIG-GD1-252
 program allocation table (PAT) MIG-GD1-11,
 MIG-GD1-16, MIG-GD1-19, MIG-GD1-68,
 MIG-GD1-203, MIG-GD1-221, MIG-GD1-224,
 MIG-GD1-268, MIG-GD1-287, MIG-GD2-462
 program sharing table (PST) MIG-GD1-16,
 MIG-GD1-224
 RCAT stop table MIG-GD1-61
 record hold table MIG-GD1-17
 record ID attribute table (RIAT) MIG-GD1-12,
 MIG-GD1-17, MIG-GD1-81, MIG-GD1-218,
 MIG-GD1-284
 resource identifier (RID) table MIG-GD2-191
 resource resolution table (RRT) MIG-GD1-210,
 MIG-GD1-211
 resource vector table (RVT) MIG-GD1-78,
 MIG-GD1-160, MIG-GD1-211, MIG-GD1-252,
 MIG-GD1-287
 routing control application table (RCAT)
 MIG-GD1-68, MIG-GD1-80

tables (continued)

RTT option tables MIG-GD1-234
secondary supervisor call (SVC) table MIG-GD1-69
selective dump address table MIG-GD1-265
selective memory dump table (SMDT) MIG-GD1-9,
MIG-GD1-237, MIG-GD1-238, MIG-GD1-264
side information table MIG-GD1-78
SNA I/O trace table MIG-GD1-18, MIG-GD1-303
SNA tables MIG-GD1-18, MIG-GD1-212,
MIG-GD1-218, MIG-GD1-230, MIG-GD1-251,
MIG-GD1-252
SQL trace table MIG-GD1-82
static override bitmap table (SOBT) MIG-GD1-238
subarea address table (SAT) MIG-GD1-211,
MIG-GD1-252, MIG-GD2-198
supervisor call (SVC) table MIG-GD1-231,
MIG-GD1-234
symbolic device address table (SDAT) MIG-GD1-304
system allocator (SAL) table MIG-GD1-19,
MIG-GD1-161, MIG-GD1-203, MIG-GD1-221,
MIG-GD1-224, MIG-GD1-227
system interprocessor global table (SIGT)
MIG-GD1-212, MIG-GD1-218
system recovery table (SRT) MIG-GD1-252
system tables MIG-GD1-237
tape status table MIG-GD1-84
time slice name table MIG-GD2-249
time-initiated message table MIG-GD1-82
trace control table MIG-GD1-18, MIG-GD1-19,
MIG-GD1-234
universal format type (UFT)/format type indicator
(FTI) conversion table MIG-GD1-242,
MIG-GD1-243
user tables MIG-GD1-230
VTAM interpret tables MIG-GD1-253
tags for CINFC GEN-MAC-67
take away a logical link from an adapter CLAWGR-393
TANCC macro SYS-MAC-473
tape access CLS-UGR-532
tape assignment GEN-MAC-385
tape backspace GEN-MAC-387
tape block header DBS-REF-95
tape block hexadecimal dump
ZDEBB command OPR-GDE-303
ZDEBE command OPR-GDE-307
tape category change INS-PRM-213
tape control CLS-UGR-535
Tape Control macro SYS-MAC-493
tape data transfer SYS-MAC-478, SYS-MAC-481
tape device
adding OPR-GDE-1415
deleting OPR-GDE-1415
displaying status of OPR-GDE-378
filling automatically SYS-GEN-55
printing status of OPR-GDE-1135
status for automatic tape mounting
displaying OPR-GDE-1334
modifying OPR-GDE-1334
ZDTAP command OPR-GDE-378
ZPTAP command OPR-GDE-1135
ZTDEV command OPR-GDE-1334

tape device (continued)

ZTVAR command OPR-GDE-1415
tape groups
defining OPR-GDE-1340
deleting OPR-GDE-1340
displaying OPR-GDE-1340
ZTGRP command OPR-GDE-1340
tape hardware error condition GEN-MAC-19
tape I/O APP-GDE-152
tape label
assigning to tape group OPR-GDE-1347
changing OPR-GDE-1347
creating OPR-GDE-1347
deleting OPR-GDE-1347
displaying OPR-GDE-389
records
activating OPR-GDE-1351
deactivating OPR-GDE-1351
initializing OPR-GDE-1351
ZDTLB command OPR-GDE-389
ZTLBL command OPR-GDE-1347
ZTLMR command OPR-GDE-1351
tape labeling and multivolume operations GEN-MAC-21
tape libraries
types MIG-GD1-186, MIG-GD2-36
tape library category
default SYS-GEN-54
displaying status of OPR-GDE-1368
loading tapes continuously OPR-GDE-1364
reassigning OPR-GDE-1367
releasing OPR-GDE-1371
reserving OPR-GDE-1372
unloading a tape in OPR-GDE-1373
ZTPLF FILL command OPR-GDE-1364
ZTPLF MOVE command OPR-GDE-1367
ZTPLF QUERY command OPR-GDE-1368
ZTPLF RELEASE command OPR-GDE-1371
ZTPLF RESERVE command OPR-GDE-1372
ZTPLF UNLOAD command OPR-GDE-1373
tape macros GEN-MAC-16
tape management functions
tape_close CLS-UGR-534
tape_cntl CLS-UGR-535
tape_open CLS-UGR-537
tape_read CLS-UGR-538
tape_write CLS-UGR-540
tasnc CLS-UGR-541
tbspc CLS-UGR-542
tcisc CLS-UGR-544
tdsps_q CLS-UGR-546
tdsps CLS-UGR-545
topnc CLS-UGR-556
tourc CLS-UGR-557
toutc CLS-UGR-558
tprdc CLS-UGR-641
trewc CLS-UGR-643
trsvc CLS-UGR-644
tsync CLS-UGR-645
twrtc CLS-UGR-646
tape names PSM-GDE-23
tape names, reserved OPR-GDE-18

- tape open GEN-MAC-406
- tape operation interface SYS-MAC-495
- tape operations GEN-MAC-20
- tape operations
 - setting logical write protect SYS-GEN-54
- tape queue length display CLS-UGR-546
- tape queue time-out value
 - changing OPR-GDE-231
 - displaying OPR-GDE-236
 - ZCTKA ALTER command OPR-GDE-231
 - ZCTKA DISPLAY command OPR-GDE-236
- tape read GEN-MAC-484
- tape record migration
 - API changes MIG-GD2-697
 - architecture MIG-GD2-690
 - C/C++ language MIG-GD2-691
 - CINFC tags MIG-GD2-692
 - commands MIG-GD2-695
 - CONKC tags MIG-GD2-692
 - copy members MIG-GD2-692
 - database changes MIG-GD2-697
 - feature changes MIG-GD2-697
 - fixed file records MIG-GD2-692
 - functional changes MIG-GD2-695
 - functional overview MIG-GD2-690
 - host system changes MIG-GD2-697
 - installation validation MIG-GD2-697
 - interfaces MIG-GD2-691
 - loading process MIG-GD2-696
 - macros MIG-GD2-692
 - migration scenarios MIG-GD2-697
 - offline messages MIG-GD2-695
 - online messages MIG-GD2-695
 - online system load MIG-GD2-696
 - operating environment requirements MIG-GD2-691
 - operational changes MIG-GD2-695
 - overview MIG-GD2-18, MIG-GD2-690
 - performance changes MIG-GD2-696
 - planning information MIG-GD2-691
 - prerequisite APARs MIG-GD2-690
 - publication changes MIG-GD2-697
 - segments MIG-GD2-694
 - SIP changes MIG-GD2-696
 - storage changes MIG-GD2-696
 - storage considerations MIG-GD2-696
 - system equates MIG-GD2-695
 - system errors MIG-GD2-695
 - system generation changes MIG-GD2-696
 - tuning changes MIG-GD2-696
 - user exits MIG-GD2-695
- tape record write GEN-MAC-409, GEN-MAC-411, GEN-MAC-492
- tape requirements
 - input for running PTV PDV-PRM-12
- tape reserve GEN-MAC-488
- tape rewind GEN-MAC-486
- tape status display CLS-UGR-545, GEN-MAC-392
- tape status table (TSTB) CON-STR-91
- tape status table (TSTB)
 - displaying entries OPR-GDE-1394
 - ZTSTB command OPR-GDE-1394
- tape status
 - displaying OPR-GDE-378
 - printing OPR-GDE-1135
 - ZDTAP command OPR-GDE-378
 - ZPTAP command OPR-GDE-1135
- tape support APP-GDE-267
- tape support functions
 - assign and reserve APP-GDE-270
 - general tape
 - tape_close function APP-GDE-269, APP-GDE-271
 - tape_cntl function APP-GDE-271
 - tape_open function APP-GDE-269, APP-GDE-271
 - tape_read function APP-GDE-270, APP-GDE-271
 - tape_write function APP-GDE-270, APP-GDE-271
 - tasnc function APP-GDE-271
 - tbspc function APP-GDE-271
 - tc1sc function APP-GDE-269, APP-GDE-271
 - tdspc_q function APP-GDE-272
 - tdspc function APP-GDE-272
 - topnc function APP-GDE-269, APP-GDE-272
 - tprdc function APP-GDE-270, APP-GDE-272
 - trewc function APP-GDE-272
 - trsvc function APP-GDE-272
 - tsync function APP-GDE-270
 - twrtc function APP-GDE-270, APP-GDE-272
 - real-time
 - tourc function APP-GDE-268
 - toutc function APP-GDE-267
- tape support macros
 - general tape
 - tsync function APP-GDE-272
 - TPCNC macro APP-GDE-272
- tape support
 - automatic tape mounting GIM-27
 - group names GIM-27
 - lost interrupts GIM-27
 - lost tape interrupts GIM-27
 - stalled module queues GIM-27
 - stalled tape module queues GIM-27
 - ZDEBB command OPR-GDE-303
 - ZDEBE command OPR-GDE-307
 - ZDTAP command OPR-GDE-378
 - ZDTLB command OPR-GDE-389
 - ZPTAP command OPR-GDE-1135
 - ZTDEV command OPR-GDE-1334
 - ZTGRP command OPR-GDE-1340
 - ZTICL command OPR-GDE-1344
 - ZTINT command OPR-GDE-1345
 - ZTLBL command OPR-GDE-1347
 - ZTLMR command OPR-GDE-1351
 - ZTMNT command OPR-GDE-1353
 - ZTOCU command OPR-GDE-1359
 - ZTOFF command OPR-GDE-1360
 - ZTPLF FILL command OPR-GDE-1364
 - ZTPLF LOAD command OPR-GDE-1366
 - ZTPLF MOVE command OPR-GDE-1367
 - ZTPLF QUERY command OPR-GDE-1368
 - ZTPLF RELEASE command OPR-GDE-1371
 - ZTPLF RESERVE command OPR-GDE-1372

- tape support *(continued)*
 - ZTPLF UNLOAD command OPR-GDE-1373
 - ZTPSW command OPR-GDE-1375
 - ZTRMT command OPR-GDE-1389
 - ZTSTB command OPR-GDE-1394
 - ZTVAR command OPR-GDE-1415
 - ZTWTM command OPR-GDE-1417
- tape switch initiation SYS-MAC-495
- tape synchronization GEN-MAC-490
- tape time calculation DBS-REF-70
- tape units
 - types MIG-GD1-186, MIG-GD2-36
- tape update utility
 - channel usage table MIG-GD1-279
 - description MIG-GD1-279
 - device control unit usage table MIG-GD1-279
- tape volume estimate DBS-REF-72
- tape volume validation INS-PRM-213
- tape, logging DBS-REF-98
- tape, magnetic CON-STR-90
- tape, magnetic
 - general tape CON-STR-91
 - real-time tape CON-STR-90
 - symbolic addressing CON-STR-91
- tape
 - 3590 support MIG-GD2-34
 - addressing OPR-GDE-18
 - alternate (ALT) MIG-GD1-20
 - automatic mounting GIM-27, MIG-GD1-69, MIG-GD1-280
 - automatic mounting
 - description OPR-GDE-19
 - buffer SYS-GEN-54
 - changes MIG-GD1-280
 - configuration SYS-GEN-52
 - control unit cross reference table (COSY)
 - SYS-GEN-53, SYS-GEN-264, SYS-GEN-494
 - DBL tape OPR-GDE-303, OPR-GDE-307
 - device status
 - by logical control unit MIG-GD1-83
 - modify MIG-GD1-83
 - devices SYS-GEN-53
 - dismount MIG-GD1-83
 - dismount
 - by logical control unit MIG-GD1-83
 - display MIG-GD1-83
 - dismounting OPR-GDE-1360
 - dismounting by logical control unit OPR-GDE-1359
 - display label of OPR-GDE-389
 - displaying OPR-GDE-303, OPR-GDE-307
 - displaying status of OPR-GDE-378
 - drives SYS-GEN-52
 - dumps MIG-GD1-261
 - emergency removal OPR-GDE-1344
 - group
 - assign a tape device MIG-GD1-83
 - define for automatic tape mounting MIG-GD1-83
 - delete for automatic tape mounting MIG-GD1-83
 - display for automatic tape mounting MIG-GD1-83
 - names MIG-GD1-281
 - unassign a tape device MIG-GD1-83

- tape *(continued)*
 - IBM 3590 control unit MIG-GD2-34
 - initializing OPR-GDE-1345
 - IOB changes MIG-GD1-214
 - JDCD tape MIG-GD1-285
 - label
 - assign to tape groups MIG-GD1-83
 - maintenance MIG-GD1-83
 - record initialization MIG-GD1-83
 - load program data MIG-GD1-83
 - loading OPR-GDE-1366
 - loading all in tape library category OPR-GDE-1364
 - lost interrupt detection MIG-GD1-281
 - manual switch MIG-GD1-83
 - mounting OPR-GDE-1353
 - mounting
 - active output tapes MIG-GD1-83
 - automatic MIG-GD1-8, MIG-GD1-69, MIG-GD1-83
 - capture and restore MIG-GD1-281
 - define tape groups MIG-GD1-83
 - delete tape groups MIG-GD1-83
 - description MIG-GD1-280
 - determine automatic tape mounting MIG-GD1-281
 - display tape groups MIG-GD1-83
 - lost interrupt detection MIG-GD1-281
 - standby output tapes MIG-GD1-83
 - multiple-volume tape dumps MIG-GD1-261
 - overview MIG-GD1-20
 - pilot tape MIG-GD1-215, MIG-GD1-251
 - planning SYS-GEN-52
 - printing OPR-GDE-303, OPR-GDE-307
 - printing status of OPR-GDE-1135
 - processing
 - post processing MIG-GD1-261
 - reconfiguration MIG-GD1-84
 - remount MIG-GD1-83
 - remounting OPR-GDE-1389
 - removal
 - for emergencies MIG-GD1-83
 - initialize MIG-GD1-83
 - requirements SYS-GEN-53
 - rewind MIG-GD1-83
 - rewinding OPR-GDE-303, OPR-GDE-307, OPR-GDE-1360
 - RTC tape MIG-GD1-285
 - searching OPR-GDE-303, OPR-GDE-307
 - spacing
 - backward OPR-GDE-303, OPR-GDE-307
 - forward OPR-GDE-303, OPR-GDE-307
 - stalled module queues MIG-GD1-281
 - switching OPR-GDE-1375
 - symbolic names OPR-GDE-18
 - system allocator (SAL) tape MIG-GD1-19
 - tape block hexadecimal dump OPR-GDE-303, OPR-GDE-307
 - tape group name OPR-GDE-19
 - unload MIG-GD1-83
 - unloading OPR-GDE-303, OPR-GDE-307, OPR-GDE-1360
 - ZDEBB command OPR-GDE-303

tape *(continued)*

- ZDEBE command OPR-GDE-307
- ZDTAP command OPR-GDE-378
- ZDTLB command OPR-GDE-389
- ZPTAP command OPR-GDE-1135
- ZTICL command OPR-GDE-1344
- ZTINT command OPR-GDE-1345
- ZTMNT command OPR-GDE-1353
- ZTOCU command OPR-GDE-1359
- ZTOFF command OPR-GDE-1360
- ZTPLF FILL command OPR-GDE-1364
- ZTPLF LOAD command OPR-GDE-1366
- ZTPSW command OPR-GDE-1375
- ZTRMT command OPR-GDE-1389

tapemarks

- writing OPR-GDE-1417
- ZTWTM command OPR-GDE-1417

tapes

- multiple, for dumps GIM-27

TARGET(TPF) C Language Support Epilog macro
SYS-MAC-283

TARGET(TPF) C Language Support Prolog macro
SYS-MAC-286

TARGET(TPF) migration GEN-MAC-399

TASBC macro SYS-MAC-475

task communication area (TCA) PDV-PRM-133

Task Communications Area (TSA) GEN-MAC-402

task dispatching MSP-PRM-20

task, dispatching CLS-UGR-1339

tasks GIM-31

tasks

- planning GIM-31

TASNC macro GEN-MAC-385

TASTC macro SYS-MAC-476

TBSPC macro GEN-MAC-387

TC (tightly coupled)

- See tightly coupled (TC)

TCA PDV-PRM-133

TCA (Task Communications Area) GEN-MAC-402

TCB ID (transaction control block identifier)

- SNA-PRM-67

TCIDs SNA-PRM-134

TCLAC macro SYS-MAC-477

TCLSC GEN-MAC-17

TCLSC macro GEN-MAC-390

TCP session, sample

- function calls CLAWGR-127

TCP, sample client code CLAWGR-373

TCP, sample server code CLAWGR-371

TCP/IP commands

- ZCLAW ACTIVATE CLAWGR-30

- ZCLAW ADD CLAWGR-29

- ZCLAW DELETE CLAWGR-31

- ZCLAW DISPLAY CLAWGR-31

- ZCLAW INACTIVATE CLAWGR-30

- ZCLAW RESET CLAWGR-33

- ZCLAW TRACE CLAWGR-32, CLAWGR-33

- ZOSAE CLAWGR-63, CLAWGR-64, CLAWGR-65,

- CLAWGR-67, CLAWGR-68

- ZTTCP DISPLAY CLAWGR-67

TCP/IP commands *(continued)*

- ZVIPA CLAWGR-65, CLAWGR-68, CLAWGR-69,
CLAWGR-70, CLAWGR-71

TCP/IP communication

- operating environment MIG-GD1-198, MIG-GD2-48

TCP/IP communications keypoint

- keypoint record 2 (CTK2) MSP-PRM-13,
OPR-GDE-14, SYS-GEN-75

TCP/IP components

- socket/CLAW interfaces CLAWGR-16

TCP/IP enhancements for PUT 14

- API changes MIG-GD2-972

- architecture MIG-GD2-960

- C/C++ language MIG-GD2-961

- CINFC tags MIG-GD2-963

- commands MIG-GD2-968

- CONKC tags MIG-GD2-963

- copy members MIG-GD2-963

- database changes MIG-GD2-972

- feature changes MIG-GD2-972

- fixed file records MIG-GD2-964

- functional changes MIG-GD2-968

- functional overview MIG-GD2-960

- hardware MIG-GD2-961

- host system changes MIG-GD2-972

- installation validation MIG-GD2-972

- interfaces MIG-GD2-961

- loading process MIG-GD2-970

- macros MIG-GD2-964

- migration scenarios MIG-GD2-972

- offline messages MIG-GD2-969

- online messages MIG-GD2-969

- online system load MIG-GD2-970

- operating environment requirements MIG-GD2-961

- operational changes MIG-GD2-968

- overview MIG-GD2-960

- performance changes MIG-GD2-970

- planning information MIG-GD2-961

- prerequisite APARs MIG-GD2-960

- publication changes MIG-GD2-970

- segments MIG-GD2-966

- SIP changes MIG-GD2-970

- software (programming requirements) MIG-GD2-961

- storage changes MIG-GD2-970

- storage considerations MIG-GD2-970

- system equates MIG-GD2-968

- system errors MIG-GD2-969

- system generation changes MIG-GD2-970

- tuning changes MIG-GD2-970

- user exits MIG-GD2-968

TCP/IP enhancements for PUT 15

- API changes MIG-GD2-1102

- architecture MIG-GD2-1095

- C/C++ language MIG-GD2-1095

- CINFC tags MIG-GD2-1097

- commands MIG-GD2-1100

- CONKC tags MIG-GD2-1097

- copy members MIG-GD2-1097

- database changes MIG-GD2-1102

- feature changes MIG-GD2-1102

- fixed file records MIG-GD2-1097

TCP/IP enhancements for PUT 15 *(continued)*

- functional changes MIG-GD2-1099
- functional overview MIG-GD2-1094
- hardware MIG-GD2-1095
- host system changes MIG-GD2-1102
- installation validation MIG-GD2-1102
- interfaces MIG-GD2-1095
- loading process MIG-GD2-1101
- macros MIG-GD2-1098
- migration scenarios MIG-GD2-1103
- offline messages MIG-GD2-1100
- online messages MIG-GD2-1100
- online system load MIG-GD2-1101
- operating environment requirements MIG-GD2-1095
- operational changes MIG-GD2-1099
- overview MIG-GD2-1094
- performance changes MIG-GD2-1100
- planning information MIG-GD2-1095
- prerequisite APARs MIG-GD2-1094
- publication changes MIG-GD2-1101
- segments MIG-GD2-1099
- SIP changes MIG-GD2-1101
- software (programming requirements) MIG-GD2-1095
- storage changes MIG-GD2-1101
- storage considerations MIG-GD2-1101
- system equates MIG-GD2-1099
- system errors MIG-GD2-1100
- system generation changes MIG-GD2-1101
- tuning changes MIG-GD2-1100
- user exits MIG-GD2-1099

TCP/IP enhancements for PUT 16

- API changes MIG-GD2-1228
- architecture MIG-GD2-1217
- C/C++ language MIG-GD2-1217
- CINFC tags MIG-GD2-1221
- commands MIG-GD2-1225
- CONKC tags MIG-GD2-1221
- copy members MIG-GD2-1221
- database changes MIG-GD2-1228
- Fast TCP retransmit support MIG-GD2-1216
- feature changes MIG-GD2-1228
- fixed file records MIG-GD2-1222
- functional changes MIG-GD2-1225
- functional overview MIG-GD2-1216
- host system changes MIG-GD2-1228
- installation validation MIG-GD2-1228
- interfaces MIG-GD2-1217
- loading process MIG-GD2-1227
- macros MIG-GD2-1222
- migration scenarios MIG-GD2-1228
- offline messages MIG-GD2-1225
- online messages MIG-GD2-1225
- online system load MIG-GD2-1227
- operating environment requirements MIG-GD2-1217
- operational changes MIG-GD2-1225
- overview MIG-GD2-1216
- performance changes MIG-GD2-1226
- planning information MIG-GD2-1217
- prerequisite APARs MIG-GD2-1216
- publication changes MIG-GD2-1227

TCP/IP enhancements for PUT 16 *(continued)*

- segments MIG-GD2-1223
- SIP changes MIG-GD2-1227
- SNMP MIB display support MIG-GD2-1216
- storage changes MIG-GD2-1227
- storage considerations MIG-GD2-1227
- system equates MIG-GD2-1224
- system errors MIG-GD2-1225
- system generation changes MIG-GD2-1227
- TCP/IP network services database support MIG-GD2-1216
- TCP/IP packet filtering firewall support MIG-GD2-1216
- tuning changes MIG-GD2-1226
- user exits MIG-GD2-1224

TCP/IP layers CLAWGR-39

TCP/IP message summary report SPM-PRM-78

TCP/IP native stack support

- activate_on_accept API CLAWGR-82
- activating and deactivating CDLC IP routers CLAWGR-65
- activating and deactivating OSA-Express connections CLAWGR-67
- API changes MIG-GD2-643
- architecture MIG-GD2-627
- balancing workloads with movable VIPAs CLAWGR-69
- C/C++ language MIG-GD2-629
- CDLC IP CCW area table CLAWGR-52
- CDLC IP configuration record CLAWGR-51
- CINFC tags MIG-GD2-633
- commands MIG-GD2-639
- components of CLAWGR-44
- configuring a TPF system CLAWGR-59
- CONKC tags MIG-GD2-633
- converting resource information OPR-GDE-1266
- copy members MIG-GD2-633
- data flow CLAWGR-41
- database changes MIG-GD2-644
- deactivating sockets CLAWGR-77
- default local IP address CLAWGR-61
- defining
 - CDLC IP CCW area table resources CLAWGR-52
 - CDLC IP network configurations CLAWGR-52
 - CDLC IP routers CLAWGR-65
 - CDLC local IP addresses CLAWGR-62
 - gateways CLAWGR-58
 - IP message table CLAWGR-54
 - IP routing table CLAWGR-54
 - local IP addresses CLAWGR-60
 - OSA read buffers CLAWGR-53
 - OSA-Express cards CLAWGR-66
 - OSA-Express connections CLAWGR-67
 - real OSA IP addresses CLAWGR-63
 - routing table entries for SNMP CLAWGR-99
 - SNMP agent server CLAWGR-98
 - socket block table CLAWGR-51
 - TPF system to SNMP CLAWGR-99
 - VIPAs CLAWGR-64
- deleting
 - CDLC IP routers CLAWGR-66

TCP/IP native stack support *(continued)*

- deleting *(continued)*
 - CDLC local IP addresses CLAWGR-62
 - OSA-Express connections CLAWGR-67
 - real OSA IP addresses CLAWGR-63
 - VIPAs CLAWGR-65
- denial-of-service attacks CLAWGR-105
- differentiated services CLAWGR-111
- displaying control block information OPR-GDE-1266
- displaying resource statistics for OPR-GDE-1406
- displaying socket summary table OPR-GDE-1266
- displaying
 - individual IP trace tables CLAWGR-77
 - IP trace information CLAWGR-75
 - OSA-Express connections CLAWGR-67
 - socket control block information CLAWGR-78
 - TCP/IP native stack support CLAWGR-75
 - VIPA statistics CLAWGR-69
 - VIPAs CLAWGR-65
- enabling TCP/IP native stack support CLAWGR-60
- feature changes MIG-GD2-644
- fixed file records MIG-GD2-634
- functional changes MIG-GD2-639
- functional overview MIG-GD2-626
- hardware MIG-GD2-629
- host system changes MIG-GD2-643
- inactivating resources OPR-GDE-1266
- inbound message flow CLAWGR-48
- installation validation MIG-GD2-644
- installation with SNMP CLAWGR-96
- interfaces MIG-GD2-629
- internals CLAWGR-39
- Internet Protocol (IP) router
 - activating OPR-GDE-1396
 - changing local IP address for OPR-GDE-1398
 - deactivating OPR-GDE-1411
 - defining OPR-GDE-1402
 - deleting OPR-GDE-1404
 - displaying information about OPR-GDE-1406
- Internet Protocol (IP) routing table
 - adding entries OPR-GDE-1390
 - changing OPR-GDE-978
 - changing entries OPR-GDE-1390
 - deleting entries OPR-GDE-1390
 - displaying OPR-GDE-978, OPR-GDE-1390
 - displaying statistics OPR-GDE-1390
- Internet Protocol (IP) trace table
 - displaying OPR-GDE-661, OPR-GDE-668
 - initializing OPR-GDE-668
- Internet Protocol (IP) trace
 - starting OPR-GDE-1413
 - stopping OPR-GDE-1413
- Internet security CLAWGR-105
- IP routers, configuration characteristics CLAWGR-41
- IP routing table CLAWGR-54
- IPMT size
 - displaying OPR-GDE-977
- loading process MIG-GD2-643
- local Internet Protocol (IP) address
 - changing OPR-GDE-1398
 - defining OPR-GDE-1402

TCP/IP native stack support *(continued)*

- local Internet Protocol (IP) address *(continued)*
 - deleting OPR-GDE-1404
 - displaying OPR-GDE-1406
- local sockets CLAWGR-82
- low-water marks CLAWGR-81
- macros MIG-GD2-634
- maximum IP routers
 - displaying OPR-GDE-978
- maximum number of individual IP traces
 - displaying OPR-GDE-977
- maximum packet size CLAWGR-61
- maximum packet size
 - changing OPR-GDE-1398
- maximum sockets
 - displaying OPR-GDE-979
- migration scenarios MIG-GD2-644
- moving VIPAs to another processor OPR-GDE-1430
- network priority
 - displaying OPR-GDE-977
- network services database
 - refreshing OPR-GDE-667
- new sock options supported CLAWGR-80
- number of read buffers
 - displaying OPR-GDE-977, OPR-GDE-979
- offline messages MIG-GD2-639
- online messages MIG-GD2-639
- online system load MIG-GD2-643
- operating environment requirements MIG-GD2-629
- operational changes MIG-GD2-639
- operator procedures CLAWGR-59
- OSA-Express card, configuration characteristics CLAWGR-43
- outbound message flow CLAWGR-46
- overview MIG-GD2-626
- packet filtering CLAWGR-105
- packet filtering rules
 - displaying OPR-GDE-552
 - refreshing OPR-GDE-552
- performance CLAWGR-56
- performance changes MIG-GD2-642
- planning information MIG-GD2-629
- policy agent CLAWGR-46
- prerequisite APARs MIG-GD2-626
- publication changes MIG-GD2-643
- refresh SNMP configuration file OPR-GDE-1263
- restricted CDLC IP address CLAWGR-63
- sample networks CLAWGR-41
- segments MIG-GD2-636
- select TCP/IP support user exit CLAWGR-124
- send and receive buffer sizes CLAWGR-80
- sharing sockets CLAWGR-79
- SIP changes MIG-GD2-643
- size of individual IP trace table
 - displaying OPR-GDE-977
- size of read buffer
 - displaying OPR-GDE-977
- SNMP agent support CLAWGR-85
- SNMP configuration file refresh OPR-GDE-1263
- socket application design considerations CLAWGR-79

TCP/IP native stack support *(continued)*
 socket block table structure CLAWGR-51
 socket cycle-up CLAWGR-124
 software (programming requirements) MIG-GD2-629
 starting and stopping the IP trace function
 CLAWGR-75
 storage changes MIG-GD2-643
 storage considerations MIG-GD2-643
 system equates MIG-GD2-638
 system errors MIG-GD2-639
 system generation changes MIG-GD2-643
 TCP/IP layers CLAWGR-39
 TCP/IP native stack support accept connection user
 exit CLAWGR-124
 TCP/IP network services database support
 CLAWGR-111
 TCP/IP statistics
 clearing OPR-GDE-1400
 timeouts CLAWGR-81
 TPF control block structures CLAWGR-51
 tuning changes MIG-GD2-642
 tuning major control block structures CLAWGR-55
 tuning the IP network CLAWGR-55
 tuning the IP over CDLC link layer CLAWGR-55
 user exits MIG-GD2-638
 using existing sockets applications CLAWGR-79
 using individual IP trace support CLAWGR-59
 virtual IP addresses (VIPAs) OPR-GDE-1430
 with individual IP trace support CLAWGR-76
 workload balancing with movable VIPAs
 CLAWGR-69
 ZFILT command OPR-GDE-552
 ZINIP command OPR-GDE-661
 ZIPDB command OPR-GDE-667
 ZIPTR command OPR-GDE-668
 ZNKEY command OPR-GDE-977, OPR-GDE-978,
 OPR-GDE-979
 ZOSAE command OPR-GDE-1104
 ZSNMP command OPR-GDE-1263
 ZSOCK command OPR-GDE-1266
 ZTRTE command OPR-GDE-1390
 ZTTCP ACTIVATE command OPR-GDE-1396
 ZTTCP CHANGE command OPR-GDE-1398
 ZTTCP CLEAR command OPR-GDE-1400
 ZTTCP DEFINE command OPR-GDE-1402
 ZTTCP DELETE command OPR-GDE-1404
 ZTTCP DISPLAY command OPR-GDE-1406
 ZTTCP INACTIVATE command OPR-GDE-1411
 ZTTCP TRACE command OPR-GDE-1413
 ZVIPA command OPR-GDE-1430

TCP/IP native stack
 invoking the common service routine SYS-MAC-324

TCP/IP network services database
 /etc/services file CLAWGR-113
 tpf_tcpip_message_cnt CLS-UGR-635
 data collection and reduction CLAWGR-112
 differentiated services CLAWGR-111
 message counters CLAWGR-112
 network priority CLAWGR-111
 network services database file CLAWGR-113
 overview CLAWGR-111

TCP/IP network services database *(continued)*
 quality of service (QoS) CLAWGR-111
 refreshing OPR-GDE-667
 type of service (TOS) CLAWGR-111
 update message counters CLS-UGR-635
 ZIPDB command OPR-GDE-667

TCP/IP network
 communication CLAWGR-11
 configuration CLAWGR-11
 description of a sample CLAWGR-13
 offload device CLAWGR-11
 TCP/IP offload device CLAWGR-11

TCP/IP offload support
 CLAW adapters
 current value OPR-GDE-973
 CLAW host name
 defining OPR-GDE-209
 displaying OPR-GDE-213
 CLAW trace function
 starting OPR-GDE-220
 status of, displaying OPR-GDE-220
 stopping OPR-GDE-220
 writing to tape OPR-GDE-220
 CLAW workstations
 activating OPR-GDE-207
 deactivating OPR-GDE-215
 defining OPR-GDE-209
 deleting OPR-GDE-211
 displaying OPR-GDE-213, OPR-GDE-218
 traffic load status OPR-GDE-218
 command lock
 resetting OPR-GDE-217
 file descriptors
 current value OPR-GDE-973
 local Internet Protocol (IP) addresses
 current value OPR-GDE-973
 status information
 displaying OPR-GDE-218
 traffic load status
 displaying OPR-GDE-218
 ZCLAW ACTIVATE command OPR-GDE-207
 ZCLAW ADD command OPR-GDE-209
 ZCLAW command lock
 resetting OPR-GDE-217
 ZCLAW DELETE command OPR-GDE-211
 ZCLAW DISPLAY command OPR-GDE-213
 ZCLAW INACTIVATE command OPR-GDE-215
 ZCLAW RESET command OPR-GDE-217
 ZCLAW STATUS command OPR-GDE-218
 ZCLAW TRACE command OPR-GDE-220
 ZNKEY command OPR-GDE-973

TCP/IP operator procedures
 activating CLAW workstations CLAWGR-30
 changing hardware CLAWGR-32
 configuring a TPF system CLAWGR-29
 data trace CLAWGR-32
 deactivating CLAW workstations CLAWGR-30
 defining CLAW workstations CLAWGR-29
 defining the CLAW host name CLAWGR-29
 deleting a CLAW workstation CLAWGR-31
 displaying TCP/IP information CLAWGR-31

TCP/IP operator procedures *(continued)*
 moving a CLAW workstation CLAWGR-31
 process trace CLAWGR-33
 resetting message lock CLAWGR-33

TCP/IP PUT 12 enhancements
 API changes MIG-GD2-742
 architecture MIG-GD2-735
 C/C++ language MIG-GD2-735
 CINFC tags MIG-GD2-736
 commnds MIG-GD2-739
 CONKC tags MIG-GD2-736
 copy members MIG-GD2-736
 database changes MIG-GD2-742
 feature changes MIG-GD2-742
 fixed file records MIG-GD2-737
 functional changes MIG-GD2-739
 functional overview MIG-GD2-734
 host system changes MIG-GD2-742
 installation validation MIG-GD2-743
 interfaces MIG-GD2-735
 loading process MIG-GD2-742
 macros MIG-GD2-737
 migration scenarios MIG-GD2-743
 offline messages MIG-GD2-740
 online messages MIG-GD2-740
 online system load MIG-GD2-742
 operating environment requirements MIG-GD2-735
 operational changes MIG-GD2-739
 overview MIG-GD2-734
 performance changes MIG-GD2-741
 planning information MIG-GD2-735
 prerequisite APARs MIG-GD2-734
 publication changes MIG-GD2-742
 segments MIG-GD2-738
 SIP changes MIG-GD2-742
 storage changes MIG-GD2-741
 storage considerations MIG-GD2-741
 system equates MIG-GD2-739
 system errors MIG-GD2-740
 system generation changes MIG-GD2-742
 tuning changes MIG-GD2-741
 user exits MIG-GD2-739

TCP/IP requirements for TPFAR AR-USG-15

TCP/IP requirements for TPFAR
 MAXSOCK AR-USG-15

TCP/IP resource management
 API changes MIG-GD2-341
 architecture MIG-GD2-333
 C/C++ language MIG-GD2-334
 CINFC tags MIG-GD2-337
 commands MIG-GD2-339
 CONKC tags MIG-GD2-337
 copy members MIG-GD2-337
 data collection support MIG-GD2-333,
 MIG-GD2-334
 database changes MIG-GD2-341
 feature changes MIG-GD2-341
 fixed file records MIG-GD2-337
 functional changes MIG-GD2-339
 functional overview MIG-GD2-333
 host system changes MIG-GD2-341

TCP/IP resource management *(continued)*
 installation validation MIG-GD2-341
 interfaces MIG-GD2-334
 loading process MIG-GD2-340
 macros MIG-GD2-337
 migration scenarios MIG-GD2-341
 offline messages MIG-GD2-340
 online messages MIG-GD2-340
 online system load MIG-GD2-340
 operating environment requirements MIG-GD2-334
 operational changes MIG-GD2-339
 overview MIG-GD2-333
 performance changes MIG-GD2-340
 planning information MIG-GD2-334
 prerequisite APARs MIG-GD2-333
 publication changes MIG-GD2-340
 segments MIG-GD2-339
 SIP changes MIG-GD2-340
 socket subsystem support MIG-GD2-333,
 MIG-GD2-334
 socket sweeper program MIG-GD2-333
 storage changes MIG-GD2-340
 storage considerations MIG-GD2-340
 system equates MIG-GD2-339
 system errors MIG-GD2-340
 system generation changes MIG-GD2-340
 tuning changes MIG-GD2-340
 user exits MIG-GD2-339

TCP/IP restricted C functions: reference CLAWGR-385

TCP/IP restricted C functions
 CLAW functions CLAWGR-385
 reference CLAWGR-385

TCP/IP statistics
 clearing OPR-GDE-1400
 ZTTCP CLEAR command OPR-GDE-1400

TCP/IP support SYS-GEN-8

TCP/IP Support for the TPF Application Requester
 overview MIG-GD2-30

TCP/IP support for TPFAR
 API changes MIG-GD2-732
 architecture MIG-GD2-725
 C/C++ language MIG-GD2-726
 CINFC tags MIG-GD2-727
 commands MIG-GD2-730
 CONKC tags MIG-GD2-727
 copy members MIG-GD2-727
 database changes MIG-GD2-732
 feature changes MIG-GD2-732
 fixed file records MIG-GD2-727
 functional changes MIG-GD2-730
 functional overview MIG-GD2-725
 host system changes MIG-GD2-732
 installation validation MIG-GD2-732
 interfaces MIG-GD2-726
 loading process MIG-GD2-731
 macros MIG-GD2-727
 migration scenarios MIG-GD2-732
 offline messages MIG-GD2-730
 online messages MIG-GD2-730
 online system load MIG-GD2-731
 operating environment requirements MIG-GD2-726

TCP/IP support for TPFAR (*continued*)
 operational changes MIG-GD2-730
 overview MIG-GD2-725
 performance changes MIG-GD2-731
 planning information MIG-GD2-726
 prerequisite APARs MIG-GD2-725
 publication changes MIG-GD2-731
 segments MIG-GD2-729
 SIP changes MIG-GD2-731
 storage changes MIG-GD2-731
 storage considerations MIG-GD2-731
 system equates MIG-GD2-729
 system errors MIG-GD2-730
 system generation changes MIG-GD2-731
 tuning changes MIG-GD2-731
 user exits MIG-GD2-730

TCP/IP support

- activating
 - CLAW workstations OPR-GDE-207
 - IP routers OPR-GDE-1396
 - OSA-Express connections OPR-GDE-1396
- API changes MIG-GD2-239, MIG-GD2-266
- architecture MIG-GD2-221, MIG-GD2-260
- C/C++ language MIG-GD2-223, MIG-GD2-260
- changing
 - local IP address OPR-GDE-1398
 - MATIP values OPR-GDE-748
 - maximum packet size OPR-GDE-1398
- checking remote host connectivity OPR-GDE-382
- CINFC tags MIG-GD2-228, MIG-GD2-262
- commands MIG-GD2-235
- CONKC tags MIG-GD2-227, MIG-GD2-262
- copy members MIG-GD2-228, MIG-GD2-262
- database changes MIG-GD2-239, MIG-GD2-266
- deactivating
 - CLAW workstations OPR-GDE-215
 - Internet Protocol (IP) routers OPR-GDE-1411
 - OSA-Express connections OPR-GDE-1411
- defining
 - CLAW host name OPR-GDE-209
 - CLAW workstations OPR-GDE-209
 - DNS server addresses OPR-GDE-382
 - Internet Protocol (IP) routers OPR-GDE-1402
 - local Internet Protocol (IP) addresses OPR-GDE-1402
- deleting
 - CLAW workstation definitions OPR-GDE-211
 - Internet Protocol (IP) routers OPR-GDE-1404
 - local Internet Protocol (IP) addresses OPR-GDE-1404
- displaying
 - CLAW host name OPR-GDE-213
 - CLAW workstation definitions OPR-GDE-213
 - DNS server addresses OPR-GDE-382
 - individual IP trace table entries OPR-GDE-661
 - Internet Protocol (IP) routers OPR-GDE-1406
 - IP trace table entries OPR-GDE-668
 - local Internet Protocol (IP) addresses OPR-GDE-1406
 - MATIP values OPR-GDE-748
 - OSA-Express connections OPR-GDE-1406

TCP/IP support (*continued*)
 displaying (*continued*)
 socket statistics OPR-GDE-382
 status information OPR-GDE-218
 traffic load status OPR-GDE-218
 VIPAs and CPU information OPR-GDE-1430

ECB threads per SSL daemon process
 starting SSL daemon processes OPR-GDE-981

fallback MIG-GD2-241

feature changes MIG-GD2-239, MIG-GD2-266

fixed file records MIG-GD2-263

fixed-file records MIG-GD2-230

functional changes MIG-GD2-235, MIG-GD2-265

functional overview MIG-GD2-221, MIG-GD2-259

hardware MIG-GD2-222

host system changes MIG-GD2-239, MIG-GD2-266

installation validation MIG-GD2-239, MIG-GD2-266

interfaces MIG-GD2-223, MIG-GD2-260

loading process MIG-GD2-238, MIG-GD2-265

macros MIG-GD2-230, MIG-GD2-263

migration scenarios MIG-GD2-239, MIG-GD2-266

moving

- VIPAs from one processor to another OPR-GDE-1430

offline messages MIG-GD2-235

online messages MIG-GD2-235

online system load MIG-GD2-238, MIG-GD2-265

operating environment requirements MIG-GD2-222, MIG-GD2-260

operational changes MIG-GD2-235, MIG-GD2-265

overview MIG-GD2-27, MIG-GD2-28, MIG-GD2-29, MIG-GD2-30, MIG-GD2-221, MIG-GD2-259

performance changes MIG-GD2-238, MIG-GD2-265

planning information MIG-GD2-222, MIG-GD2-260

prerequisite APARs MIG-GD2-221, MIG-GD2-259

programming request for price quotation (PRPQ) MIG-GD2-222

publication changes MIG-GD2-238, MIG-GD2-266

refresh SNMP configuration file OPR-GDE-1263

resetting

- ZCLAW command lock OPR-GDE-217

resolving host addresses OPR-GDE-382

segments MIG-GD2-233, MIG-GD2-264

SIP changes MIG-GD2-238, MIG-GD2-265

SNAKEY macro

- CLAWADP parameter ACF-GDE-20
- CLAWFD parameter ACF-GDE-20
- CLAWIP parameter ACF-GDE-20
- IPMTSIZE parameter ACF-GDE-20
- IPRBUFFS parameter ACF-GDE-20
- IPRBUFSZ parameter ACF-GDE-20
- IPTOS parameter ACF-GDE-20
- IPTRCNUM parameter ACF-GDE-20
- IPTRCSIZ parameter ACF-GDE-20
- MAXASCU parameter ACF-GDE-19
- MAXIPCCW parameter ACF-GDE-20
- MAXMATIP parameter ACF-GDE-19
- MAXOSA parameter ACF-GDE-20
- MAXRTE parameter ACF-GDE-20
- MAXSOCK parameter ACF-GDE-20
- OSABUFF parameter ACF-GDE-20

TCP/IP support (*continued*)

- SNAKEY macro (*continued*)
 - SOCKSWP parameter ACF-GDE-20
- SNMP configuration file refresh OPR-GDE-1263
- socket sweeper
 - closing inactive sockets OPR-GDE-981
- software (programming requirements) MIG-GD2-222
- SSL daemon processes
 - working with SSL sessions OPR-GDE-981
- storage changes MIG-GD2-238, MIG-GD2-265
- storage considerations MIG-GD2-238, MIG-GD2-265
- summarizing
 - system workload levels and VIPA statistics OPR-GDE-1430
- system equates MIG-GD2-234, MIG-GD2-265
- system errors MIG-GD2-235
- system generation changes MIG-GD2-238, MIG-GD2-265
- tuning changes MIG-GD2-238, MIG-GD2-265
- user exits MIG-GD2-234, MIG-GD2-265
- virtual IP addresses (VIPAs) OPR-GDE-1430
- ZCLAW ACTIVATE command OPR-GDE-207
- ZCLAW ADD command OPR-GDE-209
- ZCLAW DELETE command OPR-GDE-211
- ZCLAW DISPLAY command OPR-GDE-213
- ZCLAW INACTIVATE command OPR-GDE-215
- ZCLAW RESET command OPR-GDE-217
- ZCLAW STATUS command OPR-GDE-218
- ZCLAW TRACE command OPR-GDE-220
- ZDTCP command OPR-GDE-382
- ZINIP command OPR-GDE-661
- ZIPTR command OPR-GDE-668
- ZMATP command OPR-GDE-748
- ZNKEY command OPR-GDE-973, OPR-GDE-981
- ZOSAE command OPR-GDE-1104
- ZSNMP command OPR-GDE-1263
- ZTRTE command OPR-GDE-1390
- ZTTCP ACTIVATE command OPR-GDE-1396
- ZTTCP CHANGE command OPR-GDE-1398
- ZTTCP DEFINE command OPR-GDE-1402
- ZTTCP DELETE command OPR-GDE-1404
- ZTTCP DISPLAY command OPR-GDE-1406
- ZTTCP INACTIVATE command OPR-GDE-1411
- ZTTCP TRACE command OPR-GDE-1413
- ZVIPA command OPR-GDE-1430

TCP/IP user exits

- See user exits

TCP/IP weighted input messages by application

- SPM-PRM-34

TCP/IP, workstation interface

- restricted C functions CLAWGR-385
- TPF, used in CLAWGR-385

TCP/IP

- See *also* Transmission Control Protocol/Internet Protocol (TCP/IP)
- error codes, socket CLAWGR-365

TDCTC macro APP-GDE-271, SYS-MAC-478

TDSPC macro GEN-MAC-392

TDSPC

- overview MIG-GD1-20

TDTAC macro APP-GDE-272, SYS-MAC-481

techniques

- data collection SPM-PRM-4
- data reduction SPM-PRM-6

teleprocessor network simulator (TPNS)/emulator program (EP)

- simulator operation
 - start MIG-GD1-73
 - stop MIG-GD1-73

temporary file

- names CLS-UGR-552

temporary files CLS-UGR-551

temporary

- bag, creating CLS-UGR-941, CLS-UGR-982
- BLOB, creating CLS-UGR-947
- collection, creating and assigning it a persistent identifier (PID) CLS-UGR-935
- copy, creating and returning its PID CLS-UGR-929
- key bag, creating CLS-UGR-956
- key set, creating CLS-UGR-968
- key sorted bag, creating CLS-UGR-974, CLS-UGR-976
- key sorted set, creating CLS-UGR-980
- keyed log, creating CLS-UGR-962
- log, creating CLS-UGR-986
- sequence collection, creating CLS-UGR-897, CLS-UGR-1002
- set, creating CLS-UGR-1008
- sorted bag collection, creating CLS-UGR-901, CLS-UGR-1015
- sorted set collection, creating CLS-UGR-1021

TERMC macro SYS-MAC-485

terminal activity SPM-PRM-73, SPM-PRM-86

terminal activity report SPM-PRM-72

terminal addition GIM-24

terminal address table (WGTA) CON-STR-178, SNA-PRM-45, SNA-PRM-48

terminal address table (WGTA)

- display MIG-GD1-70
- modify MIG-GD1-70

terminal and transaction control APP-GDE-48

terminal concentrator CON-STR-3

terminal control APP-GDE-48

terminal control block CON-STR-180

terminal control block

- agent assembly area (AAA) CON-STR-180
- node control block (NCB) CON-STR-180
- routing control block (RCB) CON-STR-180
- routing control parameter list (RCPL) CON-STR-181
- scratch pad area (SPA) CON-STR-180

terminal control table (WGTA)

- displaying OPR-GDE-398
- modifying OPR-GDE-398
- ZDWGT command OPR-GDE-398
- ZMATP command OPR-GDE-748

terminal control

- agent assembly area (AAA) APP-GDE-49
- locking out terminals APP-GDE-48
- routing control block (RCB) APP-GDE-48

Terminal Data Field Display macro GEN-MAC-138

terminal entry locate GEN-MAC-556

- terminal I/O functions
 - assert CLS-UGR-15
 - cratc CLS-UGR-51
 - gets CLS-UGR-273
 - puts CLS-UGR-402
 - routc CLS-UGR-441
 - scanf CLS-UGR-447
 - tpf_help CLS-UGR-603
 - wgtac_ext CLS-UGR-692
 - wgtac CLS-UGR-691
 - wtopc_insert_header CLS-UGR-704
 - wtopc_routing_list CLS-UGR-706
 - wtopc_text CLS-UGR-707
 - wtopc CLS-UGR-700
- terminal identification table CON-STR-178
- terminal identification table
 - resource vector table (RVT) CON-STR-178
 - terminal address table (WGTA) CON-STR-178
- terminal input APP-GDE-154
- terminal interchange (TI)
 - alter MIG-GD1-73
 - display error count MIG-GD1-72
 - display status MIG-GD1-73
 - displaying status OPR-GDE-689
 - reset MIG-GD1-73
 - support of
 - high-speed lines MIG-GD1-72
 - low-speed lines MIG-GD1-72
 - types MIG-GD1-188, MIG-GD2-38
 - ZLDTI command OPR-GDE-689
- terminal map record
 - loading OPR-GDE-68
 - ZAMAP command OPR-GDE-68
- terminal message SYS-MAC-422
- Terminal Panel Display macro GEN-MAC-155
- terminal security APP-GDE-42
- terminal simulation APP-GDE-290
- terminal simulation options
 - device addresses PDV-PRM-8
 - device types PDV-PRM-8
 - for PTV control records PDV-PRM-8
- terminal simulation
 - for phase 3 (package test) PDV-PRM-11
 - online PDV-PRM-61
 - output on log tape PDV-PRM-61
 - output
 - diagnostic output formatter processing PDV-PRM-65
 - overview PDV-PRM-22
 - records PDV-PRM-22
- terminal-type values SNA-PRM-26
- terminal
 - control SYS-GEN-146
 - displaying information for OPR-GDE-1338
 - identification and control SYS-GEN-145
 - interchange status table (TITB) SYS-GEN-132
 - sending unsolicited messages to OPR-GDE-1261
 - ZSNDU command OPR-GDE-1261
 - ZTERM command OPR-GDE-1338
- terminals
 - types MIG-GD1-189, MIG-GD2-39
- terminate all CLAW activity CLAWGR-395
- terminate CLAW activity on subchannel pair
 - CLAWGR-388
- termination of an Entry CON-STR-92
- termination, session SNA-PRM-99
- TEST SNA-PRM-77
- test activation procedures PDV-PRM-13
- test activities PDV-PRM-3
- Test and Release Data Level macro GEN-MAC-122
- test and set instruction (TS) CON-STR-29,
 - CON-STR-30, CON-STR-46
- test for queued information, TPFxd_sync CLS-UGR-1382
- Test Input/Output (I/O) Service macro SYS-MAC-486
- test output PDV-PRM-14
- Test RID/RVT address macro SYS-MAC-300
- Test Sysgen Options macro GEN-MAC-381
- test system characteristics APP-GDE-283
- test system components APP-GDE-283
- test unit identification record (RUNID)
 - for PTV control records PDV-PRM-7
- test unit tape (TUT) PDV-PRM-12
- test unit tape (TUT)
 - content of PDV-PRM-5
 - creating OPR-GDE-1477
 - input for running PTV PDV-PRM-5
 - input to PTV OPR-GDE-1477
- Test unit tape preparation PDV-PRM-3
- test unit tapes PDV-PRM-17
- test unit
 - creating PDV-PRM-43
- test
 - core level for occupied condition CLS-UGR-300
 - system generation options CLS-UGR-526
- testing environment APP-GDE-283
- testing levels APP-GDE-283
- testing levels for PTV PDV-PRM-4
- testing philosophy PDV-PRM-3
- testing the migration GIM-28
- testing
 - data definition CLS-UGR-1314
 - for an already defined property CLS-UGR-1068
 - for more elements CLS-UGR-1157
 - to see if cursor is at the end of collection CLS-UGR-1125
 - to see if cursor points at last element CLS-UGR-1127
 - to see if DD name is defined CLS-UGR-1314
 - to see if PID is for a collection CLS-UGR-1066
 - to see if the collection is empty CLS-UGR-1147
- text dump, setting on or off CLS-UGR-1335
- text
 - files CLS-UGR-199
- TFTP configuration file APP-GDE-174, CLAWGR-241
- TFTP configuration file
 - creating CLAWGR-241
 - directives CLAWGR-240
 - general discussion CLAWGR-239
 - transferring to TPF system CLAWGR-241
 - updating CLAWGR-241
- TFTP log APP-GDE-174
- TFTP server CLAWGR-239

- TFTP server
 - customizing APP-GDE-174
 - file names APP-GDE-175
 - general discussion APP-GDE-174
 - implementation differences APP-GDE-174
 - security APP-GDE-174
 - using from another system APP-GDE-175
- tftp.conf CLAWGR-241
- TG (transmission group) SNA-PRM-223
- TG2SDA parameter
 - CTC statement ACF-GDE-50
- THDR chaining
 - description of SNA-PRM-175, SNA-PRM-176
- thread application interface macro
 - select GEN-MAC-353
- thread application interface selection CLS-UGR-448
- THREAD parameter
 - RSC statement ACF-GDE-43
- threaded processes
 - ending SYS-MAC-485
- threads precursor
 - API changes MIG-GD2-330
 - architecture MIG-GD2-324
 - C/C++ language MIG-GD2-324
 - CINFC tags MIG-GD2-325
 - commands MIG-GD2-329
 - CONKC tags MIG-GD2-325
 - copy members MIG-GD2-326
 - database changes MIG-GD2-330
 - feature changes MIG-GD2-331
 - fixed file records MIG-GD2-326
 - functional changes MIG-GD2-329
 - functional overview MIG-GD2-324
 - host system changes MIG-GD2-330
 - installation validation MIG-GD2-331
 - interfaces MIG-GD2-324
 - loading process MIG-GD2-330
 - macros MIG-GD2-327
 - migration scenarios MIG-GD2-331
 - offline messages MIG-GD2-329
 - online messages MIG-GD2-329
 - online system load MIG-GD2-330
 - operating environment requirements MIG-GD2-324
 - operational changes MIG-GD2-329
 - overview MIG-GD2-19, MIG-GD2-324
 - performance changes MIG-GD2-329
 - planning information MIG-GD2-324
 - prerequisite APARs MIG-GD2-324
 - publication changes MIG-GD2-330
 - segments MIG-GD2-328
 - SIP changes MIG-GD2-330
 - storage changes MIG-GD2-330
 - storage considerations MIG-GD2-330
 - system equates MIG-GD2-329
 - system errors MIG-GD2-329
 - system generation changes MIG-GD2-330
 - tuning changes MIG-GD2-329
 - user exits MIG-GD2-329
 - YIELDC macro MIG-GD2-324
- threads support SPM-PRM-25
- threshold value, cache DBS-REF-49
- threshold
 - catastrophic processor failures MIG-GD1-273
 - change the fault rate for channel failures MIG-GD1-273
 - change the fault rate for processor failures MIG-GD1-273
 - channel failures MIG-GD1-273
- throughput CON-STR-15
- tightly coupled (TC) INS-PRM-252
- tightly coupled considerations for TPF/APPC SNA-PRM-102
- tightly coupled multiprocessing CON-STR-21, CON-STR-44
- tightly coupled processor
 - I-stream scheduler tuning parameters
 - changing OPR-GDE-222
 - operating mode for future IPLs
 - changing OPR-GDE-222
 - ZCNIS command OPR-GDE-222
- tightly coupled
 - database considerations CON-STR-144
 - interprocessor communication CON-STR-38
 - multiprocessor CON-STR-21
 - processor support (TC) SYS-GEN-8
 - running under VM SYS-GEN-50
 - scheduler
 - algorithm SYS-GEN-50
 - purpose of SYS-GEN-48
 - tuning SYS-GEN-48
 - uniprocessor CON-STR-21
- Time Conversion macro GEN-MAC-397, GEN-MAC-504
- time field length for SQL AR-USG-28
- time initiated keypoint copy MSP-PRM-11
- time interval for CRETC GEN-MAC-13
- time slice an ECB CLS-UGR-553
- Time Slice an ECB macro SYS-MAC-488
- time slice attributes
 - changing OPR-GDE-1356
 - displaying OPR-GDE-1356
 - ZTMSL command OPR-GDE-1356
- time slice name table
 - for resource control support MIG-GD2-249
- time stamp PSM-GDE-7
- time stamp compute GEN-MAC-395
- time stamp creation CLS-UGR-1272
- time stamp
 - changing OPR-GDE-540
 - general SPM-PRM-83
 - high-speed input message SPM-PRM-85
 - high-speed output message SPM-PRM-85
 - ZFILE touch command OPR-GDE-540
- time stamping
 - control program output messages OPR-GDE-8
- Time-Initiated CP Routine Execution macro SYS-MAC-460
- time-initiated ECB creation GEN-MAC-116
- time-initiated entry CLS-UGR-64, CLS-UGR-66
- time-initiated message table
 - adding to OPR-GDE-1301
 - displaying OPR-GDE-1307

time-initiated message table *(continued)*
 initializing OPR-GDE-1309
 removing from OPR-GDE-1305
 ZSTIM A command OPR-GDE-1301
 ZSTIM C command OPR-GDE-1305
 ZSTIM D command OPR-GDE-1307
 ZSTIM I command OPR-GDE-1309

time-initiated message
 adding OPR-GDE-1301
 cancel MIG-GD1-82
 canceling OPR-GDE-1305
 display table MIG-GD1-82
 initialize table MIG-GD1-82
 ZSTIM A command OPR-GDE-1301
 ZSTIM C command OPR-GDE-1305

time-of-day (TOD) clock
 changing OPR-GDE-90
 displaying OPR-GDE-387
 IPL procedure OPR-GDE-3
 Sysplex Timer
 synchronizing OPR-GDE-90
 ZATIM command OPR-GDE-90
 ZDTIM command OPR-GDE-387

time-of-day (TOD) synchronization compatibility (TSC)
 hardware
 Sysplex Timer information
 adding to keypoint I (CTKI) OPR-GDE-88
 ZATIM command OPR-GDE-88

time-of-day (TOD)
 display corresponding date and time for specific
 value MIG-GD2-10
 display corresponding TOD clock value for specific
 date and time MIG-GD2-10
 display current value MIG-GD2-10
 set to Greenwich Mean Time (GMT) MIG-GD2-10
 translation to a date and time MIG-GD2-10

time
 changing OPR-GDE-90
 displaying OPR-GDE-387
 ZATIM command OPR-GDE-90
 ZDTIM command OPR-GDE-387

TIMEC macro GEN-MAC-395

timeout SYS-MAC-270

timeout reset GEN-MAC-217

timeouts CLAWGR-81

timer rate
 overview MIG-GD1-20

timing estimate, restore DBS-REF-71

timing, capture and restore DBS-REF-67

TIOSC macro SYS-MAC-486

TLD tapes OPR-GDE-19

TMCNA macro GEN-MAC-397

TMP_MAX macro CLS-UGR-552

TMSEC macro GEN-MAC-399

TMSEC
 macro, description of APP-GDE-220

TMSLC macro SYS-MAC-488

TMSLC Macro (UCCTMSL) INS-PRM-93

TMSPC macro GEN-MAC-401

TMSPC
 macro, description of APP-GDE-220

TMTKC macro SYS-MAC-492

TN universal character set
 CUAH program OPR-GDE-103
 defining OPR-GDE-103
 loading OPR-GDE-102
 ZAURS LUCS command OPR-GDE-102

TOD (time of day clock) SYS-GEN-162

TOD synch RPQ cabling SYS-GEN-227

TOD synchronization compatibility (TSC)
 invalidate MIG-GD1-74
 validate MIG-GD1-74

token ring CON-STR-186

tokenization support GEN-MAC-40

tokens MPI-PRM-9

tools
 block checking mode MIG-GD1-299
 diagnostic MIG-GD1-293
 problem determination MIG-GD1-293

TOPNC GEN-MAC-17

TOPNC macro GEN-MAC-406

total working storage SPM-PRM-83

TOURC macro GEN-MAC-409

TOUTC macro GEN-MAC-411

TP (transmission priority) SNA-PRM-227,
 SNA-PRM-229

TPALLOC SNA-PRM-62

TPALLOC parameter
 SNAKEY macro ACF-GDE-19

TPCNC macro APP-GDE-272, SYS-MAC-493

TPF (Transaction Processing Facility)
 application GIM-3
 availability GIM-2
 back-end processor GIM-5
 front-end processor GIM-3
 interrupt-driven GIM-15
 network switch GIM-3
 overview GIM-1
 planning GIM-31
 reliability GIM-2
 system requirements GIM-31
 system requirements
 hardware GIM-31
 software GIM-31
 Version 4 Release 1 GIM-23

TPF 4.1 C headers PSM-GDE-31

TPF 4.1 features
 High Performance Option (HPO) SYS-GEN-9
 Multi-Processor Interconnect Facility (MPIF)
 SYS-GEN-11

TPF 4.1 library
 overview MIG-GD1-315

TPF 4.1 system
 APPC macros MIG-GD1-36
 areas of the TPF 4.1 system MIG-GD1-158
 C language support functions MIG-GD1-46
 changed interfaces MIG-GD1-23
 changes MIG-GD2-7
 CINFC tags MIG-GD1-56
 commands MIG-GD1-62
 configure Message Queue Interface (MQI) client
 MIG-GD2-268

TPF 4.1 system *(continued)*
 CONKC tags MIG-GD1-59
 data macros MIG-GD1-37
 functional overview MIG-GD2-7
 general macros MIG-GD1-28
 general use C language header files MIG-GD1-49
 new interfaces MIG-GD1-23
 obsolete interfaces MIG-GD1-23
 offline messages MIG-GD1-84
 online messages MIG-GD1-84
 PTV macros MIG-GD1-37
 PUT overview MIG-GD2-7
 SIP macros and statements MIG-GD1-24
 SNA communication macros MIG-GD1-37
 start the first time MIG-GD1-216
 SYSEQ tags MIG-GD1-59
 system equates MIG-GD1-59
 system errors MIG-GD1-84
 system macros MIG-GD1-28
 updates MIG-GD2-7
 user exits MIG-GD1-51

TPF Advanced Peer-to-Peer Networking (TPF/APPN)

API changes MIG-GD2-161
 architecture MIG-GD2-148
 C/C++ language MIG-GD2-150
 CINFC tags MIG-GD2-150
 commands MIG-GD2-157
 common migration tasks MIG-GD2-162
 CONKC tags MIG-GD2-150
 copy members MIG-GD2-150
 creating the SNA keypoint (CTK2) MIG-GD2-160
 database changes MIG-GD2-161
 define alias CDRM names MIG-GD2-160
 define remote CP names MIG-GD2-160
 define shared printers MIG-GD2-160
 define TPF CP names MIG-GD2-160
 dynamic LU support MIG-GD2-18
 fallback MIG-GD2-166
 feature changes MIG-GD2-162
 fixed file records MIG-GD2-151
 functional changes MIG-GD2-156
 functional overview MIG-GD2-148
 hardware MIG-GD2-149
 host system changes MIG-GD2-161
 installation validation MIG-GD2-162
 interfaces MIG-GD2-150
 loading process MIG-GD2-161
 macros MIG-GD2-151
 migrate from LEN to APPN MIG-GD2-164
 migrating from PU 5 to APPN MIG-GD2-162
 migration scenarios MIG-GD2-162
 offline messages MIG-GD2-157
 online messages MIG-GD2-157
 online system load MIG-GD2-161
 operating environment requirements MIG-GD2-149
 operational changes MIG-GD2-156
 overview MIG-GD2-19, MIG-GD2-148
 performance changes MIG-GD2-159
 planning information MIG-GD2-149
 prerequisite APARs MIG-GD2-148
 publication changes MIG-GD2-161

TPF Advanced Peer-to-Peer Networking (TPF/APPN)
(continued)

segments MIG-GD2-153
 SIP changes MIG-GD2-159
 software (programming requirements) MIG-GD2-149
 storage changes MIG-GD2-159
 storage considerations MIG-GD2-159
 system equates MIG-GD2-156
 system errors MIG-GD2-157
 system generation changes MIG-GD2-159
 tuning changes MIG-GD2-159
 user exits MIG-GD2-156

TPF Advanced Program-to-Program Communications (TPF/APPC) APP-GDE-10, CLS-UGR-1, CLS-UGR-723, CLS-UGR-793, CON-STR-183, GIM-26

TPF Advanced Program-to-Program Communications (TPF/APPC)

ITPNT macro GEN-MAC-278
 presentation services CON-STR-183

TPF Advanced Program-to-Program Communications
 See TPF/APPC

TPF API functions CLS-UGR-1

TPF API functions

__CREDC CLS-UGR-57, CLS-UGR-59
 __CREMC CLS-UGR-62
 __CRETC CLS-UGR-64
 __CREXC CLS-UGR-69
 __ENTDC CLS-UGR-104
 abort CLS-UGR-7
 add1c CLS-UGR-11
 alarm CLS-UGR-13
 assert CLS-UGR-15
 attac_ext CLS-UGR-21
 attac_id CLS-UGR-23
 attac CLS-UGR-19
 cebic_goto_bss CLS-UGR-25
 cebic_goto_dbi CLS-UGR-26
 cebic_goto_ssu CLS-UGR-27
 cebic_restore CLS-UGR-28
 cebic_save CLS-UGR-29
 cifrc CLS-UGR-37
 cinfc_fast_ss CLS-UGR-41
 cinfc_fast CLS-UGR-40
 cinfc CLS-UGR-38
 corhc CLS-UGR-49
 coruc CLS-UGR-50
 cratc CLS-UGR-51
 credc CLS-UGR-57
 cremc CLS-UGR-62
 cretc_level CLS-UGR-66
 cretc CLS-UGR-64
 crexc CLS-UGR-69
 crosc_entrc CLS-UGR-71
 crusa CLS-UGR-73
 csonc CLS-UGR-75
 dbsac CLS-UGR-78
 dbsdc.h CLS-UGR-79
 defrc CLS-UGR-80
 deqc CLS-UGR-84
 detac_ext CLS-UGR-86

TPF API functions *(continued)*

detach CLS-UGR-88
 detach CLS-UGR-85
 delay CLS-UGR-90
 ecbptr CLS-UGR-101
 enqc CLS-UGR-102
 entdc CLS-UGR-104
 evinc CLS-UGR-108
 evnqc CLS-UGR-109
 evntc CLS-UGR-111
 evnwc CLS-UGR-113
 exit CLS-UGR-115
 face_facs CLS-UGR-120
 FACE CLS-UGR-117
 FACS CLS-UGR-117
 file_record_ext CLS-UGR-161
 file_record CLS-UGR-158
 filec_ext CLS-UGR-154
 filec CLS-UGR-152
 filnc_ext CLS-UGR-167
 filnc CLS-UGR-165
 filuc_ext CLS-UGR-172
 filuc CLS-UGR-170
 find_record_ext CLS-UGR-181
 find_record CLS-UGR-178
 findc_ext CLS-UGR-176
 findc CLS-UGR-174
 finhc_ext CLS-UGR-187
 finhc CLS-UGR-185
 finwc_ext CLS-UGR-191
 finwc CLS-UGR-189
 fiwhc_ext CLS-UGR-195
 fiwhc CLS-UGR-193
 flipc CLS-UGR-197
 gdsnc CLS-UGR-241
 gdsrc CLS-UGR-244
 getcc CLS-UGR-248
 getfc CLS-UGR-258
 getpc CLS-UGR-265
 gets CLS-UGR-273
 glob_keypoint CLS-UGR-279
 glob_lock CLS-UGR-280
 glob_sync CLS-UGR-284
 glob_unlock CLS-UGR-286
 glob_update CLS-UGR-288
 glob CLS-UGR-277
 global CLS-UGR-290
 gsysc CLS-UGR-293
 inqrc CLS-UGR-295
 keyrc_okey CLS-UGR-297
 keyrc CLS-UGR-296
 levtest CLS-UGR-300
 lockc CLS-UGR-305
 longc CLS-UGR-312
 mail CLS-UGR-320
 maskc CLS-UGR-325
 numbc CLS-UGR-379
 pausc CLS-UGR-387
 perror CLS-UGR-389
 postc CLS-UGR-395
 progc CLS-UGR-398

TPF API functions *(continued)*

puts CLS-UGR-402
 raisa CLS-UGR-404
 rcunc CLS-UGR-408
 rehka CLS-UGR-419
 relcc CLS-UGR-421
 relfc CLS-UGR-423
 relpc CLS-UGR-425
 ridcc CLS-UGR-435
 rлча CLS-UGR-437
 routc CLS-UGR-441
 rsysc CLS-UGR-443
 rvtcc CLS-UGR-445
 scanf CLS-UGR-447
 selec CLS-UGR-448
 select CLS-UGR-450
 serrc_op_ext CLS-UGR-456
 serrc_op_slit CLS-UGR-458
 serrc_op CLS-UGR-454
 sipcc CLS-UGR-504
 snapc CLS-UGR-508
 sonic CLS-UGR-511
 strerror CLS-UGR-517
 swisc_create CLS-UGR-518
 systc CLS-UGR-526
 system CLS-UGR-527
 tape_access CLS-UGR-532
 tape_close CLS-UGR-534
 tape_cntl CLS-UGR-535
 tape_open CLS-UGR-537
 tape_read CLS-UGR-538
 tape_write CLS-UGR-540
 tasnc CLS-UGR-541
 tbspc CLS-UGR-542
 tcisc CLS-UGR-544
 tdspc_q CLS-UGR-546
 tdspc_v CLS-UGR-547
 tdspc CLS-UGR-545
 tdtac CLS-UGR-549
 tmslc CLS-UGR-553
 topnc CLS-UGR-556
 tourc CLS-UGR-557
 toutc CLS-UGR-558
 tpcnc CLS-UGR-560
 tpf_cresc CLS-UGR-572
 tpf_decb_create CLS-UGR-576
 tpf_decb_locate CLS-UGR-578
 tpf_decb_release CLS-UGR-580
 tpf_decb_swapblk CLS-UGR-582
 tpf_decb_validate CLS-UGR-584
 tpf_dlcck CLS-UGR-585
 tpf_esfac CLS-UGR-586
 tpf_fa4x4c CLS-UGR-592
 tpf_fac8c CLS-UGR-587
 tpf_fork CLS-UGR-594
 tpf_gsvac CLS-UGR-602
 tpf_help CLS-UGR-603
 tpf_is_RPCServer_auto_restarted CLS-UGR-607
 tpf_itrpc CLS-UGR-608
 tpf_lemic CLS-UGR-612
 tpf_movec_EVM CLS-UGR-618

TPF API functions *(continued)*

- tpf_movec CLS-UGR-616
- tpf_rcrfc CLS-UGR-624
- tpf_rpc_options CLS-UGR-626
- tpf_snmp_BER_encode CLS-UGR-632
- tpf_STCK CLS-UGR-634
- tpf_tcpip_message_cnt CLS-UGR-635
- tpf_tm_getToken CLS-UGR-636
- tprdc CLS-UGR-641
- trewc CLS-UGR-643
- trsvc CLS-UGR-644
- tsync CLS-UGR-645
- twrtc CLS-UGR-646
- uatbc CLS-UGR-657
- unfrc_ext CLS-UGR-662
- unfrc CLS-UGR-661
- unhka CLS-UGR-666
- unlkc CLS-UGR-670
- waitc CLS-UGR-686
- wgtac_ext CLS-UGR-692
- wgtac CLS-UGR-691
- WIFEXITED CLS-UGR-694
- wtopc_insert_header CLS-UGR-704
- wtopc_routing_list CLS-UGR-706
- wtopc_text CLS-UGR-707
- wtopc CLS-UGR-700
- entrc CLS-UGR-106
- TPF_CALL_BY_NAME CLS-UGR-562
- tpf_vipac CLS-UGR-637
- tpf_yieldc CLS-UGR-639

TPF application LUs

- defining to VTAM AR-USG-19

TPF application program

- precompiling AR-USG-32

TPF Application Requester (TPFAR) APP-GDE-10, CON-STR-38, CON-STR-150

TPF Application Requester (TPFAR)

- calculation methods for response time AR-USG-98
- DB2 requirements AR-USG-11, AR-USG-20
- define new record ID MIG-GD1-208
- defining storage areas for in SNAKEY AR-USG-13
- distributed access capability of Systems Application Architecture AR-USG-1
- ECB processing AR-USG-14, AR-USG-18, AR-USG-30, AR-USG-98
- hotcon table (HCT) entries
 - maximum number OPR-GDE-978
- how it works AR-USG-4
- introduction to AR-USG-1
- loosely coupled requirements AR-USG-17
- Lu 6.2 requirements AR-USG-11
- LU 6.2 requirements AR-USG-14
- methods for using AR-USG-5
- overview MIG-GD1-7
- performance and tuning AR-USG-97
- preparing your environment for AR-USG-11
- response time AR-USG-97
- role in moving TPF data to DB2 AR-USG-4
- SIP CONFIG macro changes for TPF AR-USG-11
- subsystem requirements for TPFAR AR-USG-18

TPF Application Requester (TPFAR) *(continued)*

- suggested methods for using AR-USG-5, AR-USG-6, AR-USG-8
- supported SQL commands AR-USG-101
- TCP/IP requirements AR-USG-15
- TPF requirements AR-USG-11
- TPF storage requirements AR-USG-14
- tuning and performance AR-USG-97
 - using assembler language in applications AR-USG-79
 - using TPF C in applications AR-USG-45
- VTAM requirements AR-USG-18
- ZNKEY command AR-USG-16, OPR-GDE-978
- ZSQLD command AR-USG-13, AR-USG-15, AR-USG-17, AR-USG-18, AR-USG-21
- ZSTTD command AR-USG-16

TPF Application Requester Enhancements

- API changes MIG-GD2-306
- architecture MIG-GD2-294
- C/C++ language MIG-GD2-295
- CINFC tags MIG-GD2-301
- commands MIG-GD2-303
- CONKC tags MIG-GD2-301
- copy members MIG-GD2-301
- database changes MIG-GD2-306
- feature changes MIG-GD2-306
- fixed file records MIG-GD2-302
- functional changes MIG-GD2-303
- functional overview MIG-GD2-294
- hardware MIG-GD2-295
- host system changes MIG-GD2-306
- installation validation MIG-GD2-306
- interfaces MIG-GD2-295
- loading process MIG-GD2-305
- macros MIG-GD2-302
- migration scenarios MIG-GD2-306
- offline messages MIG-GD2-304
- online messages MIG-GD2-304
- online system load MIG-GD2-305
- operating environment requirements MIG-GD2-295
- operational changes MIG-GD2-303
- overview MIG-GD2-19, MIG-GD2-294
- performance changes MIG-GD2-305
- planning information MIG-GD2-295
- prerequisite APARs MIG-GD2-294
- publication changes MIG-GD2-305
- segments MIG-GD2-303
- SIP changes MIG-GD2-305
- software (programming requirements) MIG-GD2-295
- storage changes MIG-GD2-305
- storage considerations MIG-GD2-305
- system equates MIG-GD2-303
- system errors MIG-GD2-304
- system generation changes MIG-GD2-305
- tuning changes MIG-GD2-305
- user exits MIG-GD2-303

TPF Application Requester

- See TPFAR

TPF as Host Node SLU SNA-PRM-19

- TPF Assembler Debugger for VisualAge Client overview MIG-GD2-19

TPF C Debugger for VisualAge Client

- acquiring trace information MIG-GD2-20
- APAR PJ25982 MIG-GD2-20
- API changes MIG-GD2-551
- architecture MIG-GD2-540
- C/C++ language MIG-GD2-542
- CINFC tags MIG-GD2-546
- commands MIG-GD2-549
- configuration management and version control MIG-GD2-539
- CONKC tags MIG-GD2-546
- copy members MIG-GD2-546
- database changes MIG-GD2-551
- development environment user interface MIG-GD2-537
- feature changes MIG-GD2-551
- fixed file records MIG-GD2-546
- functional changes MIG-GD2-549
- functional overview MIG-GD2-537
- hardware MIG-GD2-541
- host system changes MIG-GD2-551
- installation validation MIG-GD2-552
- interfaces MIG-GD2-541
- loading process MIG-GD2-551
- local applications MIG-GD2-540
- LPEX editor MIG-GD2-538
- macros MIG-GD2-546
- migration scenarios MIG-GD2-552
- offline messages MIG-GD2-549
- online messages MIG-GD2-549
- online system load MIG-GD2-551
- operating environment requirements MIG-GD2-541
- operational changes MIG-GD2-549
- overview MIG-GD2-20, MIG-GD2-537
- performance changes MIG-GD2-550
- planning information MIG-GD2-541
- prerequisite APARs MIG-GD2-537
- publication changes MIG-GD2-551
- remote assemble MIG-GD2-538
- remote compile MIG-GD2-538
- remote debugger MIG-GD2-539
- segments MIG-GD2-548
- SIP changes MIG-GD2-551
- software (programming requirements) MIG-GD2-541
- storage changes MIG-GD2-551
- storage considerations MIG-GD2-551
- system equates MIG-GD2-549
- system errors MIG-GD2-549
- system generation changes MIG-GD2-551
- TeamConnection MIG-GD2-539
- tuning changes MIG-GD2-550
- user exits MIG-GD2-549
- VisualAge TPF debug server MIG-GD2-539

TPF capabilities SYS-GEN-7

TPF collection support (TPFCS)

- archiving DBS-REF-145
- browse support DBS-REF-148
- capture and restore DBS-REF-145
- collection examples DBS-REF-134
- collection lifetimes DBS-REF-138

TPF collection support (TPFCS) *(continued)*

- collection parts stored in the TPF database DBS-REF-160
- collection residency DBS-REF-173
- compact structures DBS-REF-173
- concurrency controls DBS-REF-142
- condensing objects to save space DBS-REF-207
- cursors DBS-REF-140
- data definitions DBS-REF-137
- data store application dictionary DBS-REF-139
- data stores DBS-REF-130
- database access DBS-REF-142
- database integrity and archives DBS-REF-145
- database layout DBS-REF-129
- detecting a corrupt collection DBS-REF-157
- dirty-reader protection DBS-REF-143
- elements DBS-REF-131
- extended structures DBS-REF-181
- external device support DBS-REF-145
- file representation of objects DBS-REF-164
- how an object overflows DBS-REF-210
- initializing DBS-REF-148
- locking cursors DBS-REF-142
- maintaining DBS-REF-147
- nonlocking cursors DBS-REF-142
- OBJECT class DBS-REF-166
- object-oriented concepts DBS-REF-157
- optimistic concurrency DBS-REF-142
- overview DBS-REF-129
- pessimistic concurrency DBS-REF-142
- primary and shadow records DBS-REF-167
- properties DBS-REF-138
- reconstruction DBS-REF-145
- recoup DBS-REF-149
- shadowing DBS-REF-144
- source code definition of objects DBS-REF-161
- storing collections on DASD DBS-REF-214
- storing objects on DASD DBS-REF-207
- storing TPFCS collections in a TPF database DBS-REF-157
- support for collection types DBS-REF-130
- tables, collection support DBS-REF-131
- TPF transaction services DBS-REF-143
- USERdata object DBS-REF-173
- using key paths with cursors DBS-REF-141
- validation DBS-REF-145
- validation and reconstruct support DBS-REF-219
- xternalObject DBS-REF-213
- ZBROW commands DBS-REF-148
- ZOODB commands DBS-REF-147

TPF collection support enhancements

- API changes MIG-GD2-534, MIG-GD2-572
- architecture MIG-GD2-527, MIG-GD2-566
- C/C++ language MIG-GD2-527, MIG-GD2-567
- CINFC tags MIG-GD2-529, MIG-GD2-568
- coexistence MIG-GD2-535, MIG-GD2-573
- commands MIG-GD2-532, MIG-GD2-570
- CONKC tags MIG-GD2-529, MIG-GD2-568
- copy members MIG-GD2-529, MIG-GD2-568
- database changes MIG-GD2-534, MIG-GD2-572
- fallback MIG-GD2-535, MIG-GD2-573

TPF collection support enhancements *(continued)*
 feature changes MIG-GD2-534, MIG-GD2-572
 fixed file records MIG-GD2-530, MIG-GD2-569
 functional changes MIG-GD2-532, MIG-GD2-570
 functional overview MIG-GD2-526, MIG-GD2-566
 host system changes MIG-GD2-534, MIG-GD2-572
 installation validation MIG-GD2-534, MIG-GD2-573
 interfaces MIG-GD2-527, MIG-GD2-567
 loading process MIG-GD2-533, MIG-GD2-572
 macros MIG-GD2-530, MIG-GD2-569
 migration scenarios MIG-GD2-534, MIG-GD2-573
 offline messages MIG-GD2-532, MIG-GD2-571
 online messages MIG-GD2-532, MIG-GD2-571
 online system load MIG-GD2-533, MIG-GD2-572
 operating environment requirements MIG-GD2-527,
 MIG-GD2-567
 operational changes MIG-GD2-532, MIG-GD2-570
 overview MIG-GD2-21, MIG-GD2-22,
 MIG-GD2-526, MIG-GD2-566
 performance changes MIG-GD2-533, MIG-GD2-572
 planning information MIG-GD2-527, MIG-GD2-567
 prerequisite APARs MIG-GD2-526, MIG-GD2-566
 publication changes MIG-GD2-533, MIG-GD2-572
 segments MIG-GD2-570
 SIP changes MIG-GD2-533, MIG-GD2-572
 storage changes MIG-GD2-533, MIG-GD2-572
 storage considerations MIG-GD2-533,
 MIG-GD2-572
 system equates MIG-GD2-531, MIG-GD2-570
 system errors MIG-GD2-532, MIG-GD2-571
 system generation changes MIG-GD2-533,
 MIG-GD2-572
 TPFCS (TPF collection support) MIG-GD2-526
 tuning changes MIG-GD2-533, MIG-GD2-572
 user exits MIG-GD2-532, MIG-GD2-570

TPF collection support functions

T02_add CLS-UGR-883
 T02_addAllFrom CLS-UGR-886
 T02_addAtCursor CLS-UGR-1115
 T02_addAtIndex CLS-UGR-888
 T02_addKeyPath CLS-UGR-890
 T02_addRecoupIndexEntry CLS-UGR-893
 T02_allElementsDo CLS-UGR-1117
 T02_asSequenceCollection CLS-UGR-897
 T02_associateRecoupIndexWithPID CLS-UGR-899
 T02_asSortedCollection CLS-UGR-901
 T02_at CLS-UGR-903
 T02_atBrowseKey CLS-UGR-1224
 T02_atBrowseKeyPut CLS-UGR-1226
 T02_atBrowseNewKeyPut CLS-UGR-1228
 T02_atCursor CLS-UGR-1119
 T02_atCursorPut CLS-UGR-1121
 T02_atCursorWithBuffer CLS-UGR-1123
 T02_atDSdictKey CLS-UGR-1188
 T02_atDSdictKeyPut CLS-UGR-1190
 T02_atDSdictNewKeyPut CLS-UGR-1192
 T02_atDSsystemKey CLS-UGR-1194
 T02_atDSsystemKeyPut CLS-UGR-1196
 T02_atDSsystemNewKeyPut CLS-UGR-1198
 T02_atEnd CLS-UGR-1125
 T02_atKey CLS-UGR-905

TPF collection support functions *(continued)*

T02_atKeyPut CLS-UGR-907
 T02_atKeyWithBuffer CLS-UGR-909
 T02_atLast CLS-UGR-1127
 T02_atNewKeyPut CLS-UGR-911
 T02_atPut CLS-UGR-913
 T02_atRBA CLS-UGR-915
 T02_atRBAPut CLS-UGR-917
 T02_atRBAWithBuffer CLS-UGR-920
 T02_atTPFKey CLS-UGR-1200
 T02_atTPFKeyPut CLS-UGR-1202
 T02_atTPFNewKeyPut CLS-UGR-1204
 T02_atTPFsystemKey CLS-UGR-1206
 T02_atTPFsystemKeyPut CLS-UGR-1208
 T02_atTPFsystemNewKeyPut CLS-UGR-1210
 T02_atWithBuffer CLS-UGR-922
 T02_capture CLS-UGR-924
 T02_changeDD CLS-UGR-1230
 T02_changeDS CLS-UGR-1232
 T02_class CLS-UGR-1346
 T02_convertBinPIDtoEBCDIC CLS-UGR-1348
 T02_convertClassName CLS-UGR-1234
 T02_convertEBCDICtoBinPID CLS-UGR-1350
 T02_convertMethodName CLS-UGR-1236
 T02_copyCollection CLS-UGR-927
 T02_copyCollectionTemp CLS-UGR-929
 T02_copyCollectionWithOptions CLS-UGR-931
 T02_createArray CLS-UGR-933
 T02_createArrayTemp CLS-UGR-935
 T02_createArrayWithOptions CLS-UGR-937
 T02_createBag CLS-UGR-939
 T02_createBagTemp CLS-UGR-941
 T02_createBagWithOptions CLS-UGR-943
 T02_createBLOB CLS-UGR-945
 T02_createBLOBTemp CLS-UGR-947
 T02_createBLOBWithOptions CLS-UGR-949
 T02_createCursor CLS-UGR-1129
 T02_createDD CLS-UGR-1238
 T02_createDS CLS-UGR-1240
 T02_createDSwithOptions CLS-UGR-1242
 T02_createEnv CLS-UGR-874
 T02_createKeyBag CLS-UGR-954
 T02_createKeyBagTemp CLS-UGR-956
 T02_createKeyBagWithOptions CLS-UGR-958
 T02_createKeyedLog CLS-UGR-960
 T02_createKeyedLogTemp CLS-UGR-962
 T02_createKeyedLogWithOptions CLS-UGR-964
 T02_createKeySet CLS-UGR-966
 T02_createKeySetTemp CLS-UGR-968
 T02_createKeySetWithOptions CLS-UGR-970
 T02_createKeySortedBag CLS-UGR-972
 T02_createKeySortedBagTemp CLS-UGR-974
 T02_createKeySortedBagWithOptions CLS-UGR-976
 T02_createKeySortedSet CLS-UGR-978
 T02_createKeySortedSetTemp CLS-UGR-980
 T02_createKeySortedSetWithOptions CLS-UGR-982
 T02_createLog CLS-UGR-984
 T02_createLogTemp CLS-UGR-986
 T02_createLogWithOptions CLS-UGR-988
 T02_createOptionList CLS-UGR-990
 T02_createPIDinventoryKey CLS-UGR-1244

TPF collection support functions *(continued)*

T02_createReadWriteCursor CLS-UGR-1131
 T02_createRecoupIndex CLS-UGR-998
 T02_createSequence CLS-UGR-1000
 T02_createSequenceTemp CLS-UGR-1002
 T02_createSequenceWithOptions CLS-UGR-1004
 T02_createSet CLS-UGR-1006
 T02_createSetTemp CLS-UGR-1008
 T02_createSetWithOptions CLS-UGR-1010
 T02_createSortedBag CLS-UGR-1013
 T02_createSortedBagTemp CLS-UGR-1015
 T02_createSortedBagWithOptions CLS-UGR-1017
 T02_createSortedSet CLS-UGR-1019
 T02_createSortedSetTemp CLS-UGR-1021
 T02_createSortedSetWithOptions CLS-UGR-1023
 T02_cursorMinus CLS-UGR-1133
 T02_cursorPlus CLS-UGR-1135
 T02_defineBrowseNameForPID CLS-UGR-1246
 T02_definePropertyForPID CLS-UGR-1028
 T02_definePropertyWithModeForPID CLS-UGR-1031
 T02_deleteAllPropertiesFromPID CLS-UGR-1034
 T02_deleteBrowseName CLS-UGR-1248
 T02_deleteCollection CLS-UGR-1036
 T02_deleteCursor CLS-UGR-1137
 T02_deleteDD CLS-UGR-1250
 T02_deleteDS CLS-UGR-1252
 T02_deleteEnv CLS-UGR-876
 T02_deletePID CLS-UGR-1352
 T02_deletePropertyFromPID CLS-UGR-1038
 T02_deleteRecoupIndex CLS-UGR-1040
 T02_deleteRecoupIndexEntry CLS-UGR-1041
 T02_first CLS-UGR-1139
 T02_getAllPropertyNamesFromPID CLS-UGR-1043
 T02_getBLOB CLS-UGR-1045
 T02_getBLOBWithBuffer CLS-UGR-1047
 T02_getBrowseDictPID CLS-UGR-1254
 T02_getClassAttributes CLS-UGR-1256
 T02_getClassDocumentation CLS-UGR-1258
 T02_getClassInfo CLS-UGR-1260
 T02_getClassNames CLS-UGR-1262
 T02_getClassTree CLS-UGR-1264
 T02_getCollectionAccessMode CLS-UGR-1049
 T02_getCollectionAttributes CLS-UGR-1266
 T02_getCollectionKeys CLS-UGR-1051
 T02_getCollectionName CLS-UGR-1268
 T02_getCollectionParts CLS-UGR-1270
 T02_getCollectionType CLS-UGR-1053
 T02_getCreateTime CLS-UGR-1272
 T02_getCurrentKey CLS-UGR-1141
 T02_getCurrentKeyWithBuffer CLS-UGR-1143
 T02_getDDAttributes CLS-UGR-1274
 T02_getDirectoryForRRN CLS-UGR-1276
 T02_getDRprotect CLS-UGR-1055
 T02_getDSAttributes CLS-UGR-1278
 T02_getDSdictPID CLS-UGR-1212
 T02_getDSnameForPID CLS-UGR-1280
 T02_getErrorCode CLS-UGR-877
 T02_getErrorText CLS-UGR-879
 T02_getKeyPathAttributes CLS-UGR-1281
 T02_getListDDnames CLS-UGR-1283
 T02_getListDScollections CLS-UGR-1285

TPF collection support functions *(continued)*

T02_getListDSnames CLS-UGR-1287
 T02_getListUsers CLS-UGR-1289
 T02_getMaxDataLength CLS-UGR-1057
 T02_getMaxKeyLength CLS-UGR-1058
 T02_getMethodDocumentation CLS-UGR-1291
 T02_getMethodNames CLS-UGR-1293
 T02_getNumberOfRecords CLS-UGR-1295
 T02_getPathInfoFor CLS-UGR-1296
 T02_getPIDforBrowseName CLS-UGR-1299
 T02_getPIDinventoryEntry CLS-UGR-1301
 T02_getPIDinventoryPID CLS-UGR-1303
 T02_getPropertyValueFromPID CLS-UGR-1060
 T02_getRecordAttributes CLS-UGR-1305
 T02_getRecoupIndex CLS-UGR-1307
 T02_getRecoupIndexForPID CLS-UGR-1310
 T02_getSortFieldValues CLS-UGR-1062
 T02_getTPFDictPID CLS-UGR-1214
 T02_getUserAttributes CLS-UGR-1312
 T02_includes CLS-UGR-1064
 T02_index CLS-UGR-1145
 T02_isCollection CLS-UGR-1066
 T02_isDDdefined CLS-UGR-1314
 T02_isEmpty CLS-UGR-1147
 T02_isExtended CLS-UGR-1316
 T02_isPropertyDefinedForPID CLS-UGR-1068
 T02_isTemp CLS-UGR-1070
 T02_key CLS-UGR-1149
 T02_keyWithBuffer CLS-UGR-1151
 T02_last CLS-UGR-1153
 T02_locate CLS-UGR-1155
 T02_makeEmpty CLS-UGR-1072
 T02_maxEntry CLS-UGR-1074
 T02_migrateCollection CLS-UGR-1318
 T02_migrateDS CLS-UGR-1320
 T02_more CLS-UGR-1157
 T02_next CLS-UGR-1159
 T02_nextPut CLS-UGR-1161
 T02_nextRBAfor CLS-UGR-1163
 T02_nextWithBuffer CLS-UGR-1165
 T02_peek CLS-UGR-1168
 T02_peekWithBuffer CLS-UGR-1170
 T02_previous CLS-UGR-1172
 T02_previousWithBuffer CLS-UGR-1174
 T02_readOnly CLS-UGR-1076
 T02_reclaimPID CLS-UGR-1322
 T02_reconstructCollection CLS-UGR-1323
 T02_recoupCollection CLS-UGR-1325
 T02_recoupDS CLS-UGR-1327
 T02_recoupPT CLS-UGR-1329
 T02_recreateDS CLS-UGR-1330
 T02_remove CLS-UGR-1176
 T02_removeBrowseKey CLS-UGR-1332
 T02_removeDSdictKey CLS-UGR-1215
 T02_removeDSsystemKey CLS-UGR-1217
 T02_removeIndex CLS-UGR-1078
 T02_removeKey CLS-UGR-1080
 T02_removeKeyPath CLS-UGR-1082
 T02_removeRBA CLS-UGR-1084
 T02_removeRecoupIndexFromPID CLS-UGR-1086
 T02_removeTPFKey CLS-UGR-1219

TPF collection support functions *(continued)*

- T02_removeTPFsystemKey CLS-UGR-1221
- T02_removeValue CLS-UGR-1088
- T02_removeValueAll CLS-UGR-1090
- T02_replaceBLOB CLS-UGR-1092
- T02_reset CLS-UGR-1178
- T02_restart CLS-UGR-1334
- T02_restore CLS-UGR-1094
- T02_restoreAsTemp CLS-UGR-1096
- T02_restoreWithOptions CLS-UGR-1098
- T02_setClass CLS-UGR-1354
- T02_setCollectionAccessMode CLS-UGR-1101
- T02_setDRprotect CLS-UGR-1103
- T02_setGetTextDump CLS-UGR-1335
- T02_setKeyPath CLS-UGR-1180
- T02_setMethodTrace CLS-UGR-1337
- T02_setPositionIndex CLS-UGR-1182
- T02_setPositionValue CLS-UGR-1184
- T02_setReadOnly CLS-UGR-1105
- T02_setSize CLS-UGR-1107
- T02_size CLS-UGR-1109
- T02_taskDispatch CLS-UGR-1339
- T02_validateCollection CLS-UGR-1340
- T02_validateKeyPath CLS-UGR-1342
- T02_writeNewBLOB CLS-UGR-1111

TPF collection support, initializing

- ZOODB INIT command OPR-GDE-1097
- ZOODB SET command OPR-GDE-1102

TPF collection support

- API changes MIG-GD2-420
- APIs CON-STR-167
- architecture MIG-GD2-405
- archiving support CON-STR-166
- bag, creating CLS-UGR-939, CLS-UGR-943
- benefits CON-STR-159
- BLOB, creating CLS-UGR-945
- browse support CON-STR-168
- browse support, APIs CLS-UGR-1223
- C/C++ language MIG-GD2-406
- capture and restore support CON-STR-166
- CINFC tags MIG-GD2-408
- commands MIG-GD2-414
- concurrency controls CON-STR-165
- CONKC tags MIG-GD2-408
- copy members MIG-GD2-408
- copy, creating and returning its PID CLS-UGR-931
- database access CON-STR-165
- database archives CON-STR-166
- database changes MIG-GD2-421
- error handling APP-GDE-103, CLS-UGR-860, CON-STR-167
- feature changes MIG-GD2-421
- fixed file records MIG-GD2-409, SYS-GEN-162
- functional changes MIG-GD2-414
- functional overview MIG-GD2-403
- host system changes MIG-GD2-420
- installation validation MIG-GD2-421
- interfaces MIG-GD2-406
- key bag, creating CLS-UGR-954, CLS-UGR-958
- key path support CON-STR-162
- key set, creating CLS-UGR-966, CLS-UGR-970

TPF collection support *(continued)*

- key sorted bag, creating CLS-UGR-972
- key sorted set, creating CLS-UGR-978
- keyed log, creating CLS-UGR-960, CLS-UGR-964
- loading process MIG-GD2-420
- log, creating CLS-UGR-984, CLS-UGR-988
- lowercase characters MIG-GD2-404
- macros MIG-GD2-409
- migration scenarios MIG-GD2-421
- offline messages MIG-GD2-414
- online messages MIG-GD2-414
- online system load MIG-GD2-420
- operating environment requirements MIG-GD2-405
- operational changes MIG-GD2-414
- overview APP-GDE-101, CON-STR-159, MIG-GD2-21, MIG-GD2-22, MIG-GD2-403
- performance changes MIG-GD2-419
- planning information MIG-GD2-405
- prerequisite APARs MIG-GD2-403
- properties, collection CON-STR-164
- publication changes MIG-GD2-420
- reconstruction support CON-STR-166
- restarting at cycle up CLS-UGR-1334
- returned data structures APP-GDE-106
- segments MIG-GD2-412, MIG-GD2-531
- sequence collection, creating CLS-UGR-1000, CLS-UGR-1004
- set, creating CLS-UGR-1006, CLS-UGR-1010
- shadowing support CON-STR-166
- SIP changes MIG-GD2-420
- sorted bag, creating CLS-UGR-1013
- sorted set, creating CLS-UGR-1019
- special characters MIG-GD2-404
- storage changes MIG-GD2-420
- storage considerations MIG-GD2-420
- storing data on a TPF database SYS-GEN-162
- structures CLS-UGR-859
- supported collections CON-STR-163
- system equates MIG-GD2-413
- system errors MIG-GD2-414
- system generation changes MIG-GD2-420
- TPF transaction services CON-STR-166
- tuning changes MIG-GD2-419
- type definitions APP-GDE-102
- user exits MIG-GD2-413
- validation support CON-STR-166
- ZBROW commands CON-STR-168
- ZOODB commands CON-STR-167

TPF complex GIM-31, MPI-PRM-3

TPF complex name in CTKI AR-USG-22

TPF configuration file

- /etc/tpf_mail.conf CLAWGR-259
- creating CLAWGR-259
- general discussion CLAWGR-259
- parameters CLAWGR-263

TPF CP names

- define for TPF Advanced Peer-to-Peer Networking (TPF/APPN) MIG-GD2-160

TPF CP segments deviations PSM-GDE-29

TPF data event control block (DECB) support

- API changes MIG-GD2-934

TPF data event control block (DECB) support

(continued)

- architecture MIG-GD2-924
- book changes MIG-GD2-933
- C/C++ language MIG-GD2-924
- CINFC tags MIG-GD2-926
- commands MIG-GD2-932
- CONKC tags MIG-GD2-926
- copy members MIG-GD2-926
- database changes MIG-GD2-934
- feature changes MIG-GD2-935
- fixed file records MIG-GD2-927
- functional changes MIG-GD2-931
- functional overview MIG-GD2-923
- host system changes MIG-GD2-934
- installation validation MIG-GD2-935
- interfaces MIG-GD2-924
- loading process MIG-GD2-933
- macros MIG-GD2-927
- migration scenarios MIG-GD2-935
- offline messages MIG-GD2-932
- online messages MIG-GD2-932
- online system load MIG-GD2-933
- operating environment requirements MIG-GD2-924
- operational changes MIG-GD2-931
- overview MIG-GD2-22, MIG-GD2-923
- performance changes MIG-GD2-933
- planning information MIG-GD2-924
- prerequisite APARs MIG-GD2-923
- segments MIG-GD2-931
- SIP changes MIG-GD2-933
- storage changes MIG-GD2-933
- storage considerations MIG-GD2-933
- system equates MIG-GD2-931
- system errors MIG-GD2-932
- system generation changes MIG-GD2-933
- tuning changes MIG-GD2-933
- user exits MIG-GD2-931

TPF Database Facility (TPPDF)

- database administrator (DBA) CON-STR-150
- Distributed Data Architecture (DDA) CON-STR-150
- errors, testing for SPM-19
- overview MIG-GD1-20
- software requirements MIG-GD1-201, MIG-GD2-51
- structured programming macros (SPMs) MIG-GD1-18
- testing SW00RTN SPM-13
- TPPDF keyword MIG-GD1-262

TPF DB2 postprocessor (TPF DB2PP) AR-USG-34

TPF DB2 postprocessor (TPF DB2PP)

- invoking AR-USG-36
- required parameter AR-USG-36
- sample JCL to run TPF DB2PP AR-USG-36
- strings altered AR-USG-35

TPF DB2PP (TPF DB2 Postprocessor) AR-USG-34

TPF DB2PP (TPF DB2 postprocessor)

- sample JCL to run TPF DB2PP AR-USG-36

TPF DB2PP (TPF DB2 Postprocessor)

- invoking AR-USG-36
- required parameter AR-USG-36
- strings altered AR-USG-35

TPF design process

description SYS-GEN-5

diagram SYS-GEN-6

TPF features

HPO (High Performance Option) GIM-12

MPIF (Multi-Processor Interconnect Facility) GIM-12

Softcopy Publications Features GIM-12

TPFAR (TPF Application Requester) GIM-12

TPF file system file names PSM-GDE-22

TPF file system support

C language functions

path name rules CLS-UGR-1408

programming interfaces

list of functions CLS-UGR-1405

pointers and file descriptors CLS-UGR-1409

security CLS-UGR-1409

TPF host name table CLAWGR-101

TPF image

clearing OPR-GDE-614

defining OPR-GDE-619

disabling OPR-GDE-621

displaying OPR-GDE-622

enabling OPR-GDE-626

setting primary OPR-GDE-635

ZIMAG CLEAR command OPR-GDE-614

ZIMAG DEFINE command OPR-GDE-619

ZIMAG DISABLE command OPR-GDE-621

ZIMAG DISPLAY command OPR-GDE-622

ZIMAG ENABLE command OPR-GDE-626

ZIMAG PRIMARY command OPR-GDE-635

TPF input message tokenization support macro

GEN-MAC-40

TPF Internet mail functions

mail CLS-UGR-320

TPF Internet mail server enhancements for PUT 15

API changes MIG-GD2-1109

architecture MIG-GD2-1104

C/C++ language MIG-GD2-1104

CINFC tags MIG-GD2-1106

commands MIG-GD2-1107

CONKC tags MIG-GD2-1106

copy members MIG-GD2-1106

database changes MIG-GD2-1109

feature changes MIG-GD2-1109

fixed file records MIG-GD2-1106

functional changes MIG-GD2-1107

functional overview MIG-GD2-1104

host system changes MIG-GD2-1109

installation validation MIG-GD2-1109

interfaces MIG-GD2-1104

loading process MIG-GD2-1108

macros MIG-GD2-1106

migration scenarios MIG-GD2-1109

offline messages MIG-GD2-1108

online messages MIG-GD2-1108

online system load MIG-GD2-1108

operating environment requirements MIG-GD2-1104

operational changes MIG-GD2-1107

overview MIG-GD2-1104

performance changes MIG-GD2-1108

planning information MIG-GD2-1104

TPF Internet mail server enhancements for PUT 15
(*continued*)

- prerequisite APARs MIG-GD2-1104
- publication changes MIG-GD2-1109
- segments MIG-GD2-1107
- SIP changes MIG-GD2-1108
- storage changes MIG-GD2-1108
- storage considerations MIG-GD2-1108
- system equates MIG-GD2-1107
- system errors MIG-GD2-1108
- system generation changes MIG-GD2-1108
- tuning changes MIG-GD2-1108
- user exits MIG-GD2-1107

TPF Internet mail server recoup considerations
DBS-REF-105

TPF Internet mail server summary report SPM-PRM-33

TPF Internet mail server support SYS-GEN-107,
SYS-GEN-110

TPF Internet mail server support

- access control list (ACL)
 - deleting users from OPR-GDE-722
 - displaying OPR-GDE-726
 - setting OPR-GDE-742

- API changes MIG-GD2-984

- architecture MIG-GD2-973

- C/C++ language MIG-GD2-975

- CINFC tags MIG-GD2-978

- commands MIG-GD2-981

- CONKC tags MIG-GD2-978

- copy members MIG-GD2-978

- database changes MIG-GD2-984

- description of CON-STR-190

- feature changes MIG-GD2-985

- fixed file records MIG-GD2-978

- functional changes MIG-GD2-980

- functional overview MIG-GD2-973

- hardware MIG-GD2-975

- host system changes MIG-GD2-984

- IMAP server CON-STR-190

- installation validation MIG-GD2-985

- interfaces MIG-GD2-975

- Internet mail account

- creating OPR-GDE-720

- deleting OPR-GDE-724

- display the path to OPR-GDE-738

- setting a password for OPR-GDE-736

- loading process MIG-GD2-983

- macros MIG-GD2-978

- mailbox

- creating OPR-GDE-720

- deleting OPR-GDE-724

- displaying OPR-GDE-728

- displaying storage for OPR-GDE-730,
OPR-GDE-733

- displaying users for OPR-GDE-726

- renaming OPR-GDE-740

- setting storage limits for OPR-GDE-745

- migration scenarios MIG-GD2-985

- offline messages MIG-GD2-981

- online messages MIG-GD2-981

- online system load MIG-GD2-983

TPF Internet mail server support (*continued*)

- operating environment requirements MIG-GD2-975

- operational changes MIG-GD2-980

- overview MIG-GD2-23, MIG-GD2-973

- performance changes MIG-GD2-983

- planning information MIG-GD2-975

- POP server CON-STR-190

- prerequisite APARs MIG-GD2-973

- publication changes MIG-GD2-984

- segments MIG-GD2-980

- SIP changes MIG-GD2-983

- SMTP server CON-STR-190

- software (programming requirements) MIG-GD2-975

- storage changes MIG-GD2-983

- storage considerations MIG-GD2-983

- system equates MIG-GD2-980

- system errors MIG-GD2-981

- system generation changes MIG-GD2-983

- tuning changes MIG-GD2-983

- user exits MIG-GD2-980

- ZMAIL command OPR-GDE-714

- ZMAIL CREATEMAILBOX command OPR-GDE-720

- ZMAIL DELETEACLMAILBOX command

- OPR-GDE-722

- ZMAIL DELETEMAILBOX command OPR-GDE-724

- ZMAIL LISTACLMAILBOX command OPR-GDE-726

- ZMAIL LISTMAILBOX command OPR-GDE-728

- ZMAIL LISTQUOTA command OPR-GDE-730

- ZMAIL LISTQUOTAROOT command OPR-GDE-733

- ZMAIL PASSWORD command OPR-GDE-736

- ZMAIL PATH command OPR-GDE-738

- ZMAIL RENAMEMAILBOX command OPR-GDE-740

- ZMAIL SETACLMAILBOX command OPR-GDE-742

- ZMAIL SETQUOTA command OPR-GDE-745

TPF Internet mail server

- #MAILxx record CLAWGR-255, CLAWGR-258

- access control list (ACL) CLAWGR-256

- access list CLAWGR-259

- active queue CLAWGR-257

- active queue control record CLAWGR-257

- active queue record CLAWGR-257

- adding an entry to IDCF CLAWGR-267

- adding new users CLAWGR-268

- administrator tasks CLAWGR-265

- client tasks CLAWGR-269

- configuration files CLAWGR-259

- configuring CLAWGR-265

- controlling CLAWGR-268

- database layout CLAWGR-255

- deferred queue CLAWGR-257

- deferred queue control record CLAWGR-257

- deferred queue record CLAWGR-257

- IMAP CLAWGR-253

- mail queue CLAWGR-257

- managing mailboxes CLAWGR-269

- operator tasks CLAWGR-265

- overview CLAWGR-253

- POP CLAWGR-253

- receiving mail CLAWGR-269

- recoup considerations CLAWGR-258

- sending mail CLAWGR-269

TPF Internet mail server (*continued*)
 SMTP CLAWGR–253
 updating CLAWGR–267
 user profile record (UPR) CLAWGR–255

TPF Internet mail servers
 checking status of OPR-GDE–714
 controlling OPR-GDE–714
 general discussion APP-GDE–175
 IMAP server APP-GDE–175
 logging messages OPR-GDE–714
 POP server APP-GDE–175
 SMTP server APP-GDE–175

TPF Internet server support
 tpf_fork function considerations MIG-GD2–521
 access permissions MIG-GD2–506
 API changes MIG-GD2–522
 architecture MIG-GD2–505
 C/C++ language MIG-GD2–507
 CINFC tags MIG-GD2–514
 commands MIG-GD2–518
 CONKC tags MIG-GD2–514
 copy members MIG-GD2–514
 creating a child process MIG-GD2–506
 database changes MIG-GD2–523
 description of CON-STR–191
 feature changes MIG-GD2–523
 fixed file records MIG-GD2–515
 functional changes MIG-GD2–518
 functional overview MIG-GD2–504
 hardware MIG-GD2–507
 host system changes MIG-GD2–522
 Hypertext Transfer Protocol (HTTP) server
 MIG-GD2–504, MIG-GD2–506
 installation validation MIG-GD2–523
 interfaces MIG-GD2–507
 Internet daemon MIG-GD2–504
 Internet daemon configuration file (IDCF)
 MIG-GD2–505
 Internet daemon listener MIG-GD2–505
 Internet daemon monitor MIG-GD2–505
 Internet servers MIG-GD2–504
 loading process MIG-GD2–522
 macros MIG-GD2–515
 maintaining the Internet daemon MIG-GD2–506
 migration scenarios MIG-GD2–524
 mixed-case support MIG-GD2–507
 offline messages MIG-GD2–518
 online messages MIG-GD2–518
 online system load MIG-GD2–522
 operating environment requirements MIG-GD2–507
 operational changes MIG-GD2–518
 overview MIG-GD2–23, MIG-GD2–504
 performance changes MIG-GD2–520
 performance measurement MIG-GD2–506
 planning information MIG-GD2–507
 porting Internet server applications MIG-GD2–504
 prerequisite APARs MIG-GD2–504
 publication changes MIG-GD2–522
 retrieving TPF data MIG-GD2–504
 segments MIG-GD2–517
 SIP changes MIG-GD2–521

TPF Internet server support (*continued*)
 software (programming requirements) MIG-GD2–507
 starting a TPF application MIG-GD2–506
 starting TPF applications MIG-GD2–504
 storage changes MIG-GD2–521
 storage considerations MIG-GD2–521
 system equates MIG-GD2–517
 system errors MIG-GD2–518
 system generation changes MIG-GD2–521
 system work block (SWB) considerations
 MIG-GD2–520
 Trivial File Transfer Protocol (TFTP) configuration file
 MIG-GD2–505
 Trivial File Transfer Protocol (TFTP) server
 MIG-GD2–504, MIG-GD2–505
 Trivial File Transfer Protocol (TFTP) server
 considerations MIG-GD2–521
 tuning changes MIG-GD2–520
 user exits MIG-GD2–517
 Web pages MIG-GD2–504
 web site MIG-GD2–504

TPF logical record cache summary report SPM-PRM–29

TPF loosely coupled complex MPI-PRM–3

TPF Macro name deviations PSM-GDE–29

TPF macro processing restrictions INS-PRM–8

TPF Mapping Support SNA-PRM–42

TPF Migration Guide: Program Update Tapes
 migration aid MIG-GD1–15

TPF MQSeries clear queue support and display
 enhancements
 API changes MIG-GD2–1233
 architecture MIG-GD2–1230
 C/C++ language MIG-GD2–1230
 CINFC tags MIG-GD2–1231
 commands MIG-GD2–1232
 CONKC tags MIG-GD2–1231
 copy members MIG-GD2–1231
 database changes MIG-GD2–1233
 feature changes MIG-GD2–1233
 fixed file records MIG-GD2–1231
 functional changes MIG-GD2–1232
 functional overview MIG-GD2–1230
 host system changes MIG-GD2–1233
 installation validation MIG-GD2–1233
 interfaces MIG-GD2–1230
 loading process MIG-GD2–1233
 macros MIG-GD2–1231
 migration scenarios MIG-GD2–1233
 offline messages MIG-GD2–1232
 online messages MIG-GD2–1232
 online system load MIG-GD2–1233
 operating environment requirements MIG-GD2–1230
 operational changes MIG-GD2–1232
 overview MIG-GD2–24, MIG-GD2–25,
 MIG-GD2–1230
 performance changes MIG-GD2–1233
 planning information MIG-GD2–1230
 prerequisite APARs MIG-GD2–1230
 publication changes MIG-GD2–1233
 segments MIG-GD2–1231
 SIP changes MIG-GD2–1233

TPF MQSeries clear queue support and display enhancements (*continued*)

- storage changes MIG-GD2-1233
- storage considerations MIG-GD2-1233
- system equates MIG-GD2-1232
- system errors MIG-GD2-1232
- system generation changes MIG-GD2-1233
- tuning changes MIG-GD2-1233
- user exits MIG-GD2-1232

TPF MQSeries enhancements

- API changes MIG-GD2-945
- C/C++ language MIG-GD2-938
- CINFC tags MIG-GD2-941
- commands MIG-GD2-943
- CONKC tags MIG-GD2-941
- copy members MIG-GD2-941
- database changes MIG-GD2-945
- feature changes MIG-GD2-945
- fixed file records MIG-GD2-941
- functional changes MIG-GD2-943
- functional overview MIG-GD2-937
- hardware MIG-GD2-937
- host system changes MIG-GD2-945
- installation validation MIG-GD2-945
- interfaces MIG-GD2-938
- loading process MIG-GD2-944
- macros MIG-GD2-941
- migration scenarios MIG-GD2-945
- offline messages MIG-GD2-943
- online messages MIG-GD2-943
- online system load MIG-GD2-944
- operating environment requirements MIG-GD2-937
- operational changes MIG-GD2-943
- overview MIG-GD2-937
- performance changes MIG-GD2-944
- planning information MIG-GD2-937
- prerequisite APARs MIG-GD2-937
- publication changes MIG-GD2-944
- segments MIG-GD2-942
- SIP changes MIG-GD2-944
- software (programming requirements) MIG-GD2-937
- storage changes MIG-GD2-944
- storage considerations MIG-GD2-944
- system equates MIG-GD2-942
- system errors MIG-GD2-943
- system generation changes MIG-GD2-944
- tuning changes MIG-GD2-944
- user exits MIG-GD2-942

TPF MQSeries functions

- MQBACK CLS-UGR-333
- MQCLOSE CLS-UGR-335
- MQCMIT CLS-UGR-337
- MQCONN CLS-UGR-339
- MQDISC CLS-UGR-341
- MQGET CLS-UGR-343
- MQINQ CLS-UGR-349
- MQOPEN CLS-UGR-355
- MQPUT CLS-UGR-359
- MQPUT1 CLS-UGR-365
- MQSET CLS-UGR-372

TPF MQSeries local queue manager support PDV-PRM-153

TPF MQSeries local queue manager support enhancements

- API changes MIG-GD2-623
- architecture MIG-GD2-614
- C/C++ language MIG-GD2-615
- CINFC tags MIG-GD2-619
- commands MIG-GD2-620
- CONKC tags MIG-GD2-618
- copy members MIG-GD2-619
- database changes MIG-GD2-623
- feature changes MIG-GD2-623
- fixed file records MIG-GD2-619
- functional changes MIG-GD2-620
- functional overview MIG-GD2-614
- host system changes MIG-GD2-623
- installation validation MIG-GD2-623
- interfaces MIG-GD2-615
- loading process MIG-GD2-622
- macros MIG-GD2-619
- migration scenarios MIG-GD2-623
- offline messages MIG-GD2-621
- online messages MIG-GD2-621
- online system load MIG-GD2-622
- operating environment requirements MIG-GD2-615
- operational changes MIG-GD2-620
- overview MIG-GD2-24, MIG-GD2-614
- performance changes MIG-GD2-622
- planning information MIG-GD2-615
- prerequisite APARs MIG-GD2-614
- publication changes MIG-GD2-622
- segments MIG-GD2-620
- SIP changes MIG-GD2-622
- software (programming requirements) MIG-GD2-615
- storage changes MIG-GD2-622
- storage considerations MIG-GD2-622
- system equates MIG-GD2-620
- system errors MIG-GD2-621
- system generation changes MIG-GD2-622
- tuning changes MIG-GD2-622
- user exits MIG-GD2-620

TPF MQSeries local queue manager support

trace support

- overview PDV-PRM-153
- postprocessing data PDV-PRM-154
- using PDV-PRM-154

TPF MQSeries message channel report SPM-PRM-79

TPF MQSeries message queue report SPM-PRM-79

TPF MQSeries server support

- API changes MIG-GD2-1242
- architecture MIG-GD2-1235
- C/C++ language MIG-GD2-1235
- CINFC tags MIG-GD2-1238
- commands MIG-GD2-1240
- CONKC tags MIG-GD2-1238
- copy members MIG-GD2-1238
- database changes MIG-GD2-1242
- feature changes MIG-GD2-1242
- fixed file records MIG-GD2-1238
- functional changes MIG-GD2-1240

TPF MQSeries server support *(continued)*

- functional overview MIG-GD2-1235
- host system changes MIG-GD2-1242
- installation validation MIG-GD2-1242
- interfaces MIG-GD2-1235
- loading process MIG-GD2-1241
- macros MIG-GD2-1238
- migration scenarios MIG-GD2-1243
- offline messages MIG-GD2-1240
- online messages MIG-GD2-1240
- online system load MIG-GD2-1241
- operating environment requirements MIG-GD2-1235
- operational changes MIG-GD2-1240
- overview MIG-GD2-1235
- performance changes MIG-GD2-1241
- planning information MIG-GD2-1235
- prerequisite APARs MIG-GD2-1235
- publication changes MIG-GD2-1242
- segments MIG-GD2-1239
- SIP changes MIG-GD2-1241
- storage changes MIG-GD2-1241
- storage considerations MIG-GD2-1241
- system equates MIG-GD2-1239
- system errors MIG-GD2-1240
- system generation changes MIG-GD2-1241
- tuning changes MIG-GD2-1241
- user exits MIG-GD2-1240

TPF MQSeries support

- channel definitions APP-GDE-86
- channels APP-GDE-86
- checkpoint APP-GDE-87
- client APP-GDE-79
- CPU parameter APP-GDE-86
- defining APP-GDE-86
- deleting queues APP-GDE-87
- local queue manager APP-GDE-80, CON-STR-184
- local queue manager
 - administering APP-GDE-86
 - channels APP-GDE-83
 - empty queue trigger user exit APP-GDE-80
 - message routing APP-GDE-82
 - processor unique vs. processor shared APP-GDE-83
 - route bridge APP-GDE-84
 - supported queue types APP-GDE-80
 - transaction manager APP-GDE-85
- local queues APP-GDE-86
- memory allocation APP-GDE-87
- overview APP-GDE-79
- processor shared APP-GDE-86
- processor shared queues browsing APP-GDE-85
- profile APP-GDE-86
- sweep APP-GDE-87
- trace APP-GDE-85
- transmission queues APP-GDE-84
- transmission queues
 - monitoring depth APP-GDE-83
 - swinging APP-GDE-84

TPF MQSeries

- alias queue
 - changing definition for OPR-GDE-848

TPF MQSeries *(continued)*

- alias queue *(continued)*
 - defining OPR-GDE-868
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - tracing OPR-GDE-911
 - ZMQSC ALT QA command OPR-GDE-848
 - ZMQSC DEF QA command OPR-GDE-868
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - ZMQSC TRACE command OPR-GDE-911
- channel
 - changing definition for OPR-GDE-837
 - defining OPR-GDE-856, OPR-GDE-857, OPR-GDE-859
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - displaying status of OPR-GDE-881
 - resetting OPR-GDE-902
 - resolving OPR-GDE-903
 - starting OPR-GDE-905
 - stopping OPR-GDE-907
 - tracing OPR-GDE-911
 - ZMQSC ALT CHL command OPR-GDE-837
 - ZMQSC CLEAR QL command OPR-GDE-856
 - ZMQSC DBREBUILD command OPR-GDE-857
 - ZMQSC DEF CHL command OPR-GDE-859
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - ZMQSC RESET command OPR-GDE-902
 - ZMQSC RESOLVE command OPR-GDE-903
 - ZMQSC START command OPR-GDE-905
 - ZMQSC STOP command OPR-GDE-907
 - ZMQSC TRACE command OPR-GDE-911
- local queue
 - changing definition for OPR-GDE-850
 - defining OPR-GDE-870
 - deleting OPR-GDE-878
 - displaying definition of OPR-GDE-881
 - tracing OPR-GDE-911
 - ZMQSC ALT QL command OPR-GDE-850
 - ZMQSC DEF QL command OPR-GDE-870
 - ZMQSC DEL command OPR-GDE-878
 - ZMQSC DISPLAY command OPR-GDE-881
 - ZMQSC TRACE command OPR-GDE-911
- memory queue
 - moving messages OPR-GDE-900
- migrating queues OPR-GDE-898
- profile
 - changing OPR-GDE-843, OPR-GDE-846
 - defining OPR-GDE-864, OPR-GDE-866
 - displaying OPR-GDE-881
 - ZMQSC ALT MQP command OPR-GDE-843
 - ZMQSC ALT PROCESS command OPR-GDE-846
 - ZMQSC DEF MQP command OPR-GDE-864
 - ZMQSC DEF PROCESS command OPR-GDE-866
 - ZMQSC DISPLAY command OPR-GDE-881
- queue manager alias
 - defining OPR-GDE-875

TPF MQSeries *(continued)*
 queue manager alias *(continued)*
 ZMQSC DEF QR command OPR-GDE-875
 queue manager
 changing OPR-GDE-843, OPR-GDE-846
 defining OPR-GDE-864, OPR-GDE-866
 starting OPR-GDE-905
 stopping OPR-GDE-907
 ZMQSC ALT MQP command OPR-GDE-843
 ZMQSC ALT PROCESS command
 OPR-GDE-846
 ZMQSC DEF MQP command OPR-GDE-864
 ZMQSC DEF PROCESS command
 OPR-GDE-866
 ZMQSC START command OPR-GDE-905
 ZMQSC STOP command OPR-GDE-907
 remote queue
 changing definition for OPR-GDE-854
 defining OPR-GDE-875
 deleting OPR-GDE-878
 displaying definition of OPR-GDE-881
 tracing OPR-GDE-911
 ZMQSC ALT QR command OPR-GDE-854
 ZMQSC DEF QR command OPR-GDE-875
 ZMQSC DEL command OPR-GDE-878
 ZMQSC DISPLAY command OPR-GDE-881
 ZMQSC TRACE command OPR-GDE-911
 tracing commands OPR-GDE-911
 transmission queue
 changing OPR-GDE-854
 defining OPR-GDE-870, OPR-GDE-875
 moving messages OPR-GDE-909
 ZMQSC ALT QR command OPR-GDE-854
 ZMQSC DEF QL command OPR-GDE-870
 ZMQSC DEF QR command OPR-GDE-875
 ZMQSC SWQ command OPR-GDE-909
 ZMQSC ALT CHL command OPR-GDE-837
 ZMQSC ALT MQP command OPR-GDE-843
 ZMQSC ALT PROCESS command OPR-GDE-846
 ZMQSC ALT QA command OPR-GDE-848
 ZMQSC ALT QL command OPR-GDE-850
 ZMQSC ALT QR command OPR-GDE-854
 ZMQSC CLEAR QL command OPR-GDE-856
 ZMQSC DBREBUILD command OPR-GDE-857
 ZMQSC DEF CHL command OPR-GDE-859
 ZMQSC DEF MQP command OPR-GDE-864
 ZMQSC DEF PROCESS command OPR-GDE-866
 ZMQSC DEF QA command OPR-GDE-868
 ZMQSC DEF QL command OPR-GDE-870
 ZMQSC DEF QR command OPR-GDE-875
 ZMQSC DEL command OPR-GDE-878
 ZMQSC DISPLAY command OPR-GDE-881
 ZMQSC MIGRATE command OPR-GDE-898
 ZMQSC MOVEMSGS command OPR-GDE-900
 ZMQSC RESET command OPR-GDE-902
 ZMQSC RESOLVE command OPR-GDE-903
 ZMQSC START command OPR-GDE-905
 ZMQSC STOP command OPR-GDE-907
 ZMQSC SWQ command OPR-GDE-909
 ZMQSC TRACE command OPR-GDE-911

 TPF network
 SNAKEY macro
 network parameters ACF-GDE-14
 TPF Performance Execution Trace Analyzer for
 VisualAge Client
 overview MIG-GD2-25
 TPF register save area APP-GDE-38
 TPF requirements for TPFAR AR-USG-11
 TPF requirements for TPFAR
 SIP CONFIG macro changes AR-USG-11
 TPF SNA overview SNA-PRM-1
 TPF storage requirements for TPFAR
 #IBMMP4 records AR-USG-14
 and ECB processing AR-USG-14
 LU 6.2 Fastpath AR-USG-14
 malloc AR-USG-14
 record ID X'FF0F' AR-USG-14
 short term pools AR-USG-14
 TPF Support for VisualAge Client
 API changes MIG-GD2-708
 architecture MIG-GD2-700
 C/C++ language MIG-GD2-701
 commands MIG-GD2-706
 CONKC tags MIG-GD2-704
 copy members MIG-GD2-704
 database changes MIG-GD2-708
 feature changes MIG-GD2-708
 fixed file records MIG-GD2-704
 functional changes MIG-GD2-706
 functional overview MIG-GD2-700
 host system changes MIG-GD2-708
 installation validation MIG-GD2-708
 interfaces MIG-GD2-701
 loading process MIG-GD2-707
 macros MIG-GD2-704
 migration scenarios MIG-GD2-708
 offline messages MIG-GD2-706
 online messages MIG-GD2-706
 online system load MIG-GD2-707
 operating environment requirements MIG-GD2-701
 operational changes MIG-GD2-706
 overview MIG-GD2-26, MIG-GD2-700
 performance changes MIG-GD2-707
 planning information MIG-GD2-701
 prerequisite APARs MIG-GD2-700
 publication changes MIG-GD2-707
 segments MIG-GD2-706
 SIP changes MIG-GD2-707
 storage changes MIG-GD2-707
 storage considerations MIG-GD2-707
 system equates MIG-GD2-706
 system errors MIG-GD2-706
 system generation changes MIG-GD2-707
 tuning changes MIG-GD2-707
 user exits MIG-GD2-706
 TPF system MPI-PRM-3
 TPF system
 date
 displaying OPR-GDE-298
 status information
 displaying OPR-GDE-1299

TPF system *(continued)*

time

- changing OPR-GDE-90
- displaying OPR-GDE-387

- ZATIM command OPR-GDE-90
- ZDDAT command OPR-GDE-298
- ZDTIM command OPR-GDE-387
- ZSSLD command OPR-GDE-1298
- ZSTAT command OPR-GDE-1299

TPF transaction services data SPM-PRM-26

TPF transaction services exit INS-PRM-101

TPF transaction services

- API changes MIG-GD2-436
- architecture MIG-GD2-423
- benefits APP-GDE-89
- C/C++ language MIG-GD2-424
- capture and restore DBS-REF-55
- CINFC tags MIG-GD2-426
- commands MIG-GD2-432
- commit scope APP-GDE-89, CON-STR-12, DBS-REF-125
- commit scope buffers DBS-REF-38
- commit scope
 - begin CON-STR-12
 - commit CON-STR-12
 - resume CON-STR-12
 - rollback CON-STR-12
 - suspend CON-STR-12
- CONKC tags MIG-GD2-426
- copy members MIG-GD2-426
- database changes MIG-GD2-436
- deadlock detection APP-GDE-98
- feature changes MIG-GD2-436
- fixed file records MIG-GD2-427
- functional changes MIG-GD2-432
- functional overview MIG-GD2-423
- host system changes MIG-GD2-436
- in the scope APP-GDE-91
- installation validation MIG-GD2-436
- interfaces MIG-GD2-424
- introduction DBS-REF-125
- loading process MIG-GD2-435
- locking APP-GDE-93
- locking
 - inside a commit scope APP-GDE-93
 - outside a commit scope APP-GDE-93
- locks DBS-REF-126
- log manager CON-STR-13, DBS-REF-125
- loosely coupled and MDBF considerations APP-GDE-99
- macros MIG-GD2-427
- migration scenarios MIG-GD2-436
- nesting APP-GDE-90
- offline messages MIG-GD2-433
- online messages MIG-GD2-433
- online system load MIG-GD2-435
- operating environment requirements MIG-GD2-424
- operational changes MIG-GD2-432
- outside the scope APP-GDE-97
- overview APP-GDE-89, MIG-GD2-26, MIG-GD2-423

TPF transaction services *(continued)*

- performance changes MIG-GD2-435
 - planning information MIG-GD2-424
 - pool file addresses APP-GDE-94
 - prerequisite APARs MIG-GD2-423
 - processing
 - commit request OPR-GDE-228
 - rollback request OPR-GDE-228
 - publication changes MIG-GD2-435
 - recovery log CON-STR-13, DBS-REF-125
 - resource manager CON-STR-12, DBS-REF-125
 - segments MIG-GD2-430
 - SIP changes MIG-GD2-435
 - storage changes MIG-GD2-435
 - storage considerations MIG-GD2-435
 - system equates MIG-GD2-431
 - system errors MIG-GD2-433
 - system generation changes MIG-GD2-435
 - transaction manager CON-STR-12, DBS-REF-125
 - tuning changes MIG-GD2-435
 - user exits MIG-GD2-432
 - WAITC processing APP-GDE-94
 - ZCORO command OPR-GDE-228
- TPF_BAL_FN type CLS-UGR-106, CLS-UGR-562
- TPF_BAL_FN_PTR type CLS-UGR-106, CLS-UGR-562
- TPF_CALL_BY_NAME macro CLS-UGR-562
- TPF_CALL_BY_NAME_STUB macro CLS-UGR-562
- TPF_FSDD_APPEND type CLS-UGR-1416
- TPF_FSDD_CLOSE type CLS-UGR-1419
- TPF_FSDD_GET type CLS-UGR-1420
- TPF_FSDD_OPEN type CLS-UGR-1422
- TPF_FSDD_POLL type CLS-UGR-1425
- TPF_FSDD_POLL_CLEAN type CLS-UGR-1427
- TPF_FSDD_PUT type CLS-UGR-1429
- TPF_FSDD_RESIZE type CLS-UGR-1432
- TPF_FSDD_SIZE type CLS-UGR-1434
- TPF_FSDD_SYNC type CLS-UGR-1436
- tpf_vipac function CLS-UGR-637
- tpf_yieldc function CLS-UGR-639
- TPF-reserved ECB areas APP-GDE-38
- TPF-supplied user names CLS-UGR-1410
- TPF/APPC APP-GDE-10
- TPF/APPC (TPF Advanced Program-to-Program Communications) SNA-PRM-59
- TPF/APPC (TPF Advanced Program-to-Program Communications)
 - APPC overview SNA-PRM-59
 - architecture comparison SNA-PRM-73
 - architecture comparison
 - ALLOCATE SNA-PRM-73
 - CONFIRM SNA-PRM-73
 - CONFIRMED SNA-PRM-73
 - DEALLOCATE SNA-PRM-74
 - FLUSH SNA-PRM-74
 - GET_ATTRIBUTES SNA-PRM-74
 - GET_TYPE SNA-PRM-75
 - POST_ON_RECEIPT SNA-PRM-75
 - PREPARE_TO_RECEIVE SNA-PRM-75
 - RECEIVE_AND_WAIT SNA-PRM-76
 - REQUEST_TO_SEND SNA-PRM-76

TPF/APPC (TPF Advanced Program-to-Program Communications) *(continued)*

- architecture comparison *(continued)*
 - SEND_DATA SNA-PRM-76
 - SEND_ERROR SNA-PRM-77
 - TEST SNA-PRM-77
 - WAIT SNA-PRM-77
- ATTACH interface SNA-PRM-69
- change number of sessions SNA-PRM-78
- change number of sessions work block SNA-PRM-68
- components SNA-PRM-59
- control blocks SNA-PRM-67
- conversation control block (CCB) SNA-PRM-67
- conversation verbs SNA-PRM-71
- conversation verbs
 - basic conversation verbs SNA-PRM-72
 - mapped conversation verbs SNA-PRM-71
 - type-independent verbs SNA-PRM-72
- defining LUs to a VTAM subsystem SNA-PRM-66
- defining LUs to the network SNA-PRM-63
- finite state machine SNA-PRM-80
- half-session to presentation services record (HPR) SNA-PRM-69
- inbound message queuing SNA-PRM-100
- installation checklist SNA-PRM-60
- loosely coupled considerations SNA-PRM-63, SNA-PRM-103
- mapped conversation support SNA-PRM-62, SNA-PRM-71
- mapped conversation support
 - side information table SNA-PRM-62, SNA-PRM-71
 - side information table offline program (CHQI) SNA-PRM-83
- message flow SNA-PRM-99
- partner work block SNA-PRM-69
- presentation services SNA-PRM-69
- resource manager SNA-PRM-98
- sample transaction programs SNA-PRM-113
- service LU SNA-PRM-103
- service transaction program SNA-PRM-103
- session control block (SCB) SNA-PRM-68
- session manager SNA-PRM-99
- side information table SNA-PRM-62
- SLU threads SNA-PRM-61
- system restart SNA-PRM-101
- tightly coupled considerations SNA-PRM-102
- transaction program name table SNA-PRM-62, SNA-PRM-70
- user exits SNA-PRM-107
- work blocks SNA-PRM-68

TPF/APPC application

- defining AR-USG-12

TPF/APPC Application

- defining AR-USG-12

TPF/APPC basic conversation functions

- tppc_activate_on_confirmation CLS-UGR-737
- tppc_activate_on_receipt CLS-UGR-741
- tppc_allocate CLS-UGR-745
- tppc_confirm CLS-UGR-750

TPF/APPC basic conversation functions *(continued)*

- tppc_confirmed CLS-UGR-753
- tppc_deallocate CLS-UGR-755
- tppc_flush CLS-UGR-759
- tppc_get_attributes CLS-UGR-761
- tppc_get_type CLS-UGR-763
- tppc_post_on_receipt CLS-UGR-765
- tppc_prepare_to_receive CLS-UGR-768
- tppc_receive CLS-UGR-771
- tppc_request_to_send CLS-UGR-777
- tppc_send_data CLS-UGR-779
- tppc_send_error CLS-UGR-782
- tppc_test CLS-UGR-786
- tppc_wait CLS-UGR-789
- general programming considerations CLS-UGR-735
- general syntax CLS-UGR-723
- valid return codes CLS-UGR-731
- valid verbs and keywords CLS-UGR-724

TPF/APPC components

- half-session SNA-PRM-59
- presentation services SNA-PRM-59
- resource manager SNA-PRM-59
- session manager SNA-PRM-59

TPF/APPC mapped conversation functions

- cmaccp CLS-UGR-798
- cma11c CLS-UGR-800
- cmcfm CLS-UGR-803
- cmcfmd CLS-UGR-805
- cmdeal CLS-UGR-807
- cmecs CLS-UGR-810
- cmemn CLS-UGR-812
- cmes1 CLS-UGR-816
- cmflus CLS-UGR-818
- cmnit CLS-UGR-820
- cmptr CLS-UGR-823
- cmrcv CLS-UGR-825
- cmrts CLS-UGR-829
- cmsdt CLS-UGR-831
- cmsed CLS-UGR-833
- cmsend CLS-UGR-835
- cmserr CLS-UGR-838
- cmsmn CLS-UGR-842
- cmsp1n CLS-UGR-844
- cmsptr CLS-UGR-846
- cmsrc CLS-UGR-848
- cmssl CLS-UGR-850
- cmsst CLS-UGR-852
- cmstpn CLS-UGR-854
- cmtrts CLS-UGR-856
- characteristics CLS-UGR-794
- conversation states CLS-UGR-794
- mapped conversation interface overview CLS-UGR-793
- side information table CLS-UGR-795
- valid return codes CLS-UGR-796

TPF/APPC resources

- defining AR-USG-12

TPF/APPC service LU SNA-PRM-103

TPF/APPC service transaction program SNA-PRM-103

- TPF/APPC sessions
 - consolidate application program names
 - MIG-GD1-203
 - CPI communications MIG-GD1-20
 - display PIU trace table MIG-GD1-77
 - overview MIG-GD1-20
 - processing of a PLU MIG-GD1-76
 - processing of a SLU MIG-GD1-76
 - remote LU MIG-GD1-76
 - resource name MIG-GD1-76
 - session control block (SCB)
 - definition MIG-GD1-77
 - display MIG-GD1-78
 - ID MIG-GD1-76
 - initialize MIG-GD1-78
- TPF/APPC
 - ITPNT macro ACF-GDE-2
 - transaction program name table ACF-GDE-1
- TPF/NEF/AX.25 host interfaces SNA-PRM-45
- TPF/SNA structures
 - NCB records SNA-PRM-183
 - RVT SNA-PRM-179
- TPF
 - connecting with DB2 for VTAM AR-USG-19
- TPFAR (TPF Application Requester) APP-GDE-10, GIM-12
- TPFAR (TPF Application Requester)
 - calculation methods for response time AR-USG-98
 - DB2 requirements AR-USG-11, AR-USG-20
 - defining storage areas for in SNAKEY AR-USG-13
 - distributed access capability of Systems Application Architecture AR-USG-1
 - ECB processing AR-USG-14, AR-USG-18, AR-USG-30, AR-USG-98, AR-USG-99
 - feature GIM-12
 - how it works AR-USG-4
 - introduction to AR-USG-1
 - loosely coupled requirements AR-USG-17
 - LU 6.2 requirements AR-USG-11, AR-USG-14
 - methods for using AR-USG-5
 - performance and tuning AR-USG-97
 - preparing your environment for AR-USG-11
 - response time AR-USG-97
 - role in moving TPF data to DB2 AR-USG-4
 - SIP CONFIG macro changes for TPF AR-USG-11
 - SNAKEY macro AR-USG-13
 - subsystem requirements for TPFAR AR-USG-18
 - suggested methods for using AR-USG-5, AR-USG-6, AR-USG-8
 - supported SQL commands AR-USG-101
 - TCP/IP requirements AR-USG-15
 - TPF requirements AR-USG-11
 - TPF storage requirements AR-USG-14
 - using assembler language in applications AR-USG-79
 - using TPF C in applications AR-USG-45
 - VTAM requirements AR-USG-18
 - ZNKEY command AR-USG-16
 - ZSQLD command AR-USG-13, AR-USG-15, AR-USG-17, AR-USG-18, AR-USG-21
 - ZSTTD command AR-USG-16
- TPFAR blocks, working storage AR-USG-30
- TPFAR continuous data collection
 - clearing OPR-GDE-190
 - creating OPR-GDE-190
 - deleting OPR-GDE-190
 - displaying OPR-GDE-190
 - managing OPR-GDE-190
 - starting OPR-GDE-190
 - stopping OPR-GDE-190
 - ZCDCO command OPR-GDE-190
- TPFAR database support structure GEN-MAC-134, GEN-MAC-136
- TPFAR database support structure
 - attach CLS-UGR-78
 - detach CLS-UGR-79
- TPFAR exits INS-PRM-95
- TPFAR option of SIP CONFIG macro AR-USG-11
- TPFAR
 - SNAKEY macro
 - storage allocation area table parameters ACF-GDE-10
- TPFCS PSM-GDE-22
- TPFCS database interface
 - controlling access APP-GDE-101
 - data store dictionary support APP-GDE-104
 - error handling APP-GDE-103
 - returned data structures APP-GDE-106
- TPFCS recoup index command support
 - API changes MIG-GD2-723
 - architecture MIG-GD2-717
 - C/C++ language MIG-GD2-717
 - CINFC tags MIG-GD2-719
 - coexistence MIG-GD2-723
 - commands MIG-GD2-720
 - CONKC tags MIG-GD2-719
 - copy members MIG-GD2-719
 - database changes MIG-GD2-723
 - fallback MIG-GD2-723
 - feature changes MIG-GD2-723
 - fixed file records MIG-GD2-719
 - functional changes MIG-GD2-720
 - functional overview MIG-GD2-717
 - host system changes MIG-GD2-723
 - installation validation MIG-GD2-723
 - interfaces MIG-GD2-717
 - loading process MIG-GD2-722
 - macros MIG-GD2-719
 - migration scenarios MIG-GD2-723
 - offline messages MIG-GD2-721
 - online messages MIG-GD2-721
 - online system load MIG-GD2-722
 - operating environment requirements MIG-GD2-717
 - operational changes MIG-GD2-720
 - overview MIG-GD2-717
 - performance changes MIG-GD2-722
 - planning information MIG-GD2-717
 - prerequisite APARs MIG-GD2-717
 - publication changes MIG-GD2-722
 - segments MIG-GD2-720
 - SIP changes MIG-GD2-722
 - storage changes MIG-GD2-722

TPFCS recoup index command support *(continued)*
 storage considerations MIG-GD2-722
 system equates MIG-GD2-720
 system errors MIG-GD2-721
 system generation changes MIG-GD2-722
 tuning changes MIG-GD2-722
 user exits MIG-GD2-720

TPPDF user exits
 TPDFDF macro trace call INS-PRM-96
 TPDFDF macro trace return INS-PRM-97

TPFISOC GEN-MAC-399, GEN-MAC-401

TPINC macro SYS-MAC-495

TPNT APP-GDE-10

TPNT (transaction program name table) SNA-PRM-62,
 SNA-PRM-70

TPPCC ACTIVATE_ON_CONFIRMATION
 GEN-MAC-427

TPPCC ACTIVATE_ON_CONFIRMATION
 return codes GEN-MAC-429

TPPCC ACTIVATE_ON_RECEIPT GEN-MAC-431

TPPCC ACTIVATE_ON_RECEIPT
 return codes GEN-MAC-432

TPPCC ALLOCATE GEN-MAC-435

TPPCC ALLOCATE
 return codes GEN-MAC-437

TPPCC CONFIRM GEN-MAC-440

TPPCC CONFIRM
 return codes GEN-MAC-441

TPPCC CONFIRMED GEN-MAC-443

TPPCC CONFIRMED
 return codes GEN-MAC-444

TPPCC DEALLOCATE GEN-MAC-445

TPPCC DEALLOCATE
 return codes GEN-MAC-446

TPPCC FLUSH GEN-MAC-449

TPPCC FLUSH
 return codes GEN-MAC-449

TPPCC GET_ATTRIBUTES GEN-MAC-451

TPPCC GET_ATTRIBUTES
 return codes GEN-MAC-452

TPPCC GET_TYPE GEN-MAC-454

TPPCC GET_TYPE
 return codes GEN-MAC-455

TPPCC macro GEN-MAC-414

TPPCC macro
 ACTIVATE_ON_CONFIRMATION GEN-MAC-427
 ACTIVATE_ON_RECEIPT GEN-MAC-431
 ALLOCATE GEN-MAC-435
 CONFIRM GEN-MAC-440
 CONFIRMED GEN-MAC-443
 DEALLOCATE GEN-MAC-445
 FLUSH GEN-MAC-449
 general programming considerations GEN-MAC-426
 general syntax GEN-MAC-414
 GET_ATTRIBUTES GEN-MAC-451
 GET_TYPE GEN-MAC-454
 POST_ON_RECEIPT GEN-MAC-456
 PREPARE_TO_RECEIVE GEN-MAC-459
 RECEIVE GEN-MAC-462
 REQUEST_TO_SEND GEN-MAC-468
 SEND_DATA GEN-MAC-470

TPPCC macro *(continued)*
 SEND_ERROR GEN-MAC-474
 TEST GEN-MAC-478
 valid return codes GEN-MAC-421
 valid verbs and keywords GEN-MAC-414
 WAIT GEN-MAC-481

TPPCC macros SNA-PRM-73

TPPCC POST_ON_RECEIPT GEN-MAC-456

TPPCC POST_ON_RECEIPT
 return codes GEN-MAC-457

TPPCC PREPARE_TO_RECEIVE GEN-MAC-459

TPPCC PREPARE_TO_RECEIVE
 return codes GEN-MAC-460

TPPCC RECEIVE GEN-MAC-462

TPPCC RECEIVE
 return codes GEN-MAC-464

TPPCC REQUEST_TO_SEND GEN-MAC-468

TPPCC REQUEST_TO_SEND
 return codes GEN-MAC-469

TPPCC SEND_DATA GEN-MAC-470

TPPCC SEND_DATA
 return codes GEN-MAC-471

TPPCC SEND_ERROR GEN-MAC-474

TPPCC SEND_ERROR
 return codes GEN-MAC-475

TPPCC TEST GEN-MAC-478

TPPCC TEST
 return codes GEN-MAC-479

TPPCC WAIT GEN-MAC-481

TPPCC wait verb
 timing out OPR-GDE-981
 ZNKEY command OPR-GDE-981

TPPCC WAIT
 return codes GEN-MAC-482

TPRDC GEN-MAC-18

TPRDC macro GEN-MAC-484

TPRECV SNA-PRM-62

TPRECV parameter
 SNAKEY macro ACF-GDE-19

TPWAIT SNA-PRM-62

TPWAIT parameter
 SNAKEY macro ACF-GDE-19

trace activation
 system test compiler PDV-PRM-53

trace buffer
 4 KB common block MIG-GD1-234
 written to tape MIG-GD1-234

trace control table
 changes MIG-GD1-234

trace count output
 an example PDV-PRM-50

trace facilities
 hardware GIM-26

trace facility
 branch trace facility MIG-GD1-10
 CP TRACE facility MIG-GD1-301
 enter/back trace facility MIG-GD1-10, MIG-GD1-293
 macro trace facility MIG-GD1-234, MIG-GD1-293
 path information unit (PIU) trace facility
 MIG-GD1-256, MIG-GD1-293, MIG-GD1-301

- trace facility (*continued*)
 - program event recording (PER) trace facility
 - MIG-GD1-293
 - register and S/370 branch trace facility MIG-GD1-10,
 - MIG-GD1-293
 - SNA communication MIG-GD1-256
 - SNA I/O trace facility MIG-GD1-10, MIG-GD1-293,
 - MIG-GD1-303
 - system log trace facility MIG-GD1-10,
 - MIG-GD1-293, MIG-GD1-298
 - system traces MIG-GD1-293
 - systems network architecture (SNA) I/O
 - MIG-GD1-293
- trace functions SNA-PRM-275
- trace functions
 - CCP trace
 - ZLTRF command OPR-GDE-705
 - ZLTRL command OPR-GDE-708
 - ZLTRN command OPR-GDE-706
 - CLAW trace function OPR-GDE-220
 - emulation program (EP) line trace function
 - OPR-GDE-45
 - Internet Protocol (IP) trace facility
 - ZINIP command OPR-GDE-661
 - ZIPTR command OPR-GDE-668
 - ZTTCP TRACE command OPR-GDE-1413
 - MQSeries trace OPR-GDE-911
 - PIU trace facility
 - ZNALS command OPR-GDE-917
 - ZNDLU command OPR-GDE-946
 - ZNKEY command OPR-GDE-981
 - ZNPIU command OPR-GDE-1012
 - ZNTRP command OPR-GDE-1052
 - Z3705 TRC command OPR-GDE-45
 - ZMQSC TRACE command OPR-GDE-911
- trace information for an ECB SYS-MAC-431
- trace information
 - customizing for C function trace
 - breakpoints PDV-PRM-137
 - overview PDV-PRM-151
 - using user exits PDV-PRM-151
 - for TPF MQSeries
 - controlling PDV-PRM-154
 - postprocessing PDV-PRM-154
 - sample PDV-PRM-154, PDV-PRM-156
- trace nesting levels
 - interpretation of PDV-PRM-142
- trace options for C function trace
 - setting of
 - ZSTRC command PDV-PRM-134
- trace options, system
 - changing OPR-GDE-1311
 - displaying OPR-GDE-1311
 - ZSTRC command OPR-GDE-1311
- trace output for C function trace
 - with other breakpoint entries
 - sample of PDV-PRM-149
 - with stack and static data
 - sample of PDV-PRM-142
 - with stack and without static data
 - sample of PDV-PRM-145
- trace output for C function trace (*continued*)
 - with static and without stack data
 - calling/return parameters field PDV-PRM-150
 - sample of PDV-PRM-147
 - without stack and static data
 - description of alpha pointers PDV-PRM-139
 - sample of PDV-PRM-138
 - trace nesting levels PDV-PRM-142
- trace period
 - SFT PDV-PRM-53
- trace postprocessor, CLAW data CLAWGR-343
- trace postprocessor, CLAW process CLAWGR-350
- trace postprocessor, data
 - JCL, sample CLAWGR-343
- trace postprocessor, process
 - JCL, sample CLAWGR-350
- trace postprocessor
 - CLAW process trace output CLAWGR-350
 - CLAW sample trace output, data CLAWGR-344
- trace table
 - description MIG-GD1-18
- trace, realtime
 - agent SNA-PRM-47
 - nodename SNA-PRM-47
- trace, TPF MQSeries APP-GDE-85
- trace
 - enter/back trace GIM-26
 - I/O GIM-26
 - macro GIM-26
 - PIU GIM-27
 - SNA I/O GIM-27
 - system log GIM-26
- traces (for Fast Transaction Processing Interface)
 - SNA-PRM-42
- traces
 - branch trace MIG-GD1-10
 - controlling for C function trace PDV-PRM-134
 - enter/back trace facility MIG-GD1-10
 - I/O trace MIG-GD1-10
 - real-time trace MIG-GD1-10
 - register trace MIG-GD1-10
 - system trace MIG-GD1-10
- tracing and testing in TPF SNA-PRM-275
- tracing application activity APP-GDE-291
- tracing for C function trace
 - ECB origin PDV-PRM-136
 - production environment PDV-PRM-136
- tracing indicator bytes PDV-PRM-47
- tracing SQL entries AR-USG-15
- tracing user data
 - CTRC user exit PDV-PRM-136, PDV-PRM-151
- tracing
 - SLC links NSC-PRM-33
- track caching, cache DBS-REF-44
- TRACSZ parameter
 - SNAKEY macro ACF-GDE-14
- trailer, record DBS-REF-169
- TRANA parameter
 - SNAKEY macro ACF-GDE-19
- transaction CON-STR-6, CON-STR-11

- transaction analysis user exit
 - ZNKEY command OPR-GDE-981
- transaction anchor table SYS-MAC-473
- transaction anchor table control CLS-UGR-530
- Transaction Anchor Table Control (TANC) macro
 - SYS-MAC-473
- transaction branch
 - xa_rollback CLS-UGR-718
 - commit work CLS-UGR-708
 - end work CLS-UGR-710
 - get a list of prepared transaction branches
 - CLS-UGR-716
 - prepare to commit CLS-UGR-714
 - roll back work CLS-UGR-718
 - start CLS-UGR-720
- transaction control APP-GDE-48
- transaction control block identifier (TCB ID)
 - SNA-PRM-67
- transaction log write routine INS-PRM-101
- transaction logging method for using TPFAR AR-USG-5
- transaction manager DBS-REF-125
- transaction manager, TPF MQSeries APP-GDE-85
- Transaction Processing Facility (TPF)
 - applicability CON-STR-5
 - backup CON-STR-7
 - characteristics CON-STR-6
 - control program CON-STR-56
 - control structure CON-STR-56
 - data host CON-STR-186
 - design CON-STR-59
 - history CON-STR-3
 - interrupt handling CON-STR-35
 - performance CON-STR-17
 - problem of system evolution CON-STR-42
 - recovery CON-STR-7
 - supporting environment CON-STR-7
 - using FILNC macro SPM-18
 - using FILWC macro SPM-18
 - using FIWHC macro SPM-18
 - using structured programming macros in SPM-3
 - using WAITC macro SPM-18
- transaction program CON-STR-183
- transaction program instance control blocks (TPICBs)
 - entries
 - active, maximum number OPR-GDE-979
 - ZNKEY command OPR-GDE-979
- transaction program name table (TPNT) CON-STR-183,
 - SNA-PRM-62, SNA-PRM-70
- transaction program name table
 - description of ACF-GDE-1
 - entries, defining GEN-MAC-278
 - ITPNT macro GEN-MAC-278
 - search instructions, generating GEN-MAC-278
- transaction programs
 - design considerations SNA-PRM-107
 - samples of
 - requested TPF transaction program
 - SNA-PRM-116, SNA-PRM-121
 - requesting TPF transaction program
 - SNA-PRM-114, SNA-PRM-117
- transaction protection GIM-23
- transaction protection
 - changes MIG-GD1-213
- transaction
 - commit APP-GDE-94
 - definition CON-STR-11
 - editor CON-STR-180
 - exceptions APP-GDE-99
 - exceptions
 - functions that do no work APP-GDE-100
 - unsupported functions APP-GDE-99
 - EXITC APP-GDE-95
 - manager CON-STR-12
 - rollback APP-GDE-95
 - system error processing APP-GDE-95
- transfer control SYS-MAC-204
- transfer control to a program GEN-MAC-171,
 - GEN-MAC-173, GEN-MAC-175
- transfer of control CON-STR-83
- transfer time CON-STR-112, SYS-GEN-57
- transfer vector
 - allocate MIG-GD1-217, MIG-GD1-221
 - definition MIG-GD1-221
 - format of input statements for allocation
 - MIG-GD1-221
- transfer vectors APP-GDE-235, SYS-GEN-36
- transfer vectors
 - allocating INS-PRM-404
 - definition of INS-PRM-404
- transfer
 - file data chain SYS-MAC-237
- transferring control MSP-PRM-16
- transferring processor control APP-GDE-227,
 - APP-GDE-233
- transferring the TFTP configuration file to the TPF
 - system CLAWGR-241
- transition step
 - FARF4 GIM-28
- translate a long integer
 - socket API function, htonl CLAWGR-180
 - socket API function, ntohl CLAWGR-191
- translate a short integer
 - socket API function, htons CLAWGR-181
 - socket API function, ntohs CLAWGR-192
- translation by NEF SNA-PRM-47
- translation tables APP-GDE-315
- translation tables
 - creating new APP-GDE-317
- Transmission Control (TC)
 - services SNA-PRM-260
- Transmission Control Protocol (TCP)
 - stream sockets CLAWGR-119
- Transmission Control Protocol/Internet Protocol
 - CON-STR-169
- Transmission Control Protocol/Internet Protocol
 - (TCP/IP) CON-STR-187
- Transmission Control Protocol/Internet Protocol
 - (TCP/IP) application tools
 - API changes MIG-GD2-447
 - architecture MIG-GD2-440
 - C/C++ language MIG-GD2-440
 - CINFC tags MIG-GD2-443

Transmission Control Protocol/Internet Protocol (TCP/IP) application tools (*continued*)

- commands MIG-GD2-445
- CONKC tags MIG-GD2-443
- copy members MIG-GD2-443
- database changes MIG-GD2-447
- feature changes MIG-GD2-447
- fixed file records MIG-GD2-443
- functional changes MIG-GD2-445
- functional overview MIG-GD2-440
- host system changes MIG-GD2-447
- installation validation MIG-GD2-447
- interfaces MIG-GD2-440
- loading process MIG-GD2-447
- macros MIG-GD2-443
- migration scenarios MIG-GD2-448
- offline messages MIG-GD2-445
- online messages MIG-GD2-445
- online system load MIG-GD2-447
- operating environment requirements MIG-GD2-440
- operational changes MIG-GD2-445
- overview MIG-GD2-440
- performance changes MIG-GD2-446
- planning information MIG-GD2-440
- prerequisite APARs MIG-GD2-440
- publication changes MIG-GD2-447
- segments MIG-GD2-444
- SIP changes MIG-GD2-446
- storage changes MIG-GD2-446
- storage considerations MIG-GD2-446
- system equates MIG-GD2-445
- system errors MIG-GD2-445
- system generation changes MIG-GD2-446
- tuning changes MIG-GD2-446
- user exits MIG-GD2-445

Transmission Control Protocol/Internet Protocol (TCP/IP)

- CLAWCC macro SYS-MAC-164
- GCLAC macro SYS-MAC-255
- RCLAC macro SYS-MAC-397
- TCLAC macro SYS-MAC-477

transmission control unit (TCU) SYS-GEN-134

transmission group (TG) SNA-PRM-223

transmission group (TG)

- TG=ANY OPR-GDE-974
- ZNKEY command OPR-GDE-974

transmission priority (TP) SNA-PRM-227, SNA-PRM-229

transmission queues, TPF MQSeries APP-GDE-84

transmission, data

- socket concepts used CLAWGR-120

transmitter package SYS-GEN-151

transmitting a message GEN-MAC-12

transport connection identifiers (TCIDs) SNA-PRM-134

transport header (THDR)

- description of SNA-PRM-149
- displaying OPR-GDE-1012
- ECHO numbers SNA-PRM-151
- optional segments SNA-PRM-150
- SYNC numbers SNA-PRM-151
- ZNPIU command OPR-GDE-1012

transport protocol

- Transmission Control Protocol (TCP) APP-GDE-178
- User Datagram Protocol (UDP) APP-GDE-178

traps for SNMP applications, sending CLS-UGR-608

traps, sending SNMP GEN-MAC-283

traps

- and SNMP CLAWGR-93

TRCE PDV-PRM-53

TREWC macro GEN-MAC-486

Trivial File Transfer Protocol (TFTP) server MIG-GD2-504, MIG-GD2-505

Trivial File Transfer Protocol (TFTP) server

- adding entry to IDCF CLAWGR-239
- description of CON-STR-189, CON-STR-190
- general discussion CLAWGR-239
- socket application CON-STR-188, CON-STR-189, CON-STR-190

TRMEQ macro SNA-PRM-26

TRSVCS macro GEN-MAC-488

truncate a file CLS-UGR-237

TSYNC macro GEN-MAC-490

tuning changes

- logical CPUs
 - shared PR/SM MIG-GD2-109
- processor run time
 - shared PR/SM MIG-GD2-109
- processor weights
 - shared PR/SM MIG-GD2-110
- wait completion
 - shared PR/SM MIG-GD2-109

tuning memory allocation, TPF MQSeries APP-GDE-87

tuning SNA network performance SNA-PRM-32

tuning TCP/IP native stack support

- IP network CLAWGR-55
- IP over CDLC link layer CLAWGR-55
- major control block structures CLAWGR-55

tuning TPFAR

- performance of TPFAR AR-USG-97
- response time AR-USG-97
- tuning and performance AR-USG-97

tuning, TCP/IP native stack support CLAWGR-54

tuning

- virtual file access (VFA) MIG-GD1-241
- virtual file access (VFA) candidates MIG-GD1-248
- virtual file access (VFA) indicators MIG-GD1-249
- virtual file access (VFA) resources MIG-GD1-248

turbo enhancements for TPF support of MQSeries local queue manager

- API changes MIG-GD2-761
- architecture MIG-GD2-744
- C/C++ language MIG-GD2-745
- checkpoint record requirements MIG-GD2-762
- CINFC tags MIG-GD2-752
- commands MIG-GD2-756
- CONKC tags MIG-GD2-752
- copy members MIG-GD2-752
- DASD requirements MIG-GD2-762
- database changes MIG-GD2-761
- feature changes MIG-GD2-762
- fixed file records MIG-GD2-753
- functional changes MIG-GD2-756

- turbo enhancements for TPF support of MQSeries local queue manager (*continued*)
 - functional overview MIG-GD2-744
 - hardware MIG-GD2-745
 - host system changes MIG-GD2-761
 - installation validation MIG-GD2-762
 - interfaces MIG-GD2-745
 - loading process MIG-GD2-761
 - macros MIG-GD2-753
 - migration scenarios MIG-GD2-762
 - offline messages MIG-GD2-757
 - online messages MIG-GD2-757
 - online system load MIG-GD2-761
 - operating environment requirements MIG-GD2-745
 - operational changes MIG-GD2-756
 - overview MIG-GD2-24, MIG-GD2-744
 - performance changes MIG-GD2-760
 - planning information MIG-GD2-745
 - prerequisite APARs MIG-GD2-744
 - publication changes MIG-GD2-761
 - recovery log MIG-GD2-762
 - segments MIG-GD2-755
 - SIP changes MIG-GD2-760
 - software (programming requirements) MIG-GD2-745
 - storage changes MIG-GD2-760
 - storage considerations MIG-GD2-760
 - system equates MIG-GD2-756
 - system errors MIG-GD2-757
 - system generation changes MIG-GD2-760
 - tuning changes MIG-GD2-760
 - user exits MIG-GD2-756
- Turn Off Time Available Supervisor Switch macro
SYS-MAC-475
- turn on or off online error logging
 - ZRECP ELOG command OPR-GDE-1163
- Turn on Time Available Supervisor Switch macro
SYS-MAC-476
- TUT PDV-PRM-3, PDV-PRM-12, PDV-PRM-17
- TUT tapes OPR-GDE-19
- TUT
 - content of PDV-PRM-5
 - input for running PTV PDV-PRM-5
- TWRTC GEN-MAC-18
- TWRTC macro GEN-MAC-492
- TXBGC macro GEN-MAC-494
- TXCMC macro GEN-MAC-496
- TXRBC macro GEN-MAC-498
- TXRSC macro GEN-MAC-500
- TXSPC macro GEN-MAC-502
- TYCVA macro GEN-MAC-504
- TYPBC macro SYS-MAC-500
- type definitions APP-GDE-102, CLS-UGR-861,
CLS-UGR-874
- type of service (TOS) CLAWGR-111
- type P SLU support SNA-PRM-28
- type value, getting the collections CLS-UGR-1053
- type-A block, HPR SOUTC SNA-PRM-172
- type-B block, HPR SOUTC SNA-PRM-172
- type-C block, HPR SOUTC SNA-PRM-172
- type
 - get block SYS-MAC-500

- types of blocks supported SYS-MAC-500
- types of functions APP-GDE-105
- types of records, extended structures DBS-REF-181

U

- UATBC macro GEN-MAC-506, MSP-PRM-34
- UCCAPL user exit INS-PRM-10
- UCCCAT user exit INS-PRM-20
- UCCCDBI user exit INS-PRM-12
- UCCCDBR user exit INS-PRM-14
- UCCCDBTS user exit INS-PRM-34, INS-PRM-35
- UCCCDEB user exit INS-PRM-100
- UCCCENV user exit INS-PRM-39
- UCCCEXP user exit INS-PRM-105
- UCCCFB user exit INS-PRM-11
- UCCCFC user exit INS-PRM-15
- UCCCFR user exit INS-PRM-16
- UCCCLE user exit INS-PRM-60
- UCCCLX user exit INS-PRM-61
- UCCCMCP user exit INS-PRM-31
- UCCCMPI user exit INS-PRM-32
- UCCCMXF user exit INS-PRM-25
- UCCCP TI user exit INS-PRM-29, INS-PRM-30
- UCCCREB user exit INS-PRM-27
- UCCCRI user exit INS-PRM-33
- UCCCSER user exit INS-PRM-19
- UCCCSK user exit INS-PRM-17
- UCCCSOE user exit INS-PRM-84
- UCCCSOX user exit INS-PRM-83
- UCCCTRC user exit INS-PRM-98
- UCCDFFC user exit INS-PRM-96
- UCCDFFR user exit INS-PRM-97
- UCCDOT user exit INS-PRM-38
- UCCECB user exit INS-PRM-46
- UCCEFCE user exit INS-PRM-42
- UCCEFCEX user exit INS-PRM-41
- UCCENTD user exit INS-PRM-36, INS-PRM-48
- UCCENTN user exit INS-PRM-36, INS-PRM-48
- UCCENTR user exit INS-PRM-36, INS-PRM-48
- UCCEXI user exit INS-PRM-49
- UCCFHD user exit INS-PRM-81, INS-PRM-82
- UCCFLM user exit INS-PRM-52
- UCCFLX user exit INS-PRM-51
- UCCFREB user exit INS-PRM-53
- UCCFSP user exit INS-PRM-50
- UCCGBC user exit INS-PRM-58
- UCCGBE user exit INS-PRM-56
- UCCGBK user exit INS-PRM-57
- UCCGPFA user exit INS-PRM-65
- UCCGSB user exit INS-PRM-59
- UCCLDD user exit INS-PRM-102
- UCCLODC user exit INS-PRM-62
- UCCOMD user exit INS-PRM-64
- UCCPER user exit INS-PRM-66
- UCCPER2 user exit INS-PRM-67
- UCCRBE user exit INS-PRM-71
- UCCRBK user exit INS-PRM-72
- UCCRCB user exit INS-PRM-73
- UCCRIT user exit INS-PRM-75
- UCCRSB user exit INS-PRM-74
- UCCRTC user exit INS-PRM-77

UCCRTNE user exit INS-PRM-45
 UCCRTNX user exit INS-PRM-43
 UCCSER user exit INS-PRM-92
 UCCSNP user exit INS-PRM-80
 UCCSPX user exit INS-PRM-79
 UCCSRX user exit INS-PRM-91
 UCCSUSC user exit INS-PRM-87
 UCCSUSE user exit INS-PRM-85
 UCCSUSP user exit INS-PRM-86
 UCCSVC user exit INS-PRM-90
 UCCSVW user exit INS-PRM-89
 UCCSVX user exit INS-PRM-88
 UCCTHR user exit INS-PRM-69
 UCCTMSL user exit INS-PRM-93
 UCCUHL user exit INS-PRM-103
 UCCVTO user exit INS-PRM-106
 UCCWAI user exit INS-PRM-107
 UCCWLOG user exit INS-PRM-101
 UCCWTOP user exit INS-PRM-108
 UCOM user exit with SNMP
 and variable binding list CLAWGR-91
 coding CLAWGR-98
 message processing CLAWGR-91
 UDATB macro MSP-PRM-43
 UDATB macro
 use to provide IDATG calls to selective memory
 dump table (SMDT) MIG-GD1-238
 UDP session, sample
 function calls CLAWGR-131
 UDP, sample client code CLAWGR-378
 UDP, sample server code CLAWGR-376
 UFT/FTI concept SYS-GEN-66
 UFT/FTI examples SYS-GEN-93
 UFTEND macro SYS-GEN-317
 UFTFTI statement SYS-GEN-318
 UFTFTI statement
 parameters MIG-GD1-205
 UFTI SYS-GEN-66
 UI/reservation package (PARS) SYS-GEN-149
 UI/reservation package (PARS)
 enter tables SYS-GEN-149
 entry tables SYS-GEN-149
 UME1 program OPR-GDE-16
 UMET (command table) OPR-GDE-16
 UMIB user exit with SNMP
 coding CLAWGR-98
 message processing CLAWGR-91
 UMODE parameter
 RSC statement ACF-GDE-43
 UNBIND SNA-PRM-99
 unblocked tapes
 controlling OPR-GDE-307
 displaying OPR-GDE-307
 ZDEBE command OPR-GDE-307
 UNFRC macro GEN-MAC-510
 UNHKA macro GEN-MAC-512
 unhold a file record CLS-UGR-661
 unhold a file record with extended options
 CLS-UGR-662
 unhold a filed record GEN-MAC-205
 unhold a resource CLS-UGR-50
 unhold file record CLS-UGR-408
 Unhold File Record macro GEN-MAC-510
 unhold file record macro (UNFRC)
 relationship with record hold table CON-STR-109
 Unhold Resource macro GEN-MAC-103
 unholding records GEN-MAC-10
 unhook core block CLS-UGR-666
 Unhook Core Block macro GEN-MAC-512
 uniprocessor CON-STR-21
 uniprocessor environment
 system evolution CON-STR-42
 uniprocessor performance CON-STR-49
 unique record CON-STR-132
 unique record
 I-stream engine CON-STR-133
 processor CON-STR-134
 subsystem user (SSU) CON-STR-133
 uniqueness SYS-GEN-67
 uniqueness of entries in collections CON-STR-163
 unit record control macro GEN-MAC-22
 Unit Record Control macro GEN-MAC-514
 unit record device assignment GEN-MAC-517
 unit record device
 1403 printer
 unit record status table OPR-GDE-96,
 OPR-GDE-98
 unit record utility program OPR-GDE-104
 universal character set OPR-GDE-102
 2505R card reader
 unit record status table OPR-GDE-98
 unit record utility program OPR-GDE-104
 3211 printer
 form control buffer OPR-GDE-100
 unit record status table OPR-GDE-96,
 OPR-GDE-98
 unit record utility program OPR-GDE-104
 universal character set OPR-GDE-102
 3505 card reader
 unit record status table OPR-GDE-98
 unit record utility program OPR-GDE-104
 address of
 changing OPR-GDE-96
 displaying OPR-GDE-98
 card readers
 2540R card reader OPR-GDE-96, OPR-GDE-98,
 OPR-GDE-104
 3505 card reader OPR-GDE-96, OPR-GDE-98,
 OPR-GDE-104
 unit record status table OPR-GDE-96,
 OPR-GDE-98
 unit record utility program OPR-GDE-104
 device type
 changing OPR-GDE-96
 displaying OPR-GDE-98
 form control buffer
 loading OPR-GDE-100
 job
 ending OPR-GDE-95
 printers
 1403 printer OPR-GDE-96, OPR-GDE-98,
 OPR-GDE-102, OPR-GDE-104

- unit record device *(continued)*
 - printers *(continued)*
 - 3211 printer OPR-GDE-96, OPR-GDE-98, OPR-GDE-100, OPR-GDE-102, OPR-GDE-104
 - form control buffer OPR-GDE-100
 - unit record status table OPR-GDE-96, OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set OPR-GDE-102
 - prohibiting use of OPR-GDE-96
 - status bytes
 - displaying OPR-GDE-98
 - UR1ST DSECT OPR-GDE-98
 - status
 - displaying OPR-GDE-98
 - symbolic name
 - displaying OPR-GDE-98
 - types MIG-GD1-187, MIG-GD2-37
 - unit record status table
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - unit record utility program OPR-GDE-104
 - universal character set
 - loading OPR-GDE-102
 - ZAURS ABRT command OPR-GDE-95
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
 - ZAURS FCBL command OPR-GDE-100
 - ZAURS LUCS command OPR-GDE-102
 - ZAURS UTIL command OPR-GDE-104
- unit record equipment CON-STR-91
- unit record I/O macros GEN-MAC-21
- unit record job
 - ending OPR-GDE-95
 - ZAURS ABRT command OPR-GDE-95
- unit record macros GEN-MAC-21
- unit record status table (URST) SYS-GEN-56
- unit record status table
 - changing OPR-GDE-96
 - displaying OPR-GDE-98
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
- unit record support DCS-PRM-41
- unit record support
 - control program link map table SYS-GEN-56
 - CPU action DCS-PRM-43
 - devices supported DCS-PRM-41
 - equipment SYS-GEN-55
 - functions DCS-PRM-41
 - input action DCS-PRM-42
 - LC considerations SYS-GEN-56
 - macro support DCS-PRM-41
 - output DCS-PRM-43
 - UNITRD macro SYS-GEN-56
- unit record utility program OPR-GDE-104
- unit test
 - RUNID PDV-PRM-7
 - selective file dump PDV-PRM-53
 - system test compiler PDV-PRM-53
- UNITRD macro SYS-GEN-321
- UNITSZ parameter
 - SNAKEY macro ACF-GDE-19
- universal character set
 - 1403 printer
 - CUAH program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - 3211 printer
 - CUAI program OPR-GDE-103
 - defining OPR-GDE-103
 - loading OPR-GDE-102
 - ZAURS LUCS command OPR-GDE-102
- universal file type (UFT)
 - description MIG-GD1-205
 - FARF4 structure MIG-GD1-243
 - FARF5 structure MIG-GD1-243
 - format indicator (FTI) MIG-GD1-205
 - range MIG-GD1-243
 - record ordinal number size limit MIG-GD1-243
 - suggestions for use MIG-GD1-243
- universal format type (UFT)/format type indicator (FTI)
 - conversion table
 - description MIG-GD1-243
 - location of FARF4 and FARF5 addresses MIG-GD1-242
- unlimited pool segment support
 - API changes MIG-GD2-998
 - architecture MIG-GD2-988
 - C/C++ language MIG-GD2-989
 - commands MIG-GD2-995
 - CONKC tags MIG-GD2-990
 - copy members MIG-GD2-990
 - database changes MIG-GD2-998
 - feature changes MIG-GD2-998
 - fixed file records MIG-GD2-991
 - functional changes MIG-GD2-995
 - functional overview MIG-GD2-988
 - host system changes MIG-GD2-998
 - installation validation MIG-GD2-998
 - interfaces MIG-GD2-989
 - loading process MIG-GD2-997
 - macros MIG-GD2-991
 - migration scenarios MIG-GD2-998
 - offline messages MIG-GD2-995
 - online messages MIG-GD2-995
 - online system load MIG-GD2-997
 - operating environment requirements MIG-GD2-988
 - operational changes MIG-GD2-995
 - overview MIG-GD2-30, MIG-GD2-988
 - performance changes MIG-GD2-997
 - planning information MIG-GD2-988
 - prerequisite APARs MIG-GD2-988
 - publication changes MIG-GD2-997
 - segments MIG-GD2-993
 - SIP changes MIG-GD2-997
 - storage changes MIG-GD2-997
 - storage considerations MIG-GD2-997
 - system equates MIG-GD2-995
 - system errors MIG-GD2-995
 - system generation changes MIG-GD2-997
 - tuning changes MIG-GD2-997

- unlimited pool segment support *(continued)*
 - user exits MIG-GD2-995
- Unlock a Control Block Area macro SYS-MAC-330
- unlock a record hold table (RHT) SYS-MAC-90
- Unlock a Resource macro SYS-MAC-91
- unlock a virtual file access (VFA) SYS-MAC-90
- Unlock a Virtual File Access (VFA) or Record Hold Table (RHT) Lock macro SYS-MAC-90
- Unlock resource SYS-MAC-214
- unlock
 - a resource CLS-UGR-670
 - TPF global field or record CLS-UGR-286
- unmatched output SPM-PRM-86
- unpacking tapes SYS-GEN-171
- unprotected program
 - location of the demand counter MIG-GD1-219
- unprotected storage INS-PRM-403
- unprotected storage
 - description MIG-GD1-219
- unprotected working storage INS-PRM-403
- UNSET environment variables GEN-MAC-61
- unsolicited message directory (CODR)
 - fixed file records
 - initializing OPR-GDE-672
 - ZIUMP command OPR-GDE-672
- unsolicited message processor (UMP)
 - broadcast messages SYS-GEN-151
 - CODR directories SYS-GEN-150
 - routing variations SYS-GEN-150
- unsolicited message processor
 - data usage and I/O DCS-PRM-39
 - general description DCS-PRM-38
 - package overview DCS-PRM-37
 - performance considerations DCS-PRM-39
 - program organization DCS-PRM-39
 - ZIUMP command OPR-GDE-672
 - ZPUMP command OPR-GDE-1140
 - ZSNDA command OPR-GDE-1259
 - ZSNDU command OPR-GDE-1261
- unsolicited message
 - send to consoles MIG-GD1-81
 - send to logical units (LUs) MIG-GD1-81
- unsolicited messages/requests SNA-PRM-47
- unsolicited messages
 - deleting OPR-GDE-30, OPR-GDE-1140
 - displaying OPR-GDE-30
 - LOGP command OPR-GDE-30
 - LOGU command OPR-GDE-30
 - notifying agent of OPR-GDE-1140
 - sending to a logical unit OPR-GDE-1261
 - sending to a terminal OPR-GDE-1261
 - sending to an application OPR-GDE-1259
 - ZPUMP command OPR-GDE-1140
 - ZSNDA command OPR-GDE-1259
 - ZSNDU command OPR-GDE-1261
- Unsolicited Messages
 - notification methods SNA-PRM-250
- unsolicited package records
 - initializing OPR-GDE-672
 - ZIUMP command OPR-GDE-672
- up/down processing, cache DBS-REF-42
- update an existing cache entry CLS-UGR-673
- update list report
 - description of ACF-GDE-32
 - example ACF-GDE-63
- update message counters for TCP/IP applications CLS-UGR-635
- update sequence counter APP-GDE-108, APP-GDE-115, DBS-REF-142
- update sequence counters CON-STR-165
- update tape display INS-PRM-102
- update TPF global field or record CLS-UGR-288
- update, pool files DBS-REF-27
- updating elements APP-GDE-108
- updating
 - Internet daemon configuration file CLAWGR-235
 - TFTP configuration file CLAWGR-241
- UR (user real-time) table SYS-GEN-179
- UR1ST DSECT
 - unit record status bytes OPR-GDE-96, OPR-GDE-98
 - ZAURS AURT command OPR-GDE-96
 - ZAURS DURT command OPR-GDE-98
- URCTC macro GEN-MAC-514
- URTP user exit SNA-PRM-136
- USATC macro SYS-MAC-501
- use of da records SPM-PRM-87
- Use of global variables for CSECT statements PSM-GDE-27
- use of pool records GEN-MAC-6
- used in data transmission
 - socket concepts CLAWGR-120
- user MPI-PRM-3
- USER SYS-GEN-66
- user abends
 - for STC PDV-PRM-44
- User Datagram Protocol (UDP)
 - datagram sockets CLAWGR-119
- User DFC Interface
 - RCPL SNA-PRM-261
 - Request / Response Header (RH) SNA-PRM-261
 - Sequence Numbers SNA-PRM-261
- user exit and movable VIPAs CLAWGR-69
- user exit control list (UCL) INS-PRM-3
- User Exit Control macro GEN-MAC-519
- user exit CSK APP-GDE-225
- User Exit Interface Linkage macro SYS-MAC-506
- user exit status
 - record attribute
 - changing OPR-GDE-1244
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
- user exit, C stack exception routine APP-GDE-225, APP-GDE-313
- user exits MSP-PRM-31
- user exits CSECT (CCUEXT) INS-PRM-3
- user exits description MPI-PRM-7
- user exits for TPF/APPC SNA-PRM-107
- user exits, nonsocket
 - system states for CLAWGR-20
- user exits, recoup DBS-REF-116

user exits, socket

- cycle-up CLAWGR-123
- select TCP/IP support user exit CLAWGR-124
- socket accept CLAWGR-123
- socket activation CLAWGR-123
- socket connect CLAWGR-123
- socket cycle-up user exit CLAWGR-124
- socket deactivation CLAWGR-123
- system error CLAWGR-124
- TCP/IP native stack support accept connection user exit CLAWGR-124

user exits

- CDEB PDV-PRM-135, PDV-PRM-136, PDV-PRM-151
- CEXP PDV-PRM-136, PDV-PRM-151
- control program exits, by name
 - CCCPSE, exit point DOT INS-PRM-38
 - CCCPSE, exit point OMD INS-PRM-64
 - CCCPSE, exit point PER INS-PRM-66
 - CCCPSE, exit point PER2 INS-PRM-67
 - CCCPSE, exit point SER INS-PRM-92
 - CCCPSE, exit point SNP INS-PRM-80
 - CCCPSE, exit point SPX INS-PRM-79
 - CCCPSE, exit point SRX INS-PRM-91
 - CCCPSF, exit point CAT INS-PRM-20
 - CCCTIN exit points INS-PRM-22, INS-PRM-24
 - CCENBK, exit point CFB INS-PRM-11
 - CCENBK, exit point CREB INS-PRM-27
 - CCENBK, exit point DBTS INS-PRM-34, INS-PRM-35
 - CCENBK, exit point EFCE INS-PRM-42
 - CCENBK, exit point ENTD INS-PRM-36, INS-PRM-48
 - CCENBK, exit point ENTN INS-PRM-36, INS-PRM-48
 - CCENBK, exit point ENTR INS-PRM-36, INS-PRM-48
 - CCENBK, exit point FREB INS-PRM-53
 - CCENBK, exit point RTNX INS-PRM-43
 - CCNUCL, exit point CMCP INS-PRM-31
 - CCNUCL, exit point CMPI INS-PRM-32
 - CCNUCL, exit point CMXF INS-PRM-25
 - CCNUCL, exit point CPTI INS-PRM-29
 - CCNUCL, exit point CPTI INS-PRM-30
 - CCNUCL, exit point ECB INS-PRM-10, INS-PRM-46, INS-PRM-62, INS-PRM-93
 - CCNUCL, exit point FLM INS-PRM-52
 - CCNUCL, exit point FLX INS-PRM-51
 - CCNUCL, exit point SVW INS-PRM-89
 - CCNUCL, exit point SVX INS-PRM-88
 - CCNUCL, exit point WAI INS-PRM-107
 - CCSONP, exit point GPFA INS-PRM-65
 - CCTLOG, exit point WLOG INS-PRM-101
 - CCUEXT, exit point GPI INS-PRM-55
 - CLHV, exit point GBE INS-PRM-56
 - CLHV, exit point GBK INS-PRM-57
 - CLHV, exit point GCB INS-PRM-58
 - CLHV, exit point GSB INS-PRM-59
 - CLHV, exit point RBE INS-PRM-71
 - CLHV, exit point RBK INS-PRM-72
 - CLHV, exit point RCB INS-PRM-73

user exits (continued)

control program exits, by name (continued)

- CLHV, exit point RSB INS-PRM-74
- CPLX, exit point CDBI INS-PRM-12
- CPLX, exit point CDBR INS-PRM-14
- CSTRTD, exit point EFCX INS-PRM-41
- CSTRTD, exit point RTNE INS-PRM-45
- CTR0, exit point CDEB INS-PRM-100
- CTR0, exit point CEXP INS-PRM-105
- CUSR, exit point DFFC INS-PRM-96
- CUSR, exit point DFFR INS-PRM-97

control program exits, by subject

- BACKC macro entry (UCCCFB) INS-PRM-11
- C debugger hooks INS-PRM-14
- C debugger initialization INS-PRM-12
- C library function call INS-PRM-15
- C library function return INS-PRM-16
- C stack exception routine INS-PRM-17
- C stack exception routine return INS-PRM-19
- C trace environment customization INS-PRM-100
- C trace environment initialization INS-PRM-105
- C trace user data INS-PRM-98
- catastrophic recovery (UCCCAT) INS-PRM-20
- control transfer execution (UCCCMXF) INS-PRM-25
- core-resident enter/back macro (UCCCREB) INS-PRM-27
- CPU external interrupt exit point (UCCCPTE) INS-PRM-29
- CPU timer interrupt exit point (UCCCPTE) INS-PRM-30
- create macro control point (UCCCMCP) INS-PRM-31
- Create macro execution (UCCCMPI) INS-PRM-32
- critical record filing exit point (UCCCRI) INS-PRM-33
- dump override table (UCCDOT) INS-PRM-38
- dynamic load module environment initialization INS-PRM-39
- dynamic load module external function call (UCCEFCE) INS-PRM-42
- dynamic load module external function call exit (UCCEFCX) INS-PRM-41
- dynamic load module return processing entry (UCCRTNE) INS-PRM-45
- dynamic load module return processing exit (UCCRTNX) INS-PRM-43
- ENTDC macro (UCCENTD) INS-PRM-36, INS-PRM-48
- ENTNC macro (UCCENTN) INS-PRM-36, INS-PRM-48
- ENTRC macro (UCCENTR) INS-PRM-36, INS-PRM-48
- EXITC exit processing (UCCEXI) INS-PRM-49
- fast link macro decoder (UCCFLM) INS-PRM-52
- fast link macro exit (UCCFLX) INS-PRM-51
- file resident enter/back macro (UCCFREB) INS-PRM-53
- general post-interrupt routine (UXGPIR) INS-PRM-4
- get block INS-PRM-56, INS-PRM-57

user exits *(continued)*

control program exits, by subject *(continued)*

get common block INS-PRM-58
get system work block INS-PRM-59
library function call (ISO-C) INS-PRM-60
library function return (ISO-C) INS-PRM-61
PER exit point (UCCPER) INS-PRM-66
PER2 exit point (UCCPER2) INS-PRM-67
pool address retrieval exit point (UCCGPFA)
INS-PRM-65
RCS I/O queue thresholding exit point (UCCTHR)
INS-PRM-69
release block INS-PRM-71, INS-PRM-72
release common block INS-PRM-73
release system work block INS-PRM-74
RIAT exit point (UCCRIT) INS-PRM-75
ROUTC exit point (UCCRTC) INS-PRM-77
SNAPC error (UCCSNP) INS-PRM-80
SNAPC error exit (UCCSPX) INS-PRM-79
stack overflow processing entry INS-PRM-84
stack overflow processing exit INS-PRM-83
SVC macro exit INS-PRM-89
SVC macro exit (UCCSVX) INS-PRM-88
system error entry (UCCSER) INS-PRM-92
system error exit (UCCSRX) INS-PRM-91
TPFDF macro trace call INS-PRM-96
TPFDF macro trace return INS-PRM-97
transaction log write routine INS-PRM-101
update tape message exit routines (UCCLDD)
INS-PRM-102
user header label exit routines (UCCUHL)
INS-PRM-103
validate output tape exit routines (UCCVTO)
INS-PRM-106
WAITC macro (UCCWAI) INS-PRM-107
WTOPC message translation (UCCWTOP)
INS-PRM-108

control program exits, general information

CCUEXT INS-PRM-3
changing dynamic exit points to nondynamic
INS-PRM-3
changing nondynamic exit points to dynamic
INS-PRM-3
commands INS-PRM-3
common entry conditions INS-PRM-6
common programming considerations INS-PRM-7
common return conditions INS-PRM-7
creating INS-PRM-5
installing INS-PRM-4
performance considerations INS-PRM-1
UXCMC macro routine INS-PRM-4

controlling traces for C function trace PDV-PRM-136

CTRC PDV-PRM-136, PDV-PRM-151

customizing trace information for C function trace

PDV-PRM-151

E-type program exits, by segment

BK0UX INS-PRM-111
BRU1 INS-PRM-177
BRU2 INS-PRM-178
BRU3 INS-PRM-198
C542 INS-PRM-204

user exits *(continued)*

E-type program exits, by segment *(continued)*

CDBPUX INS-PRM-133
CDBUXT INS-PRM-226
CDC1 INS-PRM-124
CDC2 INS-PRM-123
CDLY INS-PRM-139
CIM2 INS-PRM-199
CL99 INS-PRM-151
CLA4 INS-PRM-170
CLCH INS-PRM-205
CLCI INS-PRM-208
CLCM INS-PRM-169
CLCQ INS-PRM-167
CLCS INS-PRM-206
CLCU INS-PRM-168
CLCV INS-PRM-207
CLCX INS-PRM-209
CLUD INS-PRM-130
CMVU INS-PRM-201
COBC INS-PRM-165
CPSD INS-PRM-210
CPSU INS-PRM-137, INS-PRM-227
CSJV INS-PRM-200
CSLJ INS-PRM-242
CSXA INS-PRM-153
CSXB INS-PRM-153
CSXC INS-PRM-153
CUIA INS-PRM-225
CUIR INS-PRM-224
CUIT INS-PRM-221
CUIV INS-PRM-223
CUIW INS-PRM-216
CVFX INS-PRM-238
CZ1UX INS-PRM-111
GCALX INS-PRM-119
GCLKX INS-PRM-119
GDATEX INS-PRM-119
UACC INS-PRM-214
UACP INS-PRM-125
UALS INS-PRM-188
UAPN INS-PRM-186
UARG INS-PRM-152
UBDB INS-PRM-126
UBOT INS-PRM-215
UCLB INS-PRM-197
UCOM INS-PRM-203
UCPY INS-PRM-166
UCS1 INS-PRM-122
UCST INS-PRM-121
UDE0 INS-PRM-142
UDNSEX INS-PRM-136
UDRR INS-PRM-228
UDRS INS-PRM-229
UEL1 INS-PRM-134
UEL2 INS-PRM-240
UEL3 INS-PRM-230
UELD INS-PRM-120
UELE INS-PRM-235
UELF INS-PRM-129
UEL4 INS-PRM-135

user exits *(continued)*

E-type program exits, by segment *(continued)*

UELH INS-PRM-192
UELI INS-PRM-143
UELL INS-PRM-150
UELN INS-PRM-196
UELR INS-PRM-118
UELU INS-PRM-194
UELW INS-PRM-128
UELX INS-PRM-195
UENV INS-PRM-149
UGST INS-PRM-231
UMIB INS-PRM-202
UOP1 INS-PRM-171
UOP2 INS-PRM-172
UOP3 INS-PRM-241
UPER INS-PRM-173
UPX0 INS-PRM-175
UPX1 INS-PRM-131
UPX2 INS-PRM-148
UPX3 INS-PRM-145
UPX6 INS-PRM-147
UPX7 INS-PRM-144
URS1 INS-PRM-180
URS2 INS-PRM-181
URTP INS-PRM-189
USC2 INS-PRM-183
USC3 INS-PRM-184
USC4 INS-PRM-185
USOK INS-PRM-191
USOT INS-PRM-236
UVIP INS-PRM-239
UXTD INS-PRM-211
UXTEQ INS-PRM-111
UXTH INS-PRM-233

E-type program exits, by subject

3270 welcome screen INS-PRM-242
auxiliary loader INS-PRM-143
clock global update INS-PRM-119
Common Link Access to Workstation (CLAW)
 device connection INS-PRM-168, INS-PRM-206
Common Link Access to Workstation (CLAW)
 device failures INS-PRM-167, INS-PRM-169,
 INS-PRM-208
common symbol table INS-PRM-121
communications source common INS-PRM-122
data macros INS-PRM-111
database reorganization INS-PRM-126
deactivation of processor movable VIPA exit
 INS-PRM-239
deadlock detection INS-PRM-130
dump data INS-PRM-137
dynamic LU INS-PRM-139
E-type loader INS-PRM-227
enterprise specific MIB INS-PRM-202
extra program record report INS-PRM-143
file system initialization INS-PRM-215
general file loader INS-PRM-143
Get a DNS IP address INS-PRM-136
get global environment lists INS-PRM-149
log recovery error processing INS-PRM-151

user exits *(continued)*

E-type program exits, by subject *(continued)*

LU 6.2 INS-PRM-153
manager validation for SNMP INS-PRM-203
message router user INS-PRM-165
messages, routing to nonsocket applications
 INS-PRM-170
MIBs, SNMP enterprise-specific INS-PRM-202
module copy selection/validation INS-PRM-166
nonsocket application activation INS-PRM-167
Nonsocket application activation INS-PRM-168
nonsocket application resource cleanup
 INS-PRM-169
nonsocket message INS-PRM-170
output message filtering INS-PRM-171
processor deactivation movable VIPA exit
 INS-PRM-239
program event INS-PRM-173
rapid transport protocol connection INS-PRM-189
recoup INS-PRM-177
recoup restart INS-PRM-179
screen connection requests INS-PRM-204
selective recoup INS-PRM-198
SLC type-B message handler INS-PRM-199
SNA communications source program
 INS-PRM-201
SNMP manager validation INS-PRM-203
socket application activation INS-PRM-205
Socket application activation INS-PRM-206
socket application resource cleanup
 INS-PRM-208, INS-PRM-209
socket cycle-up INS-PRM-207
system error INS-PRM-209, INS-PRM-210
system error message INS-PRM-210
system message processor INS-PRM-227
system restart INS-PRM-180
system state INS-PRM-182
tape display setup INS-PRM-211
TCP/IP INS-PRM-167, INS-PRM-168,
 INS-PRM-170, INS-PRM-191, INS-PRM-204,
 INS-PRM-206, INS-PRM-214
TPF MQSeries INS-PRM-216, INS-PRM-221,
 INS-PRM-223, INS-PRM-224, INS-PRM-225
user command processor INS-PRM-227
user data recovery copy support INS-PRM-229
user data recovery restore support INS-PRM-228
user global symbol table INS-PRM-231
user label routines INS-PRM-233
user symbol override table INS-PRM-236
validation of SNMP manager INS-PRM-203
VFA restart INS-PRM-238
virtual IP address (VIPA) processor deactivation
 exit INS-PRM-239
VisualAge debuggers INS-PRM-133,
 INS-PRM-226
WTOPC page control INS-PRM-241
E-type program exits, general information
 performance considerations INS-PRM-109
 user considerations INS-PRM-111
user expansion area user exit APP-GDE-225

- user expansion area
 - description of APP-GDE-223
- user ID CLS-UGR-35, CON-STR-150
- user ID
 - chown CLS-UGR-35
- user MIB variables and SNMP CLAWGR-93
- user names, TPF-supplied CLS-UGR-1410
- USER parameter CLAWGR-237
- user profile MPI-PRM-7
- user profile record (UPR) CLAWGR-255
- user profile record (UPR)
 - display the path to OPR-GDE-738
- user program allocation SYS-GEN-261
- user register save area APP-GDE-38
- user storage allocation SYS-MAC-501
- user table
 - reserve storage MIG-GD1-230
- user terminal control blocks SNA-PRM-325
- user trace area
 - initialization of PDV-PRM-136, PDV-PRM-151
- user traps, sending SNMP GEN-MAC-283
- user-defined block types GEN-MAC-246
- user-defined commands
 - creating OPR-GDE-559
 - deleting OPR-GDE-559
 - description of OPR-GDE-16
 - ZFMSG command OPR-GDE-559
- user-defined records
 - PTV input PDV-PRM-11
- user-modifiable equates
 - for coupling facility support DBS-REF-249
- USER
 - parameter examples SYS-GEN-67
- USERdata object DBS-REF-173
- USEREQ macro SYS-GEN-322
- using cursors with alternate key paths APP-GDE-110
- using dirty-reader protection in a TPF commit scope
 - DBS-REF-144
- using existing sockets applications CLAWGR-79
- using iterative operations over collections
 - DBS-REF-141
- using key paths with cursors DBS-REF-141
- using symbolic names, data event control blocks (DECBs) APP-GDE-31
- using the CHECKOUT option for C headers
 - PSM-GDE-25
- using the INFO option for C headers PSM-GDE-25
- Using the TFTP server from another system
 - APP-GDE-175
- USRSVC macro MSP-PRM-19, MSP-PRM-20, SYS-MAC-504
- USRTPF macro SYS-GEN-183
- USURC macro GEN-MAC-517
- utilities
 - data set overview MIG-GD1-10
 - PIUPRT MIG-GD1-256
 - SNA I/O trace facility MIG-GD1-303
- utility (UTIL) state
 - cycling to OPR-GDE-239
 - description of OPR-GDE-9
 - ZCYCL command OPR-GDE-239
- utility processor resource ownership table (PROT)
 - updating OPR-GDE-1128
- utility name
 - adding OPR-GDE-1128
 - deleting OPR-GDE-1128
- utility resource ownership
 - assigning OPR-GDE-1128
 - displaying OPR-GDE-1130
 - releasing OPR-GDE-1128
 - ZPROT command OPR-GDE-1128
- utility segments/subroutines APP-GDE-282
- utility state MSP-PRM-6
- utilization SYS-GEN-48
- utilization
 - processor SPM-PRM-23
 - resource SPM-PRM-23
- UTL tapes OPR-GDE-19
- UTPROT macro SYS-GEN-326
- UVIP user exit and movable VIPAs CLAWGR-69
- UXCMC macro GEN-MAC-519
- UXCMC macro routine INS-PRM-4
- UXGPIR macro routine INS-PRM-4
- UXITC macro SYS-MAC-506
- UXITC macro routine INS-PRM-1
- UXMAC macro GEN-MAC-523

V

- V-con CON-STR-79
- V-type constant (VCON)
 - changes MIG-GD1-227
- V-type programs MSP-PRM-33
- VALBC macro GEN-MAC-528
- VALBC macro
 - validate block addresses MIG-GD1-310
- Validate Entry Control Block (ECB) Virtual Memory (EVM) Address macro SYS-MAC-93
- Validate MCHR GEN-MAC-366
- validate output tapes INS-PRM-106
- validate SNMP manager INS-PRM-203
- Validate Storage Block Address macro GEN-MAC-528
- Validate Use of Restricted Macro macro SYS-MAC-14
- validate
 - LNIATA GEN-MAC-333
 - NAU GEN-MAC-333
 - RID GEN-MAC-333
 - RVTx GEN-MAC-333
 - SCB GEN-MAC-333
 - SCBID GEN-MAC-333
- validating a collection CLS-UGR-1340
- validating a data event control block (DECB)
 - CLS-UGR-584
- validation of EVM addresses SYS-MAC-93
- validation support CON-STR-166, DBS-REF-145
- value, retrieving for a property CLS-UGR-1060
- variable binding lists, SNMP CLAWGR-91
- variable cross-reference (VCRS) listing program
 - cross-referencing global variable symbols to PDS members INS-PRM-409
 - dataset definition statements INS-PRM-410
 - dataset definition statements
 - SORTIN INS-PRM-410

- variable cross-reference (VCRS) listing program
(*continued*)
 - dataset definition statements (*continued*)
 - SORTLIB INS-PRM-410
 - SORTOUT INS-PRM-410
 - SYSPRINT INS-PRM-410
 - error messages INS-PRM-414
 - finding global variable symbols in a PDS
INS-PRM-409
 - finding programs in a PDS INS-PRM-409
 - PDS option defaults INS-PRM-413
- variable initiation SPM-PRM-93
- variables table, MIB CLAWGR-423
- VARY command SNA-PRM-99
- VC (virtual circuits) SNA-PRM-29
- VCCB (Virtual Circuit Control Block) SNA-PRM-324
- VCHKC macro GEN-MAC-531
- VCLSC macro GEN-MAC-533
- VCONC macro PSM-GDE-28
- VCT (Virtual file access count) list CON-STR-61
- VENDC macro GEN-MAC-535
- VEQR (virtual equals real)
 - description GIM-28
- VEQR keyword MIG-GD1-262
- verb functions, TPF/APPC SNA-PRM-72
- verify condition CLS-UGR-15
- verify condition
 - print diagnostic message CLS-UGR-15
- VERIFY keyword of VTAM APPL statement
 - conversational security AR-USG-19
 - specifying NONE AR-USG-19
- verify private key- public key agreement in the certificate
 - SSL API function, SSL_CTX_check_private_key
CLAWGR-280
- verify private key-public key agreement
 - SSL API function, SSL_check_private_key
CLAWGR-277
- verify statistical ID counts
 - ZRECP VERIFY command OPR-GDE-1211
- VERSION parameter of DB2 precompiler AR-USG-34
- vertical record allocation CON-STR-97
- VFA SYS-MAC-29
- VFA buffer CON-STR-138
- VFA buffers
 - buffer ratio
 - defining OPR-GDE-1419
 - displaying OPR-GDE-1421
 - flush a record SYS-MAC-241, SYS-MAC-246
 - reserve chain size
 - defining OPR-GDE-1419
 - displaying OPR-GDE-1421
 - residency of VFA candidate records DBS-REF-37
 - reuse threshold value
 - defining OPR-GDE-1419
 - status
 - displaying OPR-GDE-1421
 - ZVFAC DEFINE command OPR-GDE-1419
 - ZVFAC DISPLAY command OPR-GDE-1421
- VFA candidacy
 - record attribute
 - changing OPR-GDE-1244
- VFA candidacy (*continued*)
 - record attribute (*continued*)
 - displaying OPR-GDE-1240
 - ZRTDM DISPLAY command OPR-GDE-1240
 - ZRTDM MODIFY command OPR-GDE-1244
 - RIAT pool overrides
 - changing OPR-GDE-1242
 - displaying OPR-GDE-1239
 - ZRTDM DISPLAY command OPR-GDE-1239
 - ZRTDM MODIFY command OPR-GDE-1242
- VFA candidate
 - define for VFA synchronization MIG-GD2-401
 - update the record ID attribute table (RIAT)
MIG-GD2-401
- VFA delayed-filing APP-GDE-262
- VFA synchronization
 - API changes MIG-GD2-400
 - architecture MIG-GD2-387
 - C/C++ language MIG-GD2-387
 - CINFC tags MIG-GD2-388
 - coexistence with previous PUT 2 MIG-GD2-401
 - commnds MIG-GD2-397
 - comparison to VFA MIG-GD2-31, MIG-GD2-386
 - CONKNC tags MIG-GD2-388
 - copy members MIG-GD2-388
 - database changes MIG-GD2-400
 - define a VFA candidate MIG-GD2-401
 - enhancements to VFA MIG-GD2-31, MIG-GD2-386
 - fallback scenarios MIG-GD2-402
 - feature changes MIG-GD2-400
 - fixed file records MIG-GD2-389
 - functional changes MIG-GD2-397
 - functional overview MIG-GD2-386
 - hardware MIG-GD2-387
 - host system changes MIG-GD2-400
 - installation validation MIG-GD2-401
 - interfaces MIG-GD2-387
 - loading process MIG-GD2-399
 - loosely coupled environment MIG-GD2-31,
MIG-GD2-386
 - macros MIG-GD2-389
 - migration scenarios MIG-GD2-401
 - offline messages MIG-GD2-398
 - online messages MIG-GD2-398
 - online system load MIG-GD2-400
 - operating environment requirements MIG-GD2-387
 - operational changes MIG-GD2-397
 - overview MIG-GD2-31, MIG-GD2-386
 - performance MIG-GD2-31, MIG-GD2-387
 - performance changes MIG-GD2-399
 - planning information MIG-GD2-387
 - prerequisite APARs MIG-GD2-386
 - publication changes MIG-GD2-400
 - record ID attribute table (RIAT) MIG-GD2-401
 - segments MIG-GD2-391
 - SIP changes MIG-GD2-399
 - software (programming requirements) MIG-GD2-387
 - storage changes MIG-GD2-399
 - storage considerations MIG-GD2-399
 - synchronization across processors MIG-GD2-31,
MIG-GD2-386

VFA synchronization (*continued*)
 system equates MIG-GD2-397
 system errors MIG-GD2-398
 system generation changes MIG-GD2-399
 tuning changes MIG-GD2-399
 user exits MIG-GD2-397
 VFA area MIG-GD2-31, MIG-GD2-386
 VFA candidacy MIG-GD2-31, MIG-GD2-386

VFA
 buffer ratio DBS-REF-39
 buffer reuse threshold value DBS-REF-39
 buffers DBS-REF-37
 candidate records DBS-REF-35
 control program DBS-REF-37
 data record processing DBS-REF-36
 defining record groups DBS-REF-35
 flushing target records from VFA DBS-REF-36
 hardware requirements DBS-REF-40
 introduction DBS-REF-35
 macros to use DBS-REF-36
 main storage DBS-REF-37
 messages DBS-REF-40
 program record processing DBS-REF-36
 record selection DBS-REF-38
 records DBS-REF-35
 reference counter DBS-REF-37
 reserve chain size DBS-REF-39
 resetting the file RIAT control values DBS-REF-40
 resource definition DBS-REF-37
 restart DBS-REF-40
 tables DBS-REF-37
 trip value DBS-REF-39
 using the capture and restore utility DBS-REF-36
 using the ZRTDM DISPLAY command DBS-REF-37,
 DBS-REF-38
 using the ZRTDM MODIFY command DBS-REF-37,
 DBS-REF-38
 using the ZRTDM RESET command DBS-REF-40
 working storage DBS-REF-37
 ZVFAC DEFINE DBS-REF-39

VGENC macro GEN-MAC-537
VGETC macro GEN-MAC-544
via a page 0 reference CON-STR-28
VIPA support
 See movable virtual IP address (VIPA) support
VIPAC macro GEN-MAC-546
VIPAC macro use for moving a VIPA CLAWGR-69
virtual address CON-STR-26
virtual address space CON-STR-72
virtual address
 convert to real addresses for use by CCWs
 MIG-GD1-230
virtual addressing CON-STR-25, CON-STR-27
Virtual Circuit Control Block (VCCB) SNA-PRM-324
virtual circuits (VC)
 Permanent Virtual Circuits (PVC) SNA-PRM-29
 switched virtual circuits (SVC) SNA-PRM-29
virtual file access (VFA) CON-STR-138, SYS-GEN-24
virtual file access (VFA) support
 delay file support
 disabling OPR-GDE-1418

virtual file access (VFA) support (*continued*)
 delay file support (*continued*)
 enabling OPR-GDE-1418
 efficiency statistics
 displaying OPR-GDE-1424
 FARF file address
 locating OPR-GDE-1426
 file address
 flushing OPR-GDE-1423
 purging OPR-GDE-1429
 removing from VFA OPR-GDE-1423,
 OPR-GDE-1429
 fixed file record
 locating OPR-GDE-1426
 flushing
 file address OPR-GDE-1423
 record ID OPR-GDE-1423
 MCHR file address
 locating OPR-GDE-1426
 measurements
 displaying OPR-GDE-1424
 programs
 locating OPR-GDE-1426
 purging
 file address OPR-GDE-1429
 record ID OPR-GDE-1429
 record ID
 flushing OPR-GDE-1423
 purging OPR-GDE-1429
 removing from VFA OPR-GDE-1423,
 OPR-GDE-1429
 status
 displaying OPR-GDE-1421
 VFA residents
 locating OPR-GDE-1426
 ZVFAC command OPR-GDE-1418
 ZVFAC DEFINE command OPR-GDE-1419
 ZVFAC DISPLAY command OPR-GDE-1421
 ZVFAC FLUSH command OPR-GDE-1423
 ZVFAC INDICATE command OPR-GDE-1424
 ZVFAC LOCATE command OPR-GDE-1426
 ZVFAC PURGE command OPR-GDE-1429

virtual file access (VFA)
 aging out process CON-STR-139
 buffer CON-STR-138
 buffer allocation for the VFA reserve chain
 MIG-GD1-249
 buffer
 allocation for the VFA reserve chain
 MIG-GD1-249
 flush MIG-GD1-249
 use for DASD file operations MIG-GD1-249
 buffers MIG-GD1-249
 candidacy characteristics CON-STR-104
 candidate
 access most recent copy MIG-GD1-247
 access processor unique record MIG-GD1-247
 performance monitoring facility MIG-GD1-248
 tune MIG-GD1-248
 changes MIG-GD1-214, MIG-GD1-248
 counters maintained MIG-GD1-285

- virtual file access (VFA) *(continued)*
 - data format MIG-GD1–285
 - define resources MIG-GD1–84
 - delay file CON-STR–104, CON-STR–139
 - description CON-STR–138, MIG-GD1–248
 - display resources MIG-GD1–84
 - facility APP-GDE–279
 - flush records MIG-GD1–249
 - immediate file CON-STR–104, CON-STR–139
 - indicate measurements MIG-GD1–84
 - indicators MIG-GD1–249
 - interface from exception recording to VFA
MIG-GD1–249
 - locate residents MIG-GD1–84
 - loosely coupled considerations CON-STR–139
 - offline performance monitoring facility MIG-GD1–248
 - online performance monitoring facility MIG-GD1–248
 - overview MIG-GD1–22
 - purge records MIG-GD1–249
 - record ID attribute table (RIAT) CON-STR–104
 - reserve chain
 - size MIG-GD1–249
 - resources
 - performance monitoring facility MIG-GD1–248
 - tune MIG-GD1–248
 - size MIG-GD1–214
 - start MIG-GD1–84
 - stop MIG-GD1–84
 - storage
 - allocate MIG-GD1–249
 - tune MIG-GD1–241, MIG-GD1–249
 - user exit CON-STR–139
 - VFA candidate options MIG-GD1–216
- virtual file access count (VCT) list CON-STR–61
- virtual IP address (VIPA) processor deactivation exit
INS-PRM–239
- virtual IP address (VIPA) support
 - adding VIPAs OPR-GDE–1104
 - deleting VIPAs OPR-GDE–1104
 - displaying information about individual CPUs and
VIPAs OPR-GDE–1430
 - moving from one processor to another
OPR-GDE–1430
 - summarizing system workload levels and virtual IP
address statistics OPR-GDE–1430
 - ZOSAE command OPR-GDE–1104
 - ZVIPA command OPR-GDE–1430
- virtual IP address (VIPA)
 - moving to another processor GEN-MAC–546
- virtual IP addresses (VIPAs)
 - and workload balancing CLAWGR–69
 - defining CLAWGR–64
 - deleting CLAWGR–65
 - displaying CLAWGR–65
 - movable CLAWGR–64
 - moving by application program CLAWGR–69
 - moving to another processor CLAWGR–68
 - static CLAWGR–64
 - swinging CLAWGR–68
 - types CLAWGR–64
 - using with an OSA-Express connection CLAWGR–63
- virtual memory
 - ECB virtual memory (EVM) CON-STR–26,
CON-STR–72
 - IPL virtual memory (IVM) CON-STR–26,
CON-STR–72
 - system virtual memory (SVM) CON-STR–26,
CON-STR–72
- virtual route (VR) activation SNA-PRM–228
- virtual route (VR) pacing
 - displaying OPR-GDE–1012
 - tracing OPR-GDE–1052
 - ZNPIU command OPR-GDE–1012
 - ZNTRP command OPR-GDE–1052
- virtual route assignment for CTC
 - for LU-LU session for CTC SNA-PRM–228
- virtual route resynchronization SNA-PRM–231
- virtual route
 - input list timeout value
 - defining OPR-GDE–953
 - pacing information
 - displaying OPR-GDE–972
 - pacing requests
 - tracing OPR-GDE–1052
 - pacing responses
 - common blocks required OPR-GDE–975
 - entry control blocks (ECBs) required
OPR-GDE–975
 - frame blocks required OPR-GDE–976
 - input/output blocks (IOBs) required
OPR-GDE–976
 - system work blocks (SWBs) required
OPR-GDE–977
 - tracing OPR-GDE–1052
 - pacing window
 - defining OPR-GDE–953
 - resynchronization
 - timeout value OPR-GDE–981
 - sequence number
 - resynchronizing OPR-GDE–974
 - timeout value
 - defining OPR-GDE–953
 - ZNDYN ADD command OPR-GDE–953
 - ZNETW ROUTE command OPR-GDE–972
 - ZNKEY command OPR-GDE–974, OPR-GDE–975,
OPR-GDE–976, OPR-GDE–977, OPR-GDE–981
 - ZNTRP command OPR-GDE–1052
- virtual routing information
 - displaying OPR-GDE–972
 - ZNETW ROUTE command OPR-GDE–972
- virtual storage
 - description MIG-GD1–213
 - layout MIG-GD1–213, MIG-GD1–297
 - layout of APP-GDE–237, CON-STR–73,
MIG-GD1–215, MSP-PRM–51, SYS-GEN–35
- Virtual Telecommunications Access Method (VTAM)
SNA-PRM–46
- Virtual Telecommunications Access Method (VTAM)
communications management configuration (CMC)
CON-STR–186
- virtual-equals-real (VEQR) mode
 - addressing MIG-GD1–297

- virtual-equals-real (VEQR) mode *(continued)*
 - change to VEQR mode MIG-GD1-296
 - convert from a nonvirtual to a virtual system MIG-GD1-296
 - EVM addresses. MIG-GD1-297
 - functions MIG-GD1-296
 - how it works MIG-GD1-297
 - migration testing MIG-GD1-296
 - operating mode for testing MIG-GD1-296
 - overview MIG-GD1-293, MIG-GD1-296
 - performance impacts MIG-GD1-296
 - production environment use MIG-GD1-296
 - run E-type programs MIG-GD1-296
 - start MIG-GD1-298
 - start and stop MIG-GD1-298
 - stop MIG-GD1-298
 - SVM addresses MIG-GD1-297
 - turn off MIG-GD1-298
 - turn on MIG-GD1-298
 - turn on and off MIG-GD1-298
 - ZSTRC command MIG-GD1-295
- visibility rule APP-GDE-97
- VisualAge TPF debug server
 - See also TPF C Debugger for VisualAge Client
 - clearing OPR-GDE-287
 - displaying OPR-GDE-287
 - starting OPR-GDE-287
 - stopping OPR-GDE-287
 - ZDEBUG command OPR-GDE-287
- VisualAge TPF for Windows NT
 - See TPF C Debugger for VisualAge Client
- VM
 - running tightly coupled under SYS-GEN-50
- volume serial number (VSN)
 - alter MIG-GD1-64
 - changes to naming scheme MIG-GD1-212
 - command
 - ZAVSN MIG-GD1-64
 - ZDVSN MIG-GD1-70
 - display MIG-GD1-70
 - overview MIG-GD1-274
- volume serial number
 - changing OPR-GDE-107
 - displaying OPR-GDE-397
 - ZAVSN command OPR-GDE-107
 - ZDVSN command OPR-GDE-397
- volume serial numbers
 - how to code SYS-GEN-282, SYS-GEN-283
 - TPF VSN example SYS-GEN-85
 - VSN migration tool SYS-GEN-86, SYS-GEN-249
- volume table of contents (VTOC)
 - displaying for general data set OPR-GDE-374
 - ZDSMG VTOC command OPR-GDE-374
- VOPNC macro GEN-MAC-548
- VPNTC macro GEN-MAC-550
- VR (virtual route) activation SNA-PRM-228
- VRITLO parameter
 - CTC statement ACF-GDE-51
 - NCP statement ACF-GDE-49
- VRRTO parameter
 - SNAKEY macro ACF-GDE-19
- VRTO parameter
 - CTC statement ACF-GDE-51
 - NCP statement ACF-GDE-48
- VSAM APP-GDE-201
- VSAM database
 - API changes MIG-GD2-612
 - architecture MIG-GD2-606
 - C/C++ language MIG-GD2-608
 - CINFC tags MIG-GD2-608
 - commands MIG-GD2-611
 - CONKC tags MIG-GD2-608
 - copy members MIG-GD2-608
 - database changes MIG-GD2-612
 - feature changes MIG-GD2-612
 - fixed file records MIG-GD2-609
 - functional changes MIG-GD2-611
 - functional overview MIG-GD2-606
 - hardware MIG-GD2-607
 - host system changes MIG-GD2-612
 - installation validation MIG-GD2-612
 - interfaces MIG-GD2-608
 - loading process MIG-GD2-612
 - macros MIG-GD2-609
 - migration scenarios MIG-GD2-613
 - offline messages MIG-GD2-611
 - online messages MIG-GD2-611
 - online system load MIG-GD2-612
 - operating environment requirements MIG-GD2-607
 - operational changes MIG-GD2-611
 - overview MIG-GD2-606
 - performance changes MIG-GD2-611
 - planning information MIG-GD2-607
 - prerequisite APARs MIG-GD2-606
 - publication changes MIG-GD2-612
 - segments MIG-GD2-611
 - SIP changes MIG-GD2-612
 - software (programming requirements) MIG-GD2-607
 - storage changes MIG-GD2-612
 - storage considerations MIG-GD2-612
 - system equates MIG-GD2-611
 - system errors MIG-GD2-611
 - system generation changes MIG-GD2-612
 - tuning changes MIG-GD2-611
 - user exits MIG-GD2-611
 - VSAM database support MIG-GD2-31
- VSAM
 - concepts APP-GDE-201
 - database support APP-GDE-202
 - database support
 - database constraints APP-GDE-207
 - disk mirroring APP-GDE-204
 - error recovery APP-GDE-213
 - request flow control APP-GDE-209
 - return codes APP-GDE-213
 - with other utilities APP-GDE-209
- VSHOC macro GEN-MAC-552
- VTAM (Virtual Telecommunications Access Method)
 - SNA-PRM-46, SNA-PRM-233
- VTAM APPL statement AR-USG-16, AR-USG-18
- VTAM APPL statement
 - defining AR-USG-19, AR-USG-21

VTAM APPL statement (*continued*)
 EAS keyword AR-USG-18
 PRTCT keyword AR-USG-18
 SECACPT keyword AR-USG-19
 VERIFY keyword AR-USG-19
 VTAM Considerations SNA-PRM-243
 VTAM Considerations
 for FTPI (Fast Transaction Processing Interface)
 SNA-PRM-37
 VTAM definitions for TPF applications AR-USG-19
 VTAM DELAY operand SNA-PRM-225
 VTAM interpret tables
 definition MIG-GD1-253
 VTAM requirements for TPFAR AR-USG-18
 VTAM requirements for TPFAR
 connecting TPF and DB2 AR-USG-19
 RU sizes and pacing considerations AR-USG-19

W

W-level error messages ACF-GDE-31
 WAIT SNA-PRM-77
 wait completion
 shared PR/SM MIG-GD2-109
 wait for a signal CLS-UGR-388
 Wait for Event Completion macro GEN-MAC-187
 wait for event completion macro (EVNWC)
 MSP-PRM-17
 wait for event completion with signal awareness
 CLS-UGR-627
 wait for event completion, signal aware macro
 GEN-MAC-345
 wait for outstanding I/O completion CLS-UGR-686
 wait for request to be completed GEN-MAC-531
 wait for status information from a child process
 CLS-UGR-684
 Wait macro GEN-MAC-15
 WAIT process model APP-GDE-172, APP-GDE-176,
 APP-GDE-179, APP-GDE-183
 wait states
 IPL program OPR-GDE-5
 machine check interruption handler OPR-GDE-7
 system error program OPR-GDE-6
 system initialization OPR-GDE-6
 WAITC macro GEN-MAC-554
 WAITC macro
 using in conditional expression SPM-18
 WAN CLAWGR-3
 Web page APP-GDE-173, APP-GDE-175
 Web pages
 retrieving CON-STR-193
 storing CON-STR-192
 weighted message SPM-PRM-22
 weighted message milliseconds SPM-PRM-83
 weighted values, cache DBS-REF-43
 weighted-message rate
 report SPM-PRM-67
 weighting factor SPM-PRM-23
 WGTA entry lock release SYS-MAC-418
 WGTA table APP-GDE-12, APP-GDE-42
 WTAC macro GEN-MAC-556

WINSIZE parameter
 CTC statement ACF-GDE-50
 NCP statement ACF-GDE-48
 WLOGC SYS-MAC-508
 WLOGC write processing INS-PRM-101
 work areas in ECB APP-GDE-25, APP-GDE-26
 work block address
 get SYS-MAC-48
 work block
 release system SYS-MAC-79
 work blocks for TPF/APPC SNA-PRM-68
 work scheduling CON-STR-8
 working directory
 chdir CLS-UGR-30
 path name CLS-UGR-252
 working keypoint DBS-REF-91
 working keypoint area MSP-PRM-11
 working storage APP-GDE-236, APP-GDE-237,
 CON-STR-73, CON-STR-74, SYS-GEN-41
 working storage block GEN-MAC-244
 working storage block release CLS-UGR-421
 working storage estimating SYS-GEN-42
 working storage utilization SPM-PRM-16
 working storage
 16-MB constraint relief MIG-GD1-22, MIG-GD1-212
 4K common frame CON-STR-74
 4K frame CON-STR-74
 allocate MIG-GD1-214, MIG-GD1-249
 block size design criteria SYS-GEN-42
 change values online MIG-GD1-214
 changes MIG-GD1-212, MIG-GD1-307
 configuration SPM-PRM-26
 content MIG-GD1-214
 control program macros MIG-GD1-278
 data integrity MIG-GD1-213
 dynamic address translation (DAT) facility
 MIG-GD1-22
 ECB life SYS-GEN-41
 ECB limit MIG-GD1-307
 enhancements GIM-23
 entry control block (ECB) CON-STR-74
 five areas SYS-GEN-41
 get MIG-GD1-307
 heap storage CON-STR-75, MIG-GD1-13,
 MIG-GD2-13
 I/O block (IOB) CON-STR-74
 initial allocation SYS-GEN-43
 logical storage block CON-STR-74
 manage MIG-GD1-278
 MDBF considerations SYS-GEN-42
 message life SYS-GEN-42
 nesting SYS-GEN-42
 overview MIG-GD1-22
 per message SYS-GEN-42
 physical storage block CON-STR-74
 relationship of common frame to common block
 CON-STR-75
 relationship of frame to logical block CON-STR-74
 release MIG-GD1-307
 system work block (SWB) CON-STR-74
 system work blocks SYS-GEN-42

- working storage *(continued)*
 - total SPM-PRM-83
 - transaction protection MIG-GD1-213
 - using SPM-PRM-83
 - view MIG-GD1-22
- workload balancing with movable VIPAs CLAWGR-69
- wrapping of output CLS-UGR-402
- Write a CLAW Error Log macro SYS-MAC-477
- Write a General Tape Record macro GEN-MAC-492
- Write a Real-Time Tape Record and Release Core Block macro GEN-MAC-409
- Write a Real-time Tape Record macro GEN-MAC-411
- write a record to general tape CLS-UGR-540, CLS-UGR-646
- write application data across an SSL session
 - SSL API function, `SSL_write` CLAWGR-334
- write buffer to file CLS-UGR-144
- write buffers (4K) SNA-PRM-225
- write core block images to the external device
 - CLS-UGR-1386
- Write Critical Message to the System Console macro
 - SYS-MAC-200
- write data from the malloc area to an external device,
 - `TPFxd_write` CLS-UGR-1384
- write data on a connected socket
 - socket API function, `write` CLAWGR-226
 - socket API function, `writew` CLAWGR-229
- Write Path Information Unit (PIU) Systems Network Architecture (SNA) Input/Output (I/O) macro
 - SYS-MAC-453
- write PIU to NCP 37x5 macro (SOUTC) CON-STR-182
- write protect
 - logical setting SYS-GEN-54
- write real-time tape record CLS-UGR-558
- write real-time tape record and release storage block
 - CLS-UGR-557
- Write to the Recovery Log macro SYS-MAC-508
- write-flags (SMSCWF) field SNA-PRM-25
- write-type (SMSCWT) field SNA-PRM-25
- writing records to an external device CLS-UGR-1357
- writing records to tape GEN-MAC-16
- writing the IP trace table to a real-time tape
 - CLAWGR-409
- writing
 - executable script APP-GDE-189
 - Internet server application APP-GDE-167
- wrong length records GEN-MAC-19
- WRSTC SYS-MAC-512
- WTC support SYS-GEN-183
- WTOPC macro GEN-MAC-559, MIG-GD1-22
- WTOPC message translation INS-PRM-108
- WTOPC
 - availability to the system MIG-GD1-228
 - changes MIG-GD1-230
 - overview MIG-GD1-22
 - paging control MIG-GD1-22

X

- X.25 CON-STR-186
- X.25 ALC interface (XALCI) SNA-PRM-2

- X.25 ALC interface (XALCI)
 - configuration SNA-PRM-56
 - for switched or permanent virtual circuits
 - SNA-PRM-50
 - header formats SNA-PRM-54
 - message flow SNA-PRM-56
- X.25 gateway considerations SNA-PRM-53
- X.25 link control block (XLCB) SNA-PRM-324
- X.25 network control block (XNCB) SNA-PRM-324
- X.25 support SYS-GEN-8
- X.25
 - command message flows SNA-PRM-328
 - data message flows SNA-PRM-335
 - interface SNA-PRM-3
 - link control block SNA-PRM-324
 - message SNA-PRM-30
 - network control block SNA-PRM-324
 - protocols SNA-PRM-253
- X'18' displacement
 - changes MIG-GD1-229, MIG-GD1-235
 - description MIG-GD1-235
 - subtraction
 - overview MIG-GD1-235
 - stop between object code and listings
 - MIG-GD1-229
 - stop from re-assembled code MIG-GD1-229
- XALCI (X.25 ALC interface) SNA-PRM-2
- XALCI (X.25 ALC interface)
 - configuration SNA-PRM-56
 - for switched or permanent virtual circuits
 - SNA-PRM-50
 - header formats SNA-PRM-54
 - message flow SNA-PRM-56
- XCx tapes OPR-GDE-19
- XLAD table SYS-GEN-138
- XLCB (X.25 link control block) SNA-PRM-324
- XLF lock table CON-STR-144
- XLF lock table
 - relation to record hold table CON-STR-144
- XLMA (XMLT assembly area) SYS-GEN-138
- XML parser
 - API changes MIG-GD2-1004
 - architecture MIG-GD2-1000
 - C/C++ language MIG-GD2-1001
 - CINFC tags MIG-GD2-1002
 - CONKC tags MIG-GD2-1002
 - copy members MIG-GD2-1002
 - database changes MIG-GD2-1004
 - feature changes MIG-GD2-1004
 - fixed file records MIG-GD2-1002
 - functional changes MIG-GD2-1003
 - functional overview MIG-GD2-1000
 - host system changes MIG-GD2-1004
 - installation validation MIG-GD2-1004
 - interfaces MIG-GD2-1001
 - loading process MIG-GD2-1004
 - macros MIG-GD2-1002
 - migration scenarios MIG-GD2-1004
 - online system load MIG-GD2-1004
 - operating environment requirements MIG-GD2-1001
 - operational changes MIG-GD2-1003

XML parser *(continued)*

- overview MIG-GD2-1000
- performance changes MIG-GD2-1003
- planning information MIG-GD2-1001
- prerequisite APARs MIG-GD2-1000
- publication changes MIG-GD2-1004
- segments MIG-GD2-1003
- SIP changes MIG-GD2-1004
- storage changes MIG-GD2-1004
- storage considerations MIG-GD2-1004
- system equates MIG-GD2-1003
- system generation changes MIG-GD2-1004
- tuning changes MIG-GD2-1003
- user exits MIG-GD2-1003

XML4C parser 3.5.1

- API changes MIG-GD2-1248
- architecture MIG-GD2-1245
- C/C++ language MIG-GD2-1245
- CINFC tags MIG-GD2-1247
- CONKC tags MIG-GD2-1246
- copy members MIG-GD2-1247
- database changes MIG-GD2-1248
- feature changes MIG-GD2-1248
- fixed file records MIG-GD2-1247
- functional changes MIG-GD2-1247
- functional overview MIG-GD2-1244
- host system changes MIG-GD2-1248
- installation validation MIG-GD2-1248
- interfaces MIG-GD2-1245
- loading process MIG-GD2-1247
- macros MIG-GD2-1247
- migration scenarios MIG-GD2-1248
- online system load MIG-GD2-1247
- operating environment requirements MIG-GD2-1245
- operational changes MIG-GD2-1247
- overview MIG-GD2-1244
- performance changes MIG-GD2-1247
- planning information MIG-GD2-1245
- prerequisite APARs MIG-GD2-1244
- publication changes MIG-GD2-1247
- segments MIG-GD2-1247
- SIP changes MIG-GD2-1247
- storage changes MIG-GD2-1247
- storage considerations MIG-GD2-1247
- system equates MIG-GD2-1247
- system generation changes MIG-GD2-1247
- tuning changes MIG-GD2-1247
- user exits MIG-GD2-1247

XNCB (X.25 network control block) SNA-PRM-324

xternalObject DBS-REF-213

XXX tapes OPR-GDE-19

Y

Year 2000

- APARs MIG-GD2-279

- overview MIG-GD2-279

- Program update tape-level customers MIG-GD2-279

yield control CLS-UGR-639

Yield Processing macro SYS-MAC-514

YIELD macro SYS-MAC-514

YYY tapes OPR-GDE-19

Z

Z Mxyy command OPR-GDE-34

Z3705 CLD command OPR-GDE-35

Z3705 DMP command OPR-GDE-36

Z3705 DSP command OPR-GDE-38

Z3705 IPL command OPR-GDE-40

Z3705 PRG command OPR-GDE-42

Z3705 RNT command OPR-GDE-43

Z3705 SCR command OPR-GDE-44

Z3705 TRC command OPR-GDE-45

ZACLV MSP-PRM-21

ZACLV command OPR-GDE-48

ZACOR MSP-PRM-27

ZACOR command OPR-GDE-51

ZACRS command OPR-GDE-53

ZADCA MSP-PRM-27

ZADCA command OPR-GDE-60

ZAFIL MSP-PRM-28

ZAFIL command OPR-GDE-62

ZAGFL command OPR-GDE-65

ZALCT command OPR-GDE-66

ZALMT command OPR-GDE-67

ZAMAP command OPR-GDE-68

ZAMOD command OPR-GDE-69

ZAPAT MSP-PRM-28

ZAPAT command OPR-GDE-71

ZAPGM MSP-PRM-28

ZAPGM command OPR-GDE-77

ZAREC MSP-PRM-28

ZAREC command OPR-GDE-81

ZASER command OPR-GDE-12, OPR-GDE-84

ZATIM command OPR-GDE-88, OPR-GDE-90

ZATME command OPR-GDE-94

ZAURS ABRT command OPR-GDE-95

ZAURS AURT command OPR-GDE-96

ZAURS DURT command OPR-GDE-98

ZAURS FCBL command OPR-GDE-100

ZAURS LUCS command OPR-GDE-102

ZAURS UTIL command OPR-GDE-104

ZAUTH command OPR-GDE-105

ZAVSN command OPR-GDE-107

ZBOLT command OPR-GDE-108

ZBROW ALTER command OPR-GDE-111

ZBROW CLASS command OPR-GDE-116

ZBROW COLLECTION command DBS-REF-195,
DBS-REF-214, OPR-GDE-123

ZBROW command

- delete a browse name CLS-UGR-1248

- get a PID for a browse name CLS-UGR-1299

ZBROW commands CON-STR-168, DBS-REF-148

ZBROW DISPLAY command DBS-REF-217,

- DBS-REF-218, OPR-GDE-131

ZBROW KEYPATH command OPR-GDE-138

ZBROW NAME command OPR-GDE-141

ZBROW PATH command OPR-GDE-145

ZBROW PROPERTY command OPR-GDE-150

ZBROW QUALIFY command OPR-GDE-154

ZBROW RECOUP command OPR-GDE-158

ZBUFC ALLOCATE DBS-REF-48, DBS-REF-51

ZBUFC ALLOCATE command OPR-GDE-164

ZBUFC ALLOCATE DISPLAY command OPR-GDE-167

ZBUFC ALLOCATE IMLEMNT DBS-REF-51, OPR-GDE-169
ZBUFC commands DBS-REF-51
ZBUFC ENABLE DBS-REF-49, DBS-REF-51
ZBUFC ENABLE command OPR-GDE-171
ZBUFC FILE DBS-REF-48, DBS-REF-51
ZBUFC FILE command OPR-GDE-172
ZBUFC MAP command OPR-GDE-174
ZBUFC MAP REPORT DBS-REF-49
ZBUFC PINNED DISCARD DBS-REF-49
ZBUFC PINNED DISCARD command OPR-GDE-175
ZBUFC PINNED DISPLAY DBS-REF-49
ZBUFC PINNED DISPLAY command OPR-GDE-177
ZBUFC SETCACHE DBS-REF-49, DBS-REF-52
ZBUFC SETCACHE command OPR-GDE-179
ZBUFC STATUS DBS-REF-43, DBS-REF-49
ZBUFC STATUS command OPR-GDE-182
ZBUFC THRESHLD DBS-REF-49
ZBUFC THRESHLD command OPR-GDE-184
ZCACH command OPR-GDE-186
ZCACHE command CLAWGR-103
ZCDCO command OPR-GDE-190
ZCFCH command OPR-GDE-194
ZCFLK ADD command OPR-GDE-196
ZCFLK DELETE command OPR-GDE-198
ZCFLK DISPLAY command OPR-GDE-199
ZCFLK INITIALIZE command OPR-GDE-201
ZCFLK MIGRATE command OPR-GDE-202
ZCHCH command OPR-GDE-204
ZCLAW ACTIVATE CLAWGR-30
ZCLAW ACTIVATE command OPR-GDE-207
ZCLAW ADD CLAWGR-29
ZCLAW ADD command OPR-GDE-209
ZCLAW command lock
 resetting OPR-GDE-217
ZCLAW DELETE CLAWGR-31
ZCLAW DELETE command OPR-GDE-211
ZCLAW DISPLAY CLAWGR-31
ZCLAW DISPLAY command OPR-GDE-213
ZCLAW INACTIVATE CLAWGR-30
ZCLAW INACTIVATE command OPR-GDE-215
ZCLAW RESET CLAWGR-33
ZCLAW RESET command OPR-GDE-217
ZCLAW STATUS command OPR-GDE-218
ZCLAW TRACE CLAWGR-32, CLAWGR-33
ZCLAW TRACE command OPR-GDE-220
ZCNIS command OPR-GDE-222
ZCNTM command OPR-GDE-224, PDV-PRM-48
ZCORO command OPR-GDE-228
ZCSON command OPR-GDE-230
ZCTKA MSP-PRM-29
ZCTKA ALTER command OPR-GDE-231
ZCTKA command OPR-GDE-26
ZCTKA DISPLAY command OPR-GDE-236
ZCYCL MSP-PRM-5
ZCYCL command OPR-GDE-239
ZDADD MSP-PRM-28
ZDADD command OPR-GDE-241
ZDBRI RESTART command OPR-GDE-243
ZDBRI START command OPR-GDE-245
ZDBRO ABORT command OPR-GDE-246
ZDBRO BYPASS command OPR-GDE-247
ZDBRO DISPLAY command OPR-GDE-249
ZDBRO IECB command OPR-GDE-252
ZDBRO INIT command OPR-GDE-253
ZDBRO OECB command OPR-GDE-255
ZDBRO RESET command OPR-GDE-256
ZDBRO RESTART command OPR-GDE-258
ZDBRO START command OPR-GDE-260
ZDBRO STATUS command OPR-GDE-262
ZDBRO SWITCH command OPR-GDE-263
ZDBSI RESTART command OPR-GDE-264
ZDBSI START command OPR-GDE-266
ZDBSO ABORT command OPR-GDE-267
ZDBSO BYPASS command OPR-GDE-268
ZDBSO DISPLAY command OPR-GDE-270
ZDBSO IECB command OPR-GDE-274
ZDBSO INIT command OPR-GDE-275
ZDBSO OECB command OPR-GDE-277
ZDBSO RESET command OPR-GDE-278
ZDBSO RESTART command OPR-GDE-280
ZDBSO START command OPR-GDE-282
ZDBSO STATUS command OPR-GDE-285
ZDBSO SWITCH command OPR-GDE-286
ZDEBUG command OPR-GDE-287
ZDCFT command OPR-GDE-291
ZDCLV command OPR-GDE-292
ZDCOR MSP-PRM-27
ZDCOR command OPR-GDE-293
ZDCRS command OPR-GDE-295
ZDDAT command OPR-GDE-298
ZDDCA MSP-PRM-27
ZDDCA command OPR-GDE-299
ZDDSI command OPR-GDE-301
ZDEAT command OPR-GDE-302
ZDEBB command OPR-GDE-303
ZDEBE command OPR-GDE-307
ZDECB command OPR-GDE-311
ZDECD command OPR-GDE-316
ZDFAI command OPR-GDE-318
ZDFCT command OPR-GDE-320
ZDFIL MSP-PRM-28
ZDFIL command DBS-REF-218, OPR-GDE-322
ZDFPC command DBS-REF-30, OPR-GDE-325
ZDGFL command OPR-GDE-328
ZDKAT command OPR-GDE-329
ZDLCK DELETE command OPR-GDE-330
ZDLCK DISPLAY command OPR-GDE-332
ZDLCT command OPR-GDE-335
ZDMAP command OPR-GDE-336
ZDMFS command OPR-GDE-342
ZDMOD command OPR-GDE-345
ZDPAT MSP-PRM-28
ZDPAT command OPR-GDE-346
ZDPGM MSP-PRM-28
ZDPGM command OPR-GDE-349
ZDPLT MSP-PRM-29
ZDPLT command OPR-GDE-352
ZDRCT command OPR-GDE-355
ZDREC MSP-PRM-28
ZDREC command OPR-GDE-357
ZDSER command OPR-GDE-12, OPR-GDE-360

ZDSID command OPR-GDE-363
ZDSMG DEFINE command OPR-GDE-364
ZDSMG DISPLAY command OPR-GDE-366
ZDSMG DM command OPR-GDE-368
ZDSMG INIT command OPR-GDE-370
ZDSMG MT command OPR-GDE-371
ZDSMG RELEASE command OPR-GDE-373
ZDSMG VTOC command OPR-GDE-374
ZDSVC command OPR-GDE-375
ZDSYS MSP-PRM-5
ZDSYS command OPR-GDE-377
ZDTAP command OPR-GDE-378
ZDTCP command OPR-GDE-382
ZDTIM command OPR-GDE-387
ZDTLB command OPR-GDE-389
ZDTOD command OPR-GDE-391
ZDUMP command OPR-GDE-11, OPR-GDE-393
ZDUMP SEL command MIG-GD2-219
ZDUPD command DBS-REF-27, OPR-GDE-394
ZDVSN command OPR-GDE-397
ZDWGT command OPR-GDE-398
ZECBL command OPR-GDE-401
zero setting GEN-MAC-18
ZFCAP ABORT command OPR-GDE-408
ZFCAP ALTER command OPR-GDE-410
ZFCAP CHANGE command OPR-GDE-411
ZFCAP CLEAR command OPR-GDE-413
ZFCAP command OPR-GDE-403, OPR-GDE-406
ZFCAP DISPLAY command OPR-GDE-415
ZFCAP IOTIME command OPR-GDE-417
ZFCAP LOG command OPR-GDE-418
ZFCAP MISC command OPR-GDE-419
ZFCAP PAUSE command OPR-GDE-421
ZFCAP RESTART command OPR-GDE-422
ZFCAP STATUS command OPR-GDE-424
ZFCAP TAPE command OPR-GDE-426
ZFDNT command OPR-GDE-428
ZFECB command OPR-GDE-429
ZFILE cat command OPR-GDE-438
ZFILE cd command OPR-GDE-441
ZFILE chmod command OPR-GDE-444
ZFILE chown command OPR-GDE-448
ZFILE command OPR-GDE-434
ZFILE cp command OPR-GDE-451
ZFILE dd command OPR-GDE-454
ZFILE echo command OPR-GDE-457
ZFILE export command OPR-GDE-460
ZFILE find command OPR-GDE-463
ZFILE grep command OPR-GDE-468
ZFILE head command OPR-GDE-473
ZFILE hex command OPR-GDE-476
ZFILE kill command CLAWGR-250, OPR-GDE-485
ZFILE ln command OPR-GDE-488
ZFILE ls command OPR-GDE-491
ZFILE mkdir command OPR-GDE-497
ZFILE mkfifo command OPR-GDE-500
ZFILE mknod command OPR-GDE-503
ZFILE mv command OPR-GDE-506
ZFILE ps command OPR-GDE-509
ZFILE pwd command OPR-GDE-516
ZFILE rm command CLAWGR-243, OPR-GDE-518
ZFILE rmdir command OPR-GDE-521
ZFILE sed command OPR-GDE-524
ZFILE tail command OPR-GDE-535
ZFILE tee command OPR-GDE-538
ZFILE touch command OPR-GDE-540
ZFILE tr command OPR-GDE-543
ZFILE unset command OPR-GDE-546
ZFILE xargs command OPR-GDE-548
ZFILT command OPR-GDE-552
ZFINT command OPR-GDE-554
ZFKPA command OPR-GDE-557
ZFMNT command OPR-GDE-558
ZFMSG command OPR-GDE-16, OPR-GDE-559
ZFMSG facility
 command characteristics
 change MIG-GD1-22
 define MIG-GD1-22
 overview MIG-GD1-22
ZFRST ABORT command OPR-GDE-563
ZFRST ALTER command OPR-GDE-565
ZFRST CAP command OPR-GDE-566
ZFRST CLEAR command OPR-GDE-571
ZFRST KPT command OPR-GDE-573
ZFRST LOG command OPR-GDE-574
ZFRST PAUSE command OPR-GDE-576
ZFRST RESTART command OPR-GDE-577
ZFRST STATUS command OPR-GDE-578
ZFRST TAPE command OPR-GDE-580
ZFRST XCP command OPR-GDE-582
ZGAFA command DBS-REF-31, OPR-GDE-584
ZGAFI command DBS-REF-31, OPR-GDE-586
ZGFSP command DBS-REF-28, DBS-REF-30,
 OPR-GDE-588, OPR-GDE-590, OPR-GDE-592
ZGFSP commands DBS-REF-21
ZGFSP DSP command OPR-GDE-594
ZGFSP FLB command OPR-GDE-597
ZGFSP OPT command OPR-GDE-599
ZGFSP RCY command OPR-GDE-601
ZGFSP RTO command OPR-GDE-602
ZGFSP SET command OPR-GDE-604
ZIDOT MSP-PRM-43
ZIDOT command OPR-GDE-12, OPR-GDE-606
ZIFIL MSP-PRM-28
ZIFIL command OPR-GDE-611
ZIMAG CLEAR command OPR-GDE-614
ZIMAG COPY command OPR-GDE-616
ZIMAG DEFINE command OPR-GDE-619
ZIMAG DISABLE command OPR-GDE-621
ZIMAG DISPLAY command OPR-GDE-622
ZIMAG ENABLE command OPR-GDE-626
ZIMAG KEYPT command OPR-GDE-627,
 OPR-GDE-629
ZIMAG MAKEPHYS command OPR-GDE-633
ZIMAG PRIMARY command OPR-GDE-635
ZIMAG UNREF command OPR-GDE-636
ZIMAG
 CLEAR MSP-PRM-2
 COPY MSP-PRM-2
 DEFINE MSP-PRM-2
 DISABLE MSP-PRM-2
 DISPLAY IMAGE MSP-PRM-2

ZIMAG (continued)

DISPLAY IPL MSP-PRM-2
DISPLAY PROCESSOR MSP-PRM-2
DISPLAY PROG MSP-PRM-2
ENABLE MSP-PRM-2
MAKEPHYS MSP-PRM-2
PRIMARY MSP-PRM-2
UNREF MSP-PRM-2
ZTPLD MSP-PRM-2
ZINET ADD command CLAWGR-99, CLAWGR-237,
CLAWGR-249, OPR-GDE-637
ZINET ALTER command CLAWGR-235,
CLAWGR-237, OPR-GDE-645
ZINET DELETE command CLAWGR-235,
OPR-GDE-652
ZINET DISPLAY command OPR-GDE-654
ZINET START command CLAWGR-99, CLAWGR-237,
CLAWGR-238, CLAWGR-250, OPR-GDE-658
ZINET STOP command CLAWGR-237, CLAWGR-238,
CLAWGR-250, OPR-GDE-659
ZINIP command OPR-GDE-661
ZIPDB command OPR-GDE-667
ZIPTR command OPR-GDE-668
ZIUMP command OPR-GDE-672
ZKPTR command OPR-GDE-673
ZLACL command OPR-GDE-676
ZLAEC command OPR-GDE-678
ZLAPR command OPR-GDE-679
ZLASL command OPR-GDE-680
ZLASN command OPR-GDE-681
ZLASP command OPR-GDE-683
ZLDCL command OPR-GDE-684
ZLDLE command OPR-GDE-685
ZLDLS command OPR-GDE-687
ZLDTI command OPR-GDE-689
ZLIDL command OPR-GDE-690
ZLKST command OPR-GDE-692
ZLKTF command OPR-GDE-694
ZLKTN command OPR-GDE-695
ZLREP command OPR-GDE-696
ZLRST command OPR-GDE-698
ZLSTA command OPR-GDE-699
ZLSTP command OPR-GDE-701
ZLTOF command OPR-GDE-703
ZLTON command OPR-GDE-704
ZLTRF command OPR-GDE-705
ZLTRL command OPR-GDE-706
ZLTRN command OPR-GDE-708
ZLTST command OPR-GDE-710
ZLVAL command OPR-GDE-712
ZMAIL command OPR-GDE-714
ZMAIL CREATEMAILBOX command OPR-GDE-720
ZMAIL DELETEACLMAILBOX command
OPR-GDE-722
ZMAIL DELETEMAILBOX command OPR-GDE-724
ZMAIL LISTACLMAILBOX command OPR-GDE-726
ZMAIL LISTMAILBOX command OPR-GDE-728
ZMAIL LISTQUOTA command OPR-GDE-730
ZMAIL LISTQUOTAROOT command OPR-GDE-733
ZMAIL PASSWORD command OPR-GDE-736
ZMAIL PATH command OPR-GDE-738
ZMAIL RENAMEMAILBOX command OPR-GDE-740
ZMAIL SETACLMAILBOX command OPR-GDE-742
ZMAIL SETQUOTA command OPR-GDE-745
ZMATP command OPR-GDE-748
ZMCFT ADD command OPR-GDE-754
ZMCFT CLEAR command OPR-GDE-755
ZMCFT DELETE command OPR-GDE-756
ZMCFT DISPLAY command OPR-GDE-757
ZMCFT ENABLE command OPR-GDE-759
ZMCFT REMOVE command OPR-GDE-760
ZMCFT RESETLOCK command OPR-GDE-762
ZMCHR command OPR-GDE-763
ZMCPY ABORT command OPR-GDE-764
ZMCPY ALL command OPR-GDE-765
ZMCPY DOWN DBS-REF-42, DBS-REF-46
ZMCPY DOWN command OPR-GDE-767
ZMCPY PAUSE command OPR-GDE-768
ZMCPY RESTART command OPR-GDE-769
ZMCPY SET command OPR-GDE-770
ZMCPY STATUS command OPR-GDE-772
ZMCPY UP DBS-REF-42, DBS-REF-47
ZMCPY UP command OPR-GDE-773
ZMEAS command OPR-GDE-774
ZMEAS data collection control SYS-MAC-24
ZMEAS END command OPR-GDE-777
ZMEAS Q command OPR-GDE-778
ZMEAS RESET command OPR-GDE-779
ZMIGR command OPR-GDE-780
ZMODE command OPR-GDE-784
ZMPIF command MIG-GD1-202, MIG-GD2-52
ZMPIF DEFINE DEVICE command OPR-GDE-786
ZMPIF DEFINE PATH command OPR-GDE-790
ZMPIF DELETE command OPR-GDE-793
ZMPIF DISPLAY command OPR-GDE-795
ZMPIF HDW command OPR-GDE-802
ZMPIF KPE command OPR-GDE-803
ZMPIF PDR command OPR-GDE-805
ZMPIF SET command OPR-GDE-807
ZMPIF START command OPR-GDE-813
ZMPIF STOP command OPR-GDE-815
ZMPIF TRACE command OPR-GDE-817
ZMQID ALTER command OPR-GDE-821
ZMQID DEFINE command OPR-GDE-825
ZMQID DELETE command OPR-GDE-829
ZMQID DISPLAY command OPR-GDE-830
ZMQIT command OPR-GDE-834
ZMQSC ALT CHL command OPR-GDE-837
ZMQSC ALT MQP command OPR-GDE-843
ZMQSC ALT PROCESS command OPR-GDE-846
ZMQSC ALT QA command OPR-GDE-848
ZMQSC ALT QL command OPR-GDE-850
ZMQSC ALT QR command OPR-GDE-854
ZMQSC CLEAR QL command OPR-GDE-856
ZMQSC DBREBUILD command OPR-GDE-857
ZMQSC DEF CHL command OPR-GDE-859
ZMQSC DEF MQP command OPR-GDE-864
ZMQSC DEF PROCESS command OPR-GDE-866
ZMQSC DEF QA command OPR-GDE-868
ZMQSC DEF QL command OPR-GDE-870
ZMQSC DEF QR command OPR-GDE-875
ZMQSC DEL command OPR-GDE-878

ZMQSC DISPLAY command OPR-GDE-881
ZMQSC MIGRATE command OPR-GDE-898
ZMQSC MOVEMSGS command OPR-GDE-900
ZMQSC RESET command OPR-GDE-902
ZMQSC RESOLVE command OPR-GDE-903
ZMQSC START command OPR-GDE-905
ZMQSC STOP command OPR-GDE-907
ZMQSC SWQ command OPR-GDE-909
ZMQSC TRACE command OPR-GDE-911
ZNACT command OPR-GDE-916
ZNALS command OPR-GDE-917
ZNALT command OPR-GDE-920
ZNAPN command OPR-GDE-921
ZNCCB command OPR-GDE-923
ZNCNS CHANGE SNA-PRM-99
ZNCNS CHANGE command OPR-GDE-932
ZNCNS command AR-USG-15, AR-USG-16,
AR-USG-21, AR-USG-26
ZNCNS INITIALIZE command OPR-GDE-936
ZNCNS RESET SNA-PRM-99
ZNCNS RESET command OPR-GDE-940
ZNCVT command OPR-GDE-943
ZNDLU command OPR-GDE-946
ZNDYN ADD command OPR-GDE-953
ZNDYN ADD command
 considerations SNA-PRM-198
 defining SNA resources SNA-PRM-198
 IODEV macro SNA-PRM-198
 restrictions SNA-PRM-198
ZNDYN CHANGE command OPR-GDE-956,
SNA-PRM-199
ZNDYN DISPLAY command OPR-GDE-958,
SNA-PRM-183
ZNDYN RECYCLE command OPR-GDE-962
ZNERR command OPR-GDE-963
ZNETW ACT command OPR-GDE-964
ZNETW command AR-USG-26, SNA-PRM-201
ZNETW command
 network command status table relationship
 PDV-PRM-119
ZNETW DISPLAY command OPR-GDE-968
ZNETW INACT SNA-PRM-99
ZNETW INACT command OPR-GDE-969
ZNETW MOUNT command OPR-GDE-971
ZNETW ROUTE command OPR-GDE-972
ZNKEY command ACF-GDE-3, ACF-GDE-4,
AR-USG-16, OPR-GDE-973, SNA-PRM-201
ZNLM command OPR-GDE-983
ZNMOM command OPR-GDE-985
ZNNCB command OPR-GDE-987, SNA-PRM-187
ZNNCB DISPLAY command OPR-GDE-989,
SNA-PRM-187
ZNNCB RECON command OPR-GDE-992,
SNA-PRM-188
ZNNCB REORG command OPR-GDE-995,
SNA-PRM-190
ZNNCS command OPR-GDE-997
ZNOPL BUILD command OPR-GDE-999,
SNA-PRM-195
ZNOPL FALLBACK command OPR-GDE-1000,
SNA-PRM-197
ZNOPL LOAD command OPR-GDE-1002,
SNA-PRM-195, SNA-PRM-196
ZNOPL LOAD command
 loading data records ACF-GDE-31
 PILOTID parameter ACF-GDE-30, ACF-GDE-31
ZNOPL MERGE command OPR-GDE-1004,
SNA-PRM-195, SNA-PRM-196, SNA-PRM-197
ZNOPL STATUS command OPR-GDE-1007,
SNA-PRM-195, SNA-PRM-196, SNA-PRM-197,
SNA-PRM-198
ZNOPL STATUS command
 specifying description for ACF-GDE-29
ZNOPL UPDATE command OPR-GDE-1011,
SNA-PRM-195, SNA-PRM-196
ZNPUI command OPR-GDE-1012
ZNPOL command SNA-PRM-201
ZNPOL START command OPR-GDE-1019
ZNPOL STOP command OPR-GDE-1020
ZNPRG command OPR-GDE-1021
ZNRPT command OPR-GDE-1022
ZNRTP DISPLAY command OPR-GDE-1023,
SNA-PRM-134, SNA-PRM-155
ZNRTP HPR command OPR-GDE-1029
ZNRTP INACT command OPR-GDE-1031,
SNA-PRM-134
ZNRTP INITIALIZE command OPR-GDE-1032
ZNRTP INITITALIZE command SNA-PRM-155
ZNRTP ROUTE command OPR-GDE-1033,
SNA-PRM-134
ZNRTP SUMMARY command OPR-GDE-1035,
SNA-PRM-134, SNA-PRM-157
ZNRTP SWITCH command OPR-GDE-1037,
SNA-PRM-141
ZNRVT command OPR-GDE-1038
ZNRVT INITIALIZE command OPR-GDE-1042
ZNSCB command OPR-GDE-1043
ZNSCB INITIALIZE command OPR-GDE-1045
ZNSID command OPR-GDE-1046, SNA-PRM-91
ZNSPA command OPR-GDE-1051
ZNTRP command OPR-GDE-1052
ZOLDR ACCEPT command OPR-GDE-1058
ZOLDR ACTIVATE command OPR-GDE-1060
ZOLDR ACTIVATE command
 activating loadsets with E-type loader PDV-PRM-136
 activating loadsets
 for ISO-C programs PDV-PRM-136
 controlling ECB access
 SEL parameter PDV-PRM-136
 ISO-C program
 activating loadsets PDV-PRM-136
ZOLDR ALTER command OPR-GDE-1062
ZOLDR ALTER PROGCHAR command
 OPR-GDE-1064
ZOLDR CLEAR command OPR-GDE-1067
ZOLDR DEACTIVATE command OPR-GDE-1069
ZOLDR DELETE command OPR-GDE-1071
ZOLDR DISPLAY command OPR-GDE-1072
ZOLDR EXCLUDE command OPR-GDE-1076
ZOLDR LOAD command DBS-REF-110,
OPR-GDE-1078
ZOLDR RECLAIM command OPR-GDE-1080

ZOLDR REINCLUDE command OPR-GDE-1081
 ZOODB CHANGE command OPR-GDE-1083
 ZOODB commands CON-STR-167
 ZOODB commands
 initializing DBS-REF-148
 introduction to DBS-REF-147
 ZOODB DEFINE command OPR-GDE-1086
 ZOODB DELETE command OPR-GDE-1089
 ZOODB DISPLAY command OPR-GDE-1091
 ZOODB INIT command OPR-GDE-1097
 ZOODB MIGRATE command OPR-GDE-1098
 ZOODB RECREATE command OPR-GDE-1100
 ZOODB SET command OPR-GDE-1102
 ZOSAE command CLAWGR-63, CLAWGR-64,
 CLAWGR-65, CLAWGR-67, CLAWGR-68,
 OPR-GDE-1104
 ZPAGE command OPR-GDE-1111
 ZPATH command OPR-GDE-1113
 ZPLMT command OPR-GDE-1115
 ZPMIG command DBS-REF-31, OPR-GDE-1116
 ZPOOL DISPLAY command OPR-GDE-1118
 ZPOOL GENERATION command DBS-REF-25,
 OPR-GDE-1121
 ZPOOL INIT command OPR-GDE-1124
 ZPOOL RPFMS command OPR-GDE-1127
 ZPROT MSP-PRM-35
 ZPROT command DBS-REF-110, OPR-GDE-1128
 ZPROT DSP command OPR-GDE-1130
 ZPSMS command OPR-GDE-1132
 ZPTAP command OPR-GDE-1135
 ZPTCH MSP-PRM-29
 ZPTCH command OPR-GDE-1136
 ZPUMP command OPR-GDE-1140
 ZRBKD command DBS-REF-110, OPR-GDE-1141
 ZRCBI command OPR-GDE-1145
 ZRCRS command OPR-GDE-1147
 ZRDIR CAPTURE command DBS-REF-27,
 OPR-GDE-1148
 ZRDIR START RESTORE command DBS-REF-27,
 OPR-GDE-1149
 ZRECP ABORT command DBS-REF-114,
 OPR-GDE-1150
 ZRECP ADD command DBS-REF-108, DBS-REF-114,
 OPR-GDE-1151
 ZRECP CONTINUE command OPR-GDE-1153
 ZRECP DEL command DBS-REF-108, OPR-GDE-1155
 ZRECP DISPLAY command DBS-REF-113,
 OPR-GDE-1156
 ZRECP DUMP command DBS-REF-109,
 DBS-REF-115, OPR-GDE-1162
 ZRECP ELOG command DBS-REF-110,
 OPR-GDE-1163
 ZRECP EXIT command OPR-GDE-1164
 ZRECP FLUSH command OPR-GDE-1166
 ZRECP IGNORE command DBS-REF-108,
 DBS-REF-113, OPR-GDE-1167
 ZRECP LEVEL command DBS-REF-110,
 OPR-GDE-1169
 ZRECP NOREBUILD command DBS-REF-108,
 DBS-REF-114, OPR-GDE-1171
 ZRECP OFLMR command OPR-GDE-1174
 ZRECP ONEL command DBS-REF-111,
 OPR-GDE-1175
 ZRECP PROCEED command DBS-REF-108,
 DBS-REF-114, OPR-GDE-1179
 ZRECP PROFILE command DBS-REF-110,
 DBS-REF-111, OPR-GDE-1183
 ZRECP PROTECT command DBS-REF-108,
 DBS-REF-113, OPR-GDE-1188
 ZRECP REBUILD command DBS-REF-108,
 DBS-REF-114, OPR-GDE-1190
 ZRECP RECALL command DBS-REF-111,
 OPR-GDE-1191
 ZRECP RERUN command OPR-GDE-1194
 ZRECP RESTART command DBS-REF-111,
 DBS-REF-114, OPR-GDE-1195
 ZRECP RESUME command DBS-REF-108,
 DBS-REF-113, OPR-GDE-1197
 ZRECP RETRY command OPR-GDE-1198
 ZRECP SEL command DBS-REF-111, OPR-GDE-1199
 ZRECP SETUP command OPR-GDE-1201
 ZRECP SKIP command DBS-REF-114,
 OPR-GDE-1203
 ZRECP START command DBS-REF-110,
 OPR-GDE-1204
 ZRECP STATUS command DBS-REF-111,
 OPR-GDE-1206
 ZRECP STOP command OPR-GDE-1209
 ZRECP VERIFY command OPR-GDE-1211
 ZRFPC command OPR-GDE-1213
 ZRHLD DELETE command OPR-GDE-1214
 ZRHLD DISPLAY command OPR-GDE-1216
 ZRIPL MSP-PRM-1
 ZRIPL command OPR-GDE-1219, SYS-GEN-20
 ZRLMT command OPR-GDE-1220
 ZROUT command AR-USG-26, SNA-PRM-201
 ZROUT START command OPR-GDE-1221
 ZROUT STOP command OPR-GDE-1222
 ZRPDU ABORT command OPR-GDE-1223
 ZRPDU CREATE command DBS-REF-27,
 OPR-GDE-1224
 ZRPDU DISP command OPR-GDE-1227
 ZRPDU OFLMR command OPR-GDE-1228
 ZRPDU PURGE command OPR-GDE-1229
 ZRPDU STATUS command OPR-GDE-1230
 ZRPGM command OPR-GDE-1231
 ZRREC BACKUP command OPR-GDE-1233
 ZRREC RESET command OPR-GDE-1234
 ZRREC SWITCH command OPR-GDE-1235
 ZRSTT MSP-PRM-6
 ZRSTT command OPR-GDE-1236
 ZRTCU command OPR-GDE-1237
 ZRTDM DISPLAY DBS-REF-48
 ZRTDM DISPLAY command OPR-GDE-1239,
 OPR-GDE-1240
 ZRTDM MODIFY DBS-REF-48
 ZRTDM MODIFY command OPR-GDE-1242,
 OPR-GDE-1244
 ZRTDM RESET command OPR-GDE-1248
 ZSDEA command OPR-GDE-1249
 ZSELD command OPR-GDE-1251, PDV-PRM-53
 ZSIPC ALTER command OPR-GDE-1253

ZSIPC DISPLAY command OPR-GDE-1256
ZSIPC
 ALTER MSP-PRM-37
 DISPLAY MSP-PRM-37
ZSLDR MSP-PRM-35
ZSLDR command OPR-GDE-1258
ZSNDA command OPR-GDE-1259
ZSNDU command OPR-GDE-1261, SNA-PRM-250
ZSNMP command CLAWGR-98, OPR-GDE-1263
ZSOCK command OPR-GDE-1266
ZSONS ALTER ERROR COUNTS command
 OPR-GDE-1270
ZSONS ALTER ERROR LIMITS command
 OPR-GDE-1273
ZSONS ALTER HALT command OPR-GDE-1275
ZSONS ALTER SCAN command OPR-GDE-1277
ZSONS ALTER SCP command OPR-GDE-1279
ZSONS DISPLAY ERROR COUNTS command
 OPR-GDE-1281
ZSONS DISPLAY ERROR LIMITS command
 OPR-GDE-1284
ZSONS DISPLAY HALT command OPR-GDE-1285
ZSONS DISPLAY SCAN command OPR-GDE-1286
ZSONS DISPLAY SCP command OPR-GDE-1287
ZSPER command OPR-GDE-12, OPR-GDE-1288
ZSQLD command OPR-GDE-979, OPR-GDE-1290
ZSQLD command for TPFAR AR-USG-13, AR-USG-15,
 AR-USG-17, AR-USG-18, AR-USG-21
ZSQLD command for TPFAR
 Ccsid parameter AR-USG-16
 Lu parameter AR-USG-16
 Maxhct parameter AR-USG-16
 Rdb parameter AR-USG-16
ZSSLD command OPR-GDE-1298
ZSTAT MSP-PRM-22
ZSTAT command OPR-GDE-1299
ZSTAT U SYS-GEN-49
ZSTIM A command OPR-GDE-1301
ZSTIM C command OPR-GDE-1305
ZSTIM D command OPR-GDE-1307
ZSTIM I command OPR-GDE-1309
ZSTOP command OPR-GDE-1310, PDV-PRM-48
ZSTRC MSP-PRM-23
ZSTRC command OPR-GDE-12, OPR-GDE-1311
ZSTRC command
 setting trace options for C function trace
 PDV-PRM-134
 turning on CDEBUG parameter PDV-PRM-133
ZSTTD command OPR-GDE-1315
ZSTTD command for TPFAR AR-USG-16, AR-USG-98
ZSTVS CLOCK command OPR-GDE-1319
ZSTVS DSPLY command OPR-GDE-1321
ZSTVS PAUSE command OPR-GDE-1322
ZSTVS START command OPR-GDE-1323
ZSTVS STOPT command OPR-GDE-1325
ZSTVS TEST command OPR-GDE-1326
ZSYSG MSP-PRM-29
ZSYSG ALTER command OPR-GDE-1328
ZSYSG DISPLAY command OPR-GDE-1330
ZSYSL MSP-PRM-29
ZSYSL command OPR-GDE-1332
ZTDEV command OPR-GDE-1334
ZTERM command OPR-GDE-1338
ZTEST command OPR-GDE-1339
ZTGRP command OPR-GDE-1340
ZTHLN command PDV-PRM-64
ZTHLT command OPR-GDE-1342, PDV-PRM-53
ZTHLT command
 for logging function PDV-PRM-66
ZTICL command OPR-GDE-1344
ZTINT command OPR-GDE-1345
ZTLBL command OPR-GDE-1347
ZTLMR command OPR-GDE-1351
ZTMNT command OPR-GDE-1353
ZTMSL MSP-PRM-29
ZTMSL command OPR-GDE-1356
ZTOCU command OPR-GDE-1359
ZTOFF command OPR-GDE-1360
ZTPLD command OPR-GDE-1362
ZTPLF FILL command OPR-GDE-1364, SYS-GEN-55
ZTPLF LOAD command OPR-GDE-1366
ZTPLF MOVE command OPR-GDE-1367
ZTPLF QUERY command OPR-GDE-1368
ZTPLF RELEASE command OPR-GDE-1371
ZTPLF RESERVE command OPR-GDE-1372
ZTPLF UNLOAD command OPR-GDE-1373
ZTPSW command OPR-GDE-1375
ZTRAC command OPR-GDE-1376, PDV-PRM-48,
 PDV-PRM-49, PDV-PRM-50
ZTRCC command
 macro table PDV-PRM-62
ZTRCE command OPR-GDE-1387, PDV-PRM-53
ZTRCE command
 for logging function PDV-PRM-66
 for selective file trace PDV-PRM-66
ZTRMT command OPR-GDE-1389
ZTRTE command CLAWGR-99, OPR-GDE-1390
ZTSTB command OPR-GDE-1394
ZTTCP ACTIVATE command CLAWGR-65,
 CLAWGR-67, OPR-GDE-1396
ZTTCP CHANGE command CLAWGR-62,
 CLAWGR-63, OPR-GDE-1398
ZTTCP CLEAR command OPR-GDE-1400
ZTTCP DEFINE command CLAWGR-62, CLAWGR-63,
 CLAWGR-65, OPR-GDE-1402
ZTTCP DELETE command CLAWGR-62,
 CLAWGR-66, OPR-GDE-1404
ZTTCP DISPLAY command CLAWGR-67,
 OPR-GDE-1406
ZTTCP INACTIVATE command CLAWGR-65,
 CLAWGR-67, OPR-GDE-1411
ZTTCP TRACE command OPR-GDE-1413
ZTVAR command OPR-GDE-1415
ZTWTM command OPR-GDE-1417
ZVFAC command OPR-GDE-1418
ZVFAC DEFINE command OPR-GDE-1419
ZVFAC DISPLAY command OPR-GDE-1421
ZVFAC FLUSH command OPR-GDE-1423
ZVFAC INDICATE command OPR-GDE-1424
ZVFAC LOCATE command OPR-GDE-1426
ZVFAC PURGE command OPR-GDE-1429

ZVIPA command CLAWGR-65, CLAWGR-68,
CLAWGR-69, CLAWGR-70, CLAWGR-71,
OPR-GDE-1430

Zxxxx commands SNA-PRM-47, SNA-PRM-49



File Number: S370/30XX-20
Program Number: 5748-T14



Printed in the United States of America
on recycled paper containing 10%
recovered post-consumer fiber.

GH31-0146-16

