

CICS Online Transmission Time Optimizer



Message Guide

Version 1 Release 2

CICS Online Transmission Time Optimizer



Message Guide

Version 1 Release 2

Note

Before using this information and the product it supports, be sure to read the general information under Appendix B, "Notices," on page 53.

This edition applies to Version 1 Release 2 of CICS Online Transmission Time Optimizer, program number 5655-I05, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions.

© **Copyright International Business Machines Corporation 1991, 2011.**

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

© **Software Engineering GmbH, 1987, 2011.**

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

TABLE OF CONTENTS

PREFACE	III
Who Should Use This Book	iii
How to Use This Book.....	iii
Contacting IBM support.....	iii
How to Send Your Comments	iv
Where to get More Information	iv
CHAPTER 1: CICS MENU AND PANEL MESSAGES	1
CHAPTER 2: COMMAND EXECUTION MESSAGES	17
CHAPTER 3: CONSOLE MESSAGES	35
CHAPTER 4: MAINTENANCE AND CONVERSION UTILITY MESSAGES	45
APPENDIX A: TECHNICAL SUPPORT CHECKLIST	53
APPENDIX B: NOTICES	55
INDEX	57

This page intentionally left blank.

PREFACE

CICS® Online Transmission Time Optimizer (CICS OTTO) is a tool for the IBM® Customer Information Control System (CICS). CICS OTTO improves user productivity and 3270 network utilization.

Who Should Use This Book

This book is intended for use by the system programmer responsible for the operation of the TP (TeleProcessing) system. It provides details regarding the messages that might be issued by CICS OTTO.

How to Use This Book

This book contains the following chapters.

- "Chapter 1: CICS Menu and Panel Messages" on page 1 describes the messages that may appear on the CICS menus and panels of transaction OTTO.
- "Chapter 2: Command Execution Messages" on page 17 describes the messages that appear after each command execution (online or batch).
- "Chapter 3: Console Messages" on page 35 describes the messages that may appear on the z/OS® console and in the CICS job log.
- "Chapter 4: Maintenance and Conversion Utility Messages" on page 45 describes the messages that may appear if you are running the Maintenance or Conversion Utility.
- "Appendix A: Technical Support Checklist" on page 53 provides a checklist that should be completed in the event you need technical support with your installation.
- "Appendix B: Notices" on page 55 contains legal notices and trademarks.
- The comprehensive "Index" on page 57 allows you to find the page number of the message description by looking up the message ID.

Contacting IBM support

Information on IBM support policy can be found on the Web site. Follow the Support link in the left-hand column at ibm.com/software/ts/cics/.

Where to get More Information

For more general information and technical information, the following books complete the library for CICS OTTO:

- *Program Directory* explains how to install CICS OTTO.
- *CICS Online Transmission Time Optimizer User's Guide* explains the optimization features, image pool considerations, statistics, troubleshooting, batch utilities, and tuning considerations. This book also illustrates how to use the dialog panels of CICS OTTO to control optimization.
- *CICS Online Transmission Time Optimizer Compatibility Mode Guide* explains how to use CICS OTTO's native commands to control the optimization. The native commands are an alternative to using the online dialog documented in the *CICS Online Transmission Time Optimizer User's Guide*.

CHAPTER 1: CICS MENU AND PANEL MESSAGES

All actions taken on the menus or panels are confirmed by an appropriate message on line 3 (message area). These messages have the following format:

ABLnnnnx message text

Where: *nnnn* is a unique message number from 0000 to 9999

x is the message type:
I . . . Informational
W . . . Warning
E . . . Error

message text is a short description of the message.

All error messages (E type) will position the cursor onto the defective input field of the screen whenever appropriate.

The messages are numbered sequentially. However, you will find gaps in the number sequence. The following pages list the possible messages that may be issued.

ABL0099E IMAGE HAS BEEN DELETED - UNABLE TO OPTIMIZE

Reason: Internal error
Action: Contact IBM support

ABL1001E COMMAND ALREADY IN PROGRESS; TRY AGAIN - LU: terminal-name

Reason: Only one manipulating action can be serviced at any given point of time. The name of the terminal that issued the command currently in progress is displayed. If the problem persists, probably a VTAM® error occurred.
Action: Try your action again. If the problem persists, the situation may be reset by switching into the Compatibility Mode (=14) and typing \$\$ in the first two bytes of CICS OTTO's Compatibility Mode command line. This will lead to a ABL5102E message, but all the following commands in the Compatibility Mode or manipulations on any panel will be serviced normally.

ABL1003E STORAGE FOR xxxx NOT GOT

Reason: xxxx may be PMCB or DSA. There is no more main storage is available for EXEC CICS GETMAIN's.
Action: CICS/ESA: Increase CICS DSA.

ABL1005E CANNOT START TRANSACTION BECAUSE OTTO NOT SUCCESSFULLY STARTED

Reason: Self explanatory.

Action: For detailed information, look at CICS OTTO's console messages that are displayed at the startup time. If CICS OTTO was started successfully under z/OS, one reason for the error might be that OTTOEXIT was loaded twice due to the wrong DFHPLTPI definition - missing DFHLELIM.

ABL1006E CANNOT PROCESS REQUEST, OTTO NOT ACTIVE

Reason: An action that would cause a modification inside CICS OTTO was performed in a panel, but CICS OTTO is no longer active.

Action: Check if CICS OTTO was stopped from another terminal (see CICS Log output) or if the module OTTOEXIT was "DISABLED".

**ABL1008E ERROR LOAD *pgm/cb...* FROM FILE - loadererror programname
possible load errors:**

DSIDERR
ILLOGIC
INVREQ
IOERR
NOTAUTH
NOTFND
NOTOPEN
GETMAIN

Reason: An error has occurred during a load from CICS OTTO's control file.
pgm stands for PGM by loading from OTTOMOD file.
cb stands for a Control Block in case of a load from OTTOCMD.
loadererror describes the CICS ERROR CODE.
programname indicates the program, which should be loaded.

Action: Please check if there are any console messages for VSAM errors and consult the "CICS Messages and Codes" for detailed information about the CICS ERROR CODE for EXEC CICS READ.

ABL1009E ERROR RECEIVING MAP *nn* - LENGERR

Reason: An error occurred during an "EXEC CICS RECEIVE MAP('OTTOMnn)".

Action: Press <CLEAR> followed by <ENTER>, then try again.

ABL1010E WRONG RETURNCODE *retcode* FROM PGM *pgm*

Reason: Internal transaction error/programming error.

Action: Please contact IBM Support.

ABL1011E ERROR SENDING MAP *nn*

Reason: An error occurred during an "EXEC CICS SEND MAP('OTTOMnn)".

Action: Press <CLEAR> followed by <ENTER>, then try again.

ABL1012E ERROR DURING UPDATE TS RECORD

Reason: An error occurred during an "EXEC CICS WRITEQ TS ... REWRITE".

Action: LOGOFF from CICS or set the terminal "OUT OF SERVICE" and "IN SERVICE". LOGON to CICS again and call the OTTO transaction once more. If the error persists, use another terminal to delete the TS-queue record with the key OTTO ttt , where ttt represents the 4 character CICS terminal-ID obtained from the CEMT transaction. The TS-queue is used to keep information about CICS OTTO's transaction progress.

ABL1013E ERROR DURING WRITE TS RECORD

Reason: An error occurred during an "EXEC CICS WRITEQ TS".

Action: LOGOFF from CICS or set the terminal "OUT OF SERVICE" and "IN SERVICE". LOGON to CICS again and call CICS OTTO's transaction once more. If the error persists, use another terminal to delete the TS-queue record with the key OTTO ttt , where ttt represents the 4 character CICS terminal-ID obtained from the CEMT transaction. The TS-queue is used to keep information about CICS OTTO's transaction progress.

*** * * END OF O T T O TRANSACTION * * ***

Reason: The OTTO transaction is terminated by an option '=X' or by pressing <F3> on the PRIMARY OPTION MENU.

Action: None

ABL1101E INVALID INPUT KEY

Reason: A key other than ENTER or PF3 was pressed.

Action: Use a correct input key as displayed.

ABL1201E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL1202E INVALID OPTION

Reason: Self explanatory.

Action: Select a valid option as displayed.

ABL1203E ENTER OPTION

Reason: There was no option entered.

Action: Enter a valid option as displayed.

ABL1301E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL1302E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1303E INVALID STATUS ASSIGNED

Reason: Self explanatory.

Action: Use a valid status as displayed for Start Fully, Start Selected or Stop the optimization.

ABL1501E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as indicated on the panel.

ABL1502E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1503E INVALID OR MISSING DATA

Reason: Self explanatory.

Action: Correct your input.

ABL1601E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL1602E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1603E INVALID INPUT DATA (ON/OFF)

Reason: Self explanatory.

Action: Correct your input.

ABL1604E INVALID INPUT DATA

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL1701E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL1702E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1703E INVALID INPUT DATA (SCS/3270)

Reason: Self explanatory.

Action: Correct your input.

ABL1704E INVALID INPUT DATA (ON/OFF)

Reason: Self explanatory.

Action: Correct your input.

ABL1705E INVALID INPUT DATA

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL1801E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL1802E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1803E NO TERMINAL SPECIFIED (MUST BE FULLY QUALIFIED OR GENERIC NAME)

Reason: For the option entered, a terminal name must be specified. Generic notation is allowed.

Action: Correct your input.

ABL1804E ENTER OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1901E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL1902E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL1903E NO ENTRIES IN THIS LIST

Reason: There are no LUs (modules) for the selected component / group in CICS OTTO's optimization process.

Action: None

ABL1904E NO ENTRIES FOUND

Reason: There are no active LUs (modules) / no LUs (modules) with specific settings in CICS OTTO's optimization process.

Action: None

ABL1905E NO ENTRIES FOUND FOR THIS CRITERIA

Reason: For the specified criteria, no LU (module) exists in CICS OTTO's optimization process.

Action: None

ABL1906E INVALID SELECTION(S)

Reason: Self explanatory.

Action: Use only 'S' to select LU(s) / module(s).

ABL1907E SORRY, INTERNAL ERROR, BAD FLAG

Reason: Internal error.

Action: Contact IBM Support.

ABL1909I CONFIRM DELETION WITH PF9 (NOTE: THE WHOLE LIST GETS DELETED)

Reason: Previously, PF9 was pressed to delete all LU(s)/module(s) with special settings.

Action: Press again PF9 to confirm the delete.

ABL1910E INVALID INPUT

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL2001E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2002E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2003E MISSING OR INVALID MODULE NAME

Reason: For the option entered, a module name must be specified. Generic notation is allowed.

Action: Correct your input.

ABL2004E ENTER OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2101E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2102E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2103E INVALID INPUT DATA (ON/OFF)

Reason: Self explanatory.

Action: Correct your input.

ABL2104E INVALID LU NAME ENTERED

Reason: A correct terminal (LU) name must be specified

Action: Correct your input. Generic notation is allowed.

ABL2105E INTERNAL ERROR, NO OMDLU ADDRESS

Reason: Internal error.

Action: Contact IBM Support.

ABL2106E INVALID INPUT DATA

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL2201E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2202E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2204E INVALID INPUT DATA (ON/OFF)

Reason: Self explanatory.

Action: Correct your input.

ABL2205E INVALID INPUT DATA

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL2301E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2302E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2303E INVALID INPUT DATA (SCS/3270)

Reason: Self explanatory.

Action: Correct your input.

ABL2304E INVALID LU NAME ENTERED

Reason: A correct terminal (LU) name must be specified.

Action: Correct your input. Generic notation is allowed for terminal names.

ABL2305E INVALID INPUT

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL2401E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2402E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2403E INVALID INPUT DATA (ON/OFF)

Reason: Self explanatory.

Action: Correct your input.

ABL2404E INVALID LU / MODNAME ENTERED

Reason: An invalid LU / module name was entered.

Action: Correct your input. Generic notation is allowed.

ABL2405E INVALID INPUT DATA (SCS/3270)

Reason: Self explanatory.

Action: Correct your input.

ABL2406I CONFIRM DELETION WITH PF9

Reason: Previously, PF9 was pressed to delete this LU/module with specific settings.

Action: Press PF9 again to confirm deletion.

ABL2407E INVALID INPUT DATA

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL2501E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2502E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2503E INVALID INPUT DATA (YES/NO)

Reason: Self explanatory.

Action: Correct your input.

ABL2505E INVALID INPUT

Reason: An invalid LU / module name was entered.

Action: Correct your input. Generic notation is allowed.

ABL2506E INTERNAL LOGIC ERROR

Reason: Internal error.

Action: Contact IBM Support.

ABL2601E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2602E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2603E MISSING OR INVALID SELECTION

Reason: Self explanatory.

Action: Correct selection as displayed.

ABL2604E MISSING OR INVALID TERMINAL/MODULE NAME

Reason: Self explanatory.

Action: Correct terminal/module name(s).

ABL2605E: ENTER OPTION
Reason: Self explanatory.
Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2606E TOO MANY NAMES SPECIFIED
Reason: The internally generated TRACE command is longer than 80 bytes.
Action: Specify fewer LU/module names.

ABL2607E INVALID INPUT
Reason: Self explanatory.
Action: Correct your input.

ABL2701E INVALID INPUT KEY
Reason: Self explanatory.
Action: Use a correct input key as displayed.

ABL2702E INVALID OPTION
Reason: Self explanatory.
Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2703E MISSING OR INVALID INPUT FIELD
Reason: Self explanatory.
Action: Correct your input as displayed.

ABL2704E ERROR DURING OTTOINIT - GETMAIN
Reason: Not enough main storage available to load all command modules permanently.
Action: Increase region size for your next startup of CICS.

ABL2705E ERROR DURING OTTOINIT - DELETE
Reason: An error occurred when deleting the permanently loaded command modules.
Action: This message can be ignored. Because there may be an internal error, check for any console messages and consult IBM Support.

ABL2706E ERROR DURING UPDATE PERM. OMCB
Reason: An error occurred during VSAM update of the OTTOCMD file.
Action: Check for any additional console messages and consult IBM Support.

ABL2707E ERROR: INVALID PERM OMCB ADDRESS FIRST

Reason: Internal error.

Action: Contact IBM Support.

ABL2708E ERROR: INVALID PERM OMCB ADDRESS SECOND

Reason: Internal error.

Action: Contact IBM Support.

ABL2709I OTTO COMMAND MODULES LOADED

Reason: CICS OTTO command modules are now permanently loaded in main storage.

Action: None

ABL2710I OTTO COMMAND MODULES DELETED

Reason: CICS OTTO command modules are now deleted from main storage.

Action: None

ABL2801E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2802E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2803E ENTER OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2804E INVALID LU/MODULE NAME

Reason: An invalid LU / module name was entered.

Action: Correct your input. Generic notation is allowed.

ABL2901E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL2902E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL2903E INVALID OR MISSING DATA

Reason: Self explanatory.

Action: Correct your input.

ABL2904E SIZE IN KB TOO HIGH (MAX=4296)

Reason: Self explanatory.

Action: Correct pool size.

ABL3001E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL3002E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL3003E MISSING OR INVALID LU/MOD NAME

Reason: Self explanatory.

Action: Enter a valid LU/module name. Generic notation is allowed.

ABL3004E ENTER OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL3005E INVALID DIRECTION (I/O/A)

Reason: Self explanatory.

Action: Enter either **I**, **O**, or **A** to view inbound, outbound, or all error statistics.

ABL3101E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL3102E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL3201E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL3202E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL3203E INVALID INPUT

Reason: The input data contains embedded blanks.

Action: Correct your input.

ABL3302E INVALID INPUT KEY (ONLY <ENTER>, <F1>, <F3> or <CLEAR> ALLOWED)

Reason: Only the displayed keys are accepted in CICS OTTO's Compatibility Mode.

Action: Use
- <ENTER> to refresh the screen or to process a command.
- <F1> to display CICS OTTO's Compatibility Mode help.
- <F3> or <CLEAR> to return.

ABL3303E MC00 MAP AREA TOO SMALL

Reason: Internal error.

Action: Contact IBM Support.

ABL3400E Int. error OTTOMA23+xxxx EIBFN=xxxx EIBRESP=xxxx EIBRESP2=xxxx

Reason: An EXEC CICS request unexpectedly failed.

Action: Contact IBM support.

ABL3401E Selection not unique, please select one item only

Reason: Self explanatory.

Action: Select only one item.

ABL3402E Invalid selection, only "S" or "s" allowed
Reason: Self explanatory.
Action: Correct your input.

ABL3403E PF Key not supported
Reason: Self explanatory.
Action: Use a correct input key as displayed.

ABL3404E Nothing to display, empty list
Reason: There are no instorage trace entries for the selected item.
Action: No action necessary.

ABL3405E Option field value invalid
Reason: Self explanatory.
Action: Use a valid option or '=xx' to go to another panel.

ABL3406E Offset value invalid
Reason: Input value must be hexadecimal.
Action: Correct your input.

ABL3407E Offset value out of range
Reason: The entered Offset value exceeds the length of the data stream.
Action: Correct your input.

ABL3408E Invalid entry type, only "BEFORE" or "AFTER" allowed
Reason: Self explanatory.
Action: Correct your input

ABL3409E Optimized buffer (AFTER) not available
Reason: For an inbound data stream, or a data stream in error, there is no optimized data stream.
Action: No action necessary.

ABL3410E Instorage tracing is currently active
Reason: Self explanatory.
Action: Stop the trace, and reenter your input.

ABL3701E INVALID INPUT KEY

Reason: Self explanatory.

Action: Use a correct input key as displayed.

ABL3702E INVALID OPTION

Reason: Self explanatory.

Action: Use a valid option or a valid combination ('=xx.xx') to go to another panel.

ABL3703E INVALID INPUT (I/O/A)

Reason: Self explanatory.

Action: Enter either **I**, **O**, or **A** to view inbound, outbound, or all error statistics.

ABL3704E ERROR STATISTICS NOT AVAILABLE (xxxx)

Reason: Internal error. xxxx is either **TRCB** or **ESTA**.

Action: Contact IBM Support.

ABL3705E ERROR DESCRIPTIONS NOT FOUND RC=nn

Reason: A message text is missing in module **ABL3705E**. nn is either 08 or 12.

Action: Contact IBM Support.

CHAPTER 2: COMMAND EXECUTION MESSAGES

All actions taken on the menus or panels are confirmed by an appropriate message:

- On line 3 (message area) of the menus, or
- On line 23 within the Compatibility Mode.

These messages have the following format:

```
ABLnnnnx message text
```

Where: *nnnn* is a unique message number from 0000 to 9999

x is the message type:
I . . . Informational
E . . . Error

message text is a short description of the message.

All error messages (E type) will position the cursor onto the defective input field of the screen whenever appropriate.

The messages are numbered sequentially. However, you will find gaps in the number sequence. The following pages list the possible messages that may be issued.

ABL5001I COMMAND SUCCESSFULLY PROCESSED

Reason: Self explanatory.

Action: None

ABL5002E COMMAND NOT SUPPORTED YET

Reason: Internal error.

Action: Contact IBM Support.

ABL5003I RETRY COMMAND - COMMAND IN PROGRESS FOR LU=name

Reason: Only one command can be serviced at a time. The name of the terminal that issued the command currently being processed is displayed. If the problem persists probably a VTAM error occurred. Please consult CICS OTTO's console messages.

Action: Try your action again. If the problem persists the situation may be reset by typing \$\$ in the first two bytes of CICS OTTO's command line. This will lead to a ABL5102E message, but all following commands will be serviced normally. If you are using any CICS OTTO menus, the above input can be entered on any other terminal in CICS OTTO's compatibility mode.

ABL5101E SYNTAX ERROR

Reason: Self explanatory.

Action: Correct command or keyword.

ABL5102E INVALID COMMAND

Reason: Self explanatory.

Action: Correct command.

ABL5103E INVALID OR MISSING PASSWORD

Reason: Self explanatory.

Action: Correct password.

ABL5104E KEYWORDS NOT ALLOWED

Reason: Self explanatory.

Action: Enter command only.

ABL5105E REQUIRED KEYWORD(S) MISSING

Reason: Command requires keyword(s).

Action: Enter required keyword(s).

ABL5106E DEFAULT COMMAND NOT DEFINED

Reason: Internal error.

Action: Contact IBM Support.

ABL5107E MISSING OR INVALID DATA

Reason: Missing or invalid data specification for a given keyword.

Action: Correct data specification.

ABL5108E RIGHT PARENTHESIS MISSING

Reason: Data list requires right parenthesis.

Action: Enter right parenthesis.

ABL5109E SECOND HYPHEN MISSING

Reason: Self explanatory.

Action: Enter second hyphen.

ABL5110E ADDITIONAL KEYWORD(S) MISSING

Reason: An entered keyword requires additional keyword(s).

Action: Enter additional keyword(s).

ABL5111E INVALID KEYWORD

Reason: Self explanatory.

Action: Enter correct keyword.

ABL5112E DATA NOT ALLOWED

Reason: Keyword does not allow data specification.

Action: Correct keyword or erase data specification.

ABL5113E DATA LIST NOT ALLOWED

Reason: Keyword does not allow data list specification.

Action: Correct keyword or erase data list specification.

ABL5114E DEFAULT KEYWORD NOT DEFINED

Reason: Internal error.

Action: Contact IBM Support.

ABL5115E INVALID DATA LENGTH

Reason: Number of hexadecimal digits is not a multiple of 2.

Action: Correct data specification.

ABL5116E INVALID DATA CHARACTER

Reason: Self explanatory.

Action: Correct data specification.

ABL5117E DATA TOO LONG

Reason: Self explanatory.

Action: Correct data specification.

ABL5118E GENERIC DATA NOT ALLOWED

Reason: Keyword does not allow generic data specification.

Action: Correct data specification.

ABL5201E INTERNAL ERROR - INVALID PARM

Reason: Internal error.

Action: Contact IBM Support.

ABL5202E INTERNAL ERROR - INVALID PARM

Reason: Internal error.

Action: Contact IBM Support.

ABL5203I COMPONENT ALREADY ACTIVE

Reason: A START command was issued for an active component.

Action: None

ABL5204I COMPONENT(S) ALREADY ACTIVE

Reason: A START ALL command was issued while one or more components were already active.

Action: None

ABL5205E INTERNAL ERROR - INVALID PARM

Reason: Internal error.

Action: Contact IBM Support.

ABL5207E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL5208E PERMANENT OPTION DISABLED - NO VSAM CONTROL FILE

Reason: A VSAM error occurred while updating the OTTOCMD file, the command was processed only temporarily.

Action: Please check the log output for additional messages.

ABL5209E SUPPORT FOR 3600 DISABLED - OTTOSNAI MISSING

Reason: Component 3600 was started, but module ABLSNAI is missing.

Action: Assemble and link ABLSNAI into library and issue a RELOAD command, if you want to use CICS OTTO's SNA compression, else ignore the message.

ABL5210I COMMAND FOR 3600 NOT COMPLETED - OTTOSNAI MISSING

Reason: A START ALL command was issued, but module ABLSNAI is missing.

Action: Assemble and link ABLSNAI into library and issue a RELOAD command, if you want to use CICS OTTO's SNA compression, else ignore the message.

ABL5301E INTERNAL ERROR - INVALID PARM

Reason: Internal error.

Action: Contact IBM Support.

ABL5302E INTERNAL ERROR - INVALID PARM

Reason: Internal error.

Action: Contact IBM Support.

ABL5303I COMPONENT ALREADY STOPPED

Reason: A specific STOP command was issued for a non active component.

Action: None

ABL5304I COMPONENT(S) ALREADY STOPPED

Reason: A general STOP command was issued while one or more components were already stopped.

Action: None

ABL5307E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code .

ABL5308E PERMANENT OPTION DISABLED - NO VSAM CONTROL FILE

Reason: A VSAM error occurred while updating the OTTOCMD file. No permanent updates are allowed.

Action: Please check the Log output for additional messages.

ABL5401E INTERNAL ERROR - FIRST PARM MISSING

Reason: Internal error.

Action: Contact IBM Support.

ABL5402I COMPONENT/TERMINAL NEVER STARTED - NO STATISTICS AVAILABLE

Reason: Self explanatory.

Action: None

ABL5403I IMAGE POOL NOT AVAILABLE

Reason: Self explanatory.

Action: None

ABL5404I NO MODULE STATISTICS AVAILABLE

Reason: A DISPLAY MODSTATS was issued, but module statistics were never started.

Action: Start module statistics.

ABL5405I SPECIFIED MODULE NOT IN STATISTICS LIST

Reason: A DISPLAY MODSTATS for a specific module was issued, but the module statistics were never started for the specified module.

Action: Correct the module name, if a wrong name was entered.
Select the module for module statistics (SELECT MODSTAT=module).

ABL5501I NO ENTRIES IN SPECIFIED LIST

Reason: Self explanatory.

Action: None

ABL5601I TRACE NOT ACTIVE

Reason: A DISPLAY TRACE command was entered while trace is not active.

Action: None

ABL5701E INTERNAL ERROR - FIRST PARM MISSING

Reason: Internal error.

Action: Contact IBM Support.

ABL5702E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return- and feedback code.

ABL5703E TRACE STILL ACTIVE

Reason: A TRACE command was entered while a trace was active.

Action: None

ABL5705E PENDING QUEUE TOO SMALL

Reason: Not enough main storage available.

Action: Increase region size before your next startup CICS.

ABL5706E NOTHING TO RELEASE

Reason: A TRACE RELEASE command was entered, but there was no instorage trace area.

Action: None

ABL5708E TRACE NOT ACTIVE

Reason: A TRACE OFF command was issued, but the trace was never started.

Action: None

ABL5709E FIRST TRACE RECORD MISSING

Reason: Internal error.

Action: Contact IBM Support.

ABL5710E TRACE WITH THIS ID STILL ON FILE

Reason: There are already trace records with the same ID on the trace file.

Action: Change ID.

ABL5711E TRACE FILE OPEN ERROR

Reason: Internal error.

Action: Check for additional LOG output messages and contact IBM Support.

ABL5712E TRACE FILE CLOSE ERROR

Reason: Internal error.

Action: Check for additional LOG output messages and contact IBM Support.

ABL5713E TRACE FILE MISSING

Reason: The required OTTOTRCS DD statement is missing - the trace facility cannot be used during this startup.

Action: Add an OTTOTRCS DD statement to the TP system startup JCL.

ABL5714E PUT NEW ERROR

Reason: Internal error.

Action: Check for additional LOG output messages and contact IBM Support.

ABL5716E SNAP FILE MISSING

Reason: Internal error.

Action: Check for additional LOG output messages and contact IBM Support.

ABL5801E INTERNAL ERROR - FIRST PARM MISSING

Reason: Internal error.

Action: Contact IBM Support.

ABL5802E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL5804E COMMAND TEMPORARILY PROCESSED BUT NOT PERMANENTLY (VSAM FILE MISSING)

Reason: A permanent SET command was issued, but the OTTOCMD VSAM file cannot be located.

Action: Check LOG output for additional messages.

ABL5820E CONTROL FILE FULL - COMMAND TEMPORARILY PROCESSED

Reason: CICS OTTO's VSAM control file is too small to add another entry.

Action: Increase file size before your next startup. For details how to increase the VSAM files refer to the *CICS Online Transmission Time Optimizer User's Guide*.

ABL5822E PENDING QUEUE FULL - COMMAND NOT COMPLETED

Reason: Not enough main storage available.

Action: Increase region size before your next startup of CICS.

ABL5823E INVALID LINE SIZE

Reason: An invalid print line size was entered.

Action: Enter a valid line size.

ABL5824E LOGIC VSAM ERROR (NOT FOUND, ETC)

Reason: Internal error.

Action: Contact IBM Support.

ABL5825E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL5826E SLOT SIZE TOO SMALL (MIN=256)

Reason: Self explanatory.

Action: Correct slot size specification.

ABL5828E POOL SIZE TOO SMALL (MIN=16)

Reason: Self explanatory.

Action: Correct pool size specification.

ABL5832E IMAGING NOT ALLOWED WITHOUT POOL

Reason: A SET OPTIMIZATION 3270 OUTPUT IMAGE command was issued that requires an image pool, but there is no pool present.

Action: None

ABL5836E COMMAND SUCCESSFULLY PROCESSED - BUT IMAGING REQUIRED FOR FMERGE

Reason: A SET FMERGE ON command was issued, but Imaging must be active for this optimization technique.

Action: Issue a SET OPT 3270 OUT IMAGE command.

ABL5837E INVALID DATA FOR SCS KEYWORD (VALID: SCS or 3270)

Reason: Self explanatory.

Action: Correct the command.

ABL5838I COMMAND SUCCESSFULLY PROCESSED

Reason: Self explanatory.

Action: None.

ABL5839E INVALID 3270-PRINTER LINESIZE (VALID VALUES ARE 132 / 80 / 64 / 40)

Reason: Self explanatory.

Action: Correct the command.

ABL5840E INVALID DATA FOR WRAP KEYWORD (VALID : YES OR NO)

Reason: A SET ITRACE command was issued with an invalid value for the WRAP keyword.

Action: Enter YES or NO for the WRAP keyword.

ABL5841E INVALID DATA FOR STOP KEYWORD (VALID : YES OR NO)

Reason: A SET ITRACE command was issued with an invalid value for the STOP keyword.

Action: Enter YES or NO for the STOP keyword .

ABL5842E INVALID DATA FOR CODE KEYWORD (VALID : INN OR ONN)

Reason: A SET ITRACE command was issued with an invalid value for the CODE keyword.

Action: An error code must be specified as *Inn* or *Onn*, where *nn* is replaced with two numeric digits. A generic specification is allowed, e. g., *In** or *O**.

ABL5843E TOO MANY CODES SPECIFIED

Reason: A SET ITRACE command was issued with too many error codes for the CODE keyword.

Action: Enter up to a maximum of three valid error codes for the CODE keyword.

ABL5844E INSTORAGE TRACE STILL ACTIVE

Reason: A SET ITRACE command was issued, but an instorage trace is currently active.

Action: Stop the trace, and reenter the SET ITRACE command.

ABL5901E LOGIC VSAM ERROR (NOT FOUND, ETC)

Reason: Internal error.

Action: Contact IBM Support.

ABL5902E VSAM ERROR RC/FDBK=*return code/feedback code*

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL5903E INVALID LANGUAGE

Reason: A SET LANGUAGE command was issued. This is allowed only for authorized persons during CICS OTTO installation to change the message language.

Action: None

ABL5904E COMMAND TEMPORARILY PROCESSED BUT NOT PERMANENTLY (VSAM FILE MISSING)

Reason: A permanent SET command was issued, but the OTTOCMD VSAM file cannot be located.

Action: Check LOG output for additional messages.

ABL5905E MODULE OTTO.. NOT FOUND, SUFFIX *xxxx*

Reason: If *xxxx* is EXIT, the SET EXIT ON SUFFIX=*'nn'* command specified a module that is not in the library. If *xxxx* is CMMA, the SET LANGUAGE command specified a language that is not supported.

Action: If *xxxx* is EXIT assemble and link ABLEX*nn* into library and reenter the SET EXIT command. If *xxxx* is CMMA, contact IBM support.

ABL5906E INVALID OR MISSING SUFFIX

Reason: The suffix specification in the SET EXIT command is invalid.

Action: Correct the suffix specification.

ABL5907E INVALID DATE SPECIFICATION

Reason: Date can only be set to EUROPEAN, AMERICAN or JULIAN.

Action: Correct the date specification.

ABL5909I ENTERED LANGUAGE ALREADY TEMPORARILY ACTIVE

Reason: Self explanatory.

Action: None.

ABL5910I ENTERED PASSWORD ALREADY TEMPORARILY ACTIVE

Reason: Self explanatory.

Action: None

ABL5911I ENTERED PASSWORD ALREADY PERMANENTLY ACTIVE

Reason: Self explanatory.

Action: None

ABL5912I ENTERED LANGUAGE ALREADY PERMANENTLY ACTIVE

Reason: A SET LANGUAGE command was issued for a language already in use.

Action: None

ABL5913I USER EXIT IS ALREADY TEMPORARILY SET OFF

Reason: Self explanatory.

Action: None

ABL5914I USER EXIT IS ALREADY PERMANENTLY SET OFF

Reason: Self explanatory.

Action: None

ABL5915I USER EXIT IS ALREADY TEMPORARILY ACTIVE

Reason: Self explanatory.

Action: None

ABL5916I USER EXIT IS ALREADY PERMANENTLY ACTIVE

Reason: Self explanatory.

Action: None

ABL5917I DATE FORMAT ALREADY ACTIVE

Reason: Self explanatory.

Action: None

ABL5918I ENTERED APPL-ID ALREADY TEMPORARILY ACTIVE

Reason: Self explanatory.

Action: None

ABL5919I ENTERED APPL-ID ALREADY PERMANENTLY ACTIVE

Reason: Self explanatory.

Action: None

ABL5920E CONTROL FILE FULL - COMMAND TEMPORARILY PROCESSED

Reason: CICS OTTO's VSAM control file OTTOCMD is too small to add another entry.

Action: Increase file size before your next startup.

ABL5921E ERROR OCCURRED DELETING A MODULE

Reason: Internal error.

Action: Check LOG output for additional messages and contact IBM Support.

ABL5922E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL5924E VSAM ERROR CLOSING THE CONTROL FILE RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL5927E COMMAND AVAILABLE ONLY IN BATCH ENVIRONMENT

Reason: A command was issued that is only available in ABLBAT batch environment.

Action: None

ABL5928E COMMAND NOT ALLOWED WITHOUT VSAM FILE

Reason: A permanent command was issued that requires the OTTOCMD VSAM file.

Action: None

ABL5929E SLOT SIZE TOO SMALL (MIN=256)

Reason: Self explanatory.

Action: Correct your input.

ABL5930E SLOT SIZE TOO HIGH (MAX=9996)

Reason: Self explanatory.

Action: Correct your input.

ABL5931E POOL SIZE TOO SMALL (MIN=16)

Reason: Self explanatory.

Action: Correct your input.

ABL5932E POOL SIZE TOO HIGH (MAX=99999)

Reason: Self explanatory.

Action: Correct your input.

ABL5934E COMMAND PERMANENTLY PROCESSED - BUT NO STORAGE GOT FOR CURRENT POOL

Reason: An attempt was made to set or increase the current pool size, but there was no storage available.

Action: Increase region size before your next startup of CICS.

ABL5935E COMMAND PERMANENTLY PROCESSED - BUT NO STORAGE AVAILABLE FOR STATS.

Reason: An attempt was made to set or increase the current statistics size, but there was no storage available.

Action: Increase region size before your next startup of CICS.

ABL6002E DELETE ERROR

Reason: Internal error.

Action: Contact IBM Support.

ABL6003E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL6004I ENTRY NOT FOUND IN LIST

Reason: A RESET LU/MOD=*name* command was issued, but the entry *name* does not exist.

Action: Correct your input.

ABL6005I EMPTY LIST

Reason: A RESET ALL command was issued, but the specified list is empty.

Action: None.

ABL6101E INVALID MOD SPECIFICATION

Reason: A RELOAD can only be issued for the 3600/4700 interface module ABLSNAI, the user exit ABLEX*nn* or any optimization module ABL32*nn* after applying a PTF.

Action: Correct MOD specification.

ABL6102E MODULE LOAD ERROR

Reason: A LOAD error occurred during RELOAD of a module.

Action: Repeat the same action. If the error persists, check if the specified module is in CICS OTTO's LOAD library (ABLSNAI, ABLEX*nn*). Check if this library is concatenated to DFHRPL.
If the error occurs during a RELOAD of any ABL32*nn* module, check if the module is on the OTTOMOD VSAM file. Use the IDCAMS utility to do so. Also, check the LOG output for additional messages.

ABL6103E MODULE CANNOT BE RELOADED

Reason: A RELOAD command was issued for a module, which cannot be reloaded because the module must be permanently loaded. Only ABLSNAI, ABLEX*nn*, as well as any optimization module ABL32*nn* can be reloaded.

Action: None

Note: All messages in the ABL6201 – ABL6222 range are caused by an internal command to view and manipulate CICS OTTO's control-blocks, areas, and modules that are not documented. These actions should only be done by technicians for problem determination.

ABL6201E INTERNAL ERROR - FIRST PARM MISSING

Reason: Internal error.
Action: Contact IBM Support.

ABL6202E MODULE NOT FOUND

Reason: A view or change command was issued for a CICS OTTO module that cannot be located.
Action: None

ABL6203E STRING COULD NOT BE VERIFIED

Reason: Self explanatory.
Action: None

ABL6204E CONTROL BLOCK NOT FOUND

Reason: A view or change command was issued for a CICS OTTO control block that cannot be located.
Action: None

ABL6205E OFFSET NOT WITHIN MODULE / CONTROL BLOCK

Reason: A view or change command was issued for a displacement outside of a CICS OTTO module or control block.
Action: None

ABL6206E CONTROL BLOCK NOT ADDRESSED

Reason: Control block address is zero.
Action: None

ABL6207E NO VSAM CONTROL FILE CREATED

Reason: The VSAM file for OTTOMOD / OTTOCMD could not be accessed.
Action: None

ABL6208E NO RECORD FOUND

Reason: A NOT FOUND condition occurred during READ from a VSAM file.
Action: Check LOG output for additional messages.

ABL6209E VSAM ERROR RC/FDBK=returncode/feedbackcode

Reason: Self explanatory.

Action: Analyze the VSAM return code and feedback code.

ABL6210E LU OR MODULE NAME MISSING

Reason: Self explanatory.

Action: Correct your input.

ABL6211E INVALID SLOT NUMBER

Reason: Self explanatory.

Action: Correct your input.

ABL6301E CONTROL FILE FULL - COMMAND TEMPORARILY PROCESSED

Reason: CICS OTTO's VSAM control file, OTTOCMD, is too small to add another entry.

Action: Increase file size before your next startup.

ABL6302E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL6303E EXCLUSION/SELECTION LIST OVERFLOW

Reason: Not enough main storage to add more entries.

Action: Increase region size for your next startup.

ABL6304E INTERNAL ERROR: PUT RECORD FAILED

Reason: Internal error.

Action: Contact IBM Support.

ABL6305I ENTRY ALREADY EXISTS IN LIST

Reason: Duplicate exclusion/selection list entry.

Action: None

ABL6306E COMMAND TEMPORARILY PROCESSED BUT NOT PERMANENTLY (VSAM FILE MISSING)

Reason: CICS OTTO's VSAM control file OTTCMD could not be allocated.

Action: Check LOG output for additional messages.

ABL6402E VSAM ERROR RC/FDBK=return code/feedback code

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code.

ABL6403I ENTRY WAS NOT PERMANENT - COMMAND TEMPORARILY PROCESSED

Reason: INCLUDE or UNSELECT command specified PERMANENT although the entry was only temporary.

Action: None

ABL6404I ENTERED NAME NOT IN LIST

Reason: The INCLUDE or UNSELECT command specified entries that were never excluded or selected.

Action: None

ABL6405E INTERNAL ERROR: NO ACTIVE ENTRY FOUND

Reason: Internal error.

Action: Contact IBM Support.

ABL6406E COMMAND TEMPORARILY PROCESSED BUT NOT PERMANENTLY (VSAM FILE MISSING)

Reason: CICS OTTO's VSAM control file OTTCMD could not be allocated.

Action: Check LOG output for additional messages.

ABL6407I ENTRY ALREADY TEMPORARILY INACTIVE

Reason: Self explanatory.

Action: None

ABL6501E LU(S) NOT IN TERMINAL LIST

Reason: The CLEAR command specified an LU that was never active.

Action: None

ABL6502E MODULE(S) NOT IN STATISTICS LIST

Reason: The CLEAR command specified a module that was never active for module statistics.

Action: None

ABL6503E INSTORAGE TRACE STILL ACTIVE

Reason: The CLEAR ITRACE command was issued, but the instorage trace is active.

Action: Stop the instorage trace and reenter the CLEAR ITRACE command.

This page intentionally left blank.

CHAPTER 3: CONSOLE MESSAGES

Messages are written to the console at startup time, shutdown time, and whenever the terminal operator issues a LOG command or a critical runtime error occurs.

All console messages have the following format:

ABLnnnnx message text

Where: *nnnn* is a unique message number from 0000 to 9999

x is the message type:

I . . . Informational

E . . . Error which causes CICS OTTO to disable itself

message text is a short description of the message.

All error messages (E type) indicate a severe error situation, which causes CICS OTTO to disable itself.

ABL0002E OTTO DD STATEMENT FOR OTTOMOD MISSING

Reason: Self explanatory.

Action: Add required OTTOMOD DD statement to TP system JCL.

ABL0003E OTTO VSAM ERROR FILE=MODS FDBK=*rc-fdbk* FUNC=*func*
rc-fdbk VSAM return code and feedback code
func Internal OTTO VSAM function

Reason: Self explanatory.

Action: Analyze VSAM return code and feedback code - contact IBM Support if the solution is not obvious.

ABL0004E OTTO WORKAREA OVERFLOW TIOAL=*tioal* WORKL=*wrkl*

tioal Terminal input/output area length
wrkl OTTO workarea length

Reason: Internal error.

Action: Contact IBM Support.

ABL0005E OTTO TERM. I/O AREA OVERFLOW TIOAL=*tiol* MSGL=*msgl*

tiol Terminal input/output area length
msgl Optimized message length

Reason: CICS OTTO was not able to increase the TIOA for whatever internal reasons (maybe an application is using a "WRITE/SAVE").

Action: Please prepare the following information for the problem determination:

- CICS OTTO's internal trace.
- TIOA send- and receive length from the CICS terminal definition.
- CICS SIT RAMAX definition.
- Any CICS messages written to the LOG output.

As a circumvention, the optimization for the module(s) causing the error may be set to OUTPUT NOIMAGE.

ABL0006E OTTO LU = *tid* PGM = *pgm* DIR = *dir*

tid Terminal-ID
pgm Program name
dir IN or OUT

Reason: Additional information to ABL0004E or ABL0005E.

Action: See ABL0004E or ABL0005E.

ABL0200E OTTO ERROR LOADING MODULE *module*

module OTTO module identifier

Reason: Error occurred loading a CICS OTTO module.

Action: Contact IBM Support.

ABL0201E OTTO INCORRECT VM FOR MODULE *module* *mvvm* *evvm*

module OTTO module identifier
mvvm Module version/modification level
evvm Expected version/modification level

Reason: A CICS OTTO module does not have the system version/modification level. This error may be caused by mixing CICS OTTO versions, i.e. a newly generated OTTOEXIT and CICS OTTO's VSAM files OTTMOD / OTTOCMD of a prior version, etc.

Action: Check the following:

- Make sure that the distribution tape was downloaded correctly.
- Check OTTOEXIT generation (using the correct version and TP-system libraries)
- Check if the correct OTTOEXIT module was copied to your CICS DFHRPL library.
- Check if the distributed VSAM control files are specified in the TP-system startup deck.

ABL0202E OTTO VSAM ERROR FUNC=*func* FDBK=*fdbk* FILE=CNTL
func Internal VSAM function code
fdbk VSAM feedback code

Reason: Self explanatory.

Action: Analyze the VSAM feedback code. Contact IBM Support if not obvious.

ABL0203E OTTO GETMAIN FAILURE

Reason: Self explanatory.

Action: Increase the region size before your next startup.

ABL0204I OTTO DD-STATEMENT FOR TRACE FILE MISSING

Reason: Self explanatory.

Action: Add an OTTOTRCS DD statement to the startup JCL of your TP system.

ABL0205I OTTO MSG MODULE *ma* MISSING - SWITCHING TO ENGLISH
ma Message module suffix

Reason: An attempt to access a language dependent message module different from English was made, but the module ABLCMxx could not be located.

Action: None

ABL0206I OTTO EXIT MODULE *sf* MISSING - EXIT DISABLED
sf User exit suffix

Reason: A permanent user exit was specified using the SET command or in CICS OTTO's system options menu. This exit could not be located in the allocated library.

Action: Assemble and link the user exit ABLEXsf into library and issue a RELOAD command.

ABL0207E OTTO ERROR STATISTICS: MAX NUMBER CONFLICT

Reason: The storage area for error statistics could not be initialized.

Action: Contact IBM support.

ABL0208I OTTO IMAGE POOL GETMAIN FAILED - IMAGING DISABLED

Reason: Self explanatory.

Action: Increase region size before your next startup.

ABL0209I OTTO MODULE SNAI MISSING - 3600 SUPPORT DISABLED

Reason: Module ABLSNAI could not be located in any allocated library.

Action: This warning is written to the system LOG output at CICS OTTO's startup in addition to the system message (that can be defined by the user) indicating a LOAD error and can be ignored. If you want to use 3600/4700 optimization or to omit the above message, ABLSNAI must be generated.

ABL0210E OTTO GETMAIN FAILURE LOADING COMMAND MODULES

Reason: Self explanatory.

Action: Increase region size before your next startup.

ABL0211I OTTO V1R2 START-UP IN PROGRESS.

Reason: ABLSTRT has startup control.
This message indicates the start of CICS OTTO's initialization.

Action: None

ABL0212I OTTO V1R2 *vvmm/ptfl* VERSION INITIALIZED

vvmm Internal version/modification (for example 0601)
ptfl Internal ptf level as yyddd (for example 06001)

Reason: Self explanatory.

Action: None

ABL0213I OTTO V1R2 TERMINATION BEGINNING

Reason: ABLSTOP got the control during CICS shutdown.
This message indicates the start of CICS OTTO termination.

Action: None

ABL0214I OTTO V1R2 TERMINATION COMPLETE

Reason: Self explanatory.

Action: None

ABL0220I OTTO V1R2 OTTOEXIT SUCCESSFULLY DISABLED

Reason: Program ABLTSTP has been disabled (exit routine OTTOEXIT).

Action: None

ABL0230I OTTO V1R2 RESTART IN PROGRESS

Reason: Program ABLTSTA has been started to restart CICS OTTO processing.

Action: None

ABL0231I OTTO V1R2 RESTART SUCCESSFULLY PROCESSED

Reason: Program ABLTSTA has successfully started CICS OTTO processing.

Action: None

ABL0232E OTTO V1R2 OTCB ADDRESS INVALID - NO RESTART PERFORMED

Reason: Internal error.

Action: Contact IBM support

ABL0233I OTTO V1R2 STILL ACTIVE - NO RESTART PERFORMED

Reason: An attempt has been made to restart CICS OTTO processing (program ABLTSTA), but CICS OTTO is not stopped.

Action: Stop CICS OTTO processing (program ABLTSTP).

ABL0234E OTTO V1R2 NO RESTART PERFORMED: 1LOK NOT ON

Reason: An attempt has been made to restart CICS OTTO processing (program ABLTSTA), but CICS OTTO initialization was not successful.

Action: Contact IBM support.

ABL0235E OTTO V1R2 OTTOEXIT xxxx

Reason: Exit routine OTTOEXIT could not be enabled. xxxx gives further diagnostics information for technical support.

Action: Contact IBM support.

ABL0236E OTTO V1R2 INVALID EXIT xxxxxxxxx

Reason: Exit routine OTTOEXIT could not be enabled.

Action: Contact IBM support.

ABL0237E OTTO V1R2 NOT AUTHORIZED

Reason: Exit routine OTTOEXIT could not be enabled.

Action: The user who starts program ABLTSTA must be authorized.

ABL0240I OTTO V1R2 TERMINATION BEGINNING

Reason: Program ABLTSTP has been started to stop CICS OTTO processing.

Action: None

ABL0241I OTTO V1R2 SUCCESSFULLY STOPPED

Reason: Program ABLTSTP has stopped CICS OTTO processing.

Action: None

ABL0242I OTTO V1R2 ALREADY STOPPED

Reason: Program ABLTSTP has been started, but CICS OTTO processing is already stopped

Action: None

ABL0243E OTTO V1R2 NOT STOPPED: OTCB NOT AVAILABLE

Reason: Internal error.

Action: Contact IBM support.

ABL0244E OTTO V1R2 STOP FAILED

Reason: Program ABLTSTP called OTTOEXIT to stop CICS OTTO processing, but OTTOEXIT failed.

Action: Contact IBM support.

ABL0245E OTTO V1R2 OTTOEXIT xxxx

Reason: Exit routine OTTOEXIT could not be disabled. xxxx contains further diagnostic information.

Action: Contact IBM support.

ABL0246E OTTO V1R2 EXIT XZCIN DOES NOT EXIST

Reason: Internal error.

Action: Contact IBM support.

ABL0247E OTTO V1R2 NOT AUTHORIZED

Reason: Exit routine OTTOEXIT could not be disabled.

Action: The user who started program ABLTSTP must be authorized.

ABL0250I OTTO *vmmm/ptf* Statistics for Applid *appl-id*

vmmm Internal OTTO version and modification level
ptf Internal PTF level
appl-id Application identifier

Reason: Start of statistics written at shutdown of the TP system or after a CICS OTTO LOG command.

Action: None

ABL0251I ... ABL0277I *statistic message*

Reason: Statistic message written at shutdown or on demand. All messages are self explanatory (ABL0272I, ABL0273I and ABL0274I are currently not in use). Only some of the messages are explained in detail following.

Action: None

ABL0252I FROM *s-date* *s-time* TO *p-date* *p-time*

s-date Component start date
s-time Component start time
p-date Component stop date
p-time Component stop time

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0253I -----COUNT----- ----OPTIMIZED---- PERCENT.

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0254I MS OUT *o-cnt* *o-opt* *o-per%*

o-cnt Number of output messages
o-opt Number of optimized output messages
o-per Percentage ($o-opt/o-cnt * 100$)

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0256I --COUNT BEFORE--- ---COUNT AFTER--- REDUCTION

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0257I BY OUT *o-bcnt* *o-acnt* *o-per%*

o-bcnt Number of output bytes before optimization
o-acnt Number of output bytes after optimization
o-per Percentage ($o-acnt/o-bcnt * 100$)

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0260I OTTO IMAGE POOL STATISTICS

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0261I TOTAL POOL SIZE : *ps* KB

ps Pool size in kilobytes

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0262I NUMBER OF SLOTS : *ns*

ns Number of generated slots

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0263I SLOT SIZE : *ss* BYTES

ss Slot size in bytes

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0264I SLOTS IN USE : *su*

su Number of slots currently in use

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0265I AVERAGE IMAGE LEN : *il* BYTES

il Average image length in bytes

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0266I SHORTAGE DELETIONS: *sd*

sd Number of image deletions because of pool shortage

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0267I DELETE REQUESTS : *dr*

dr Number of explicit image deletions

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0268I IMAGE NOT SAVED : *ns*

ns Number where image could not be saved

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0269I IMAGE NOT FOUND : *nf*

nf Number of image not found conditions

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0275I LARGEST IMAGE : *no* BYTES

no Number of bytes of largest saved image

Reason: Shutdown of the TP system or CICS OTTO's LOG command.

Action: None

ABL0276I ECD COUNT LU MODULE ID PSIZ DSPL OR/FLD

Reason: Header line of error statistics. One or more ABL0277I lines follow.

Action: None

ABL0277I *cod nnnnn luname modname id psiz dspl ordfld*
cod error code (Inn or Onn)
nnnnn error count (since CICS OTTO start or last CLEAR ESTAT)
luname terminal where error occurred
modname module that produced data stream
id partition ID (hexadec.)
psiz partition size (hexadec.)
dspl displacement of error in data stream (hexadec.)
ordfld data at displacement *dspl*

Reason: Detail line of error statistics.

Action: None

ABL0278E OTTO *file* OUTPUT HALTED (OUT OF SPACE)

file is replaced by STATISTICS or TRACE

Reason: This message indicates that an X37 situation was corrected. The output represented by *file* is stopped.

Action: Increase disk space for the file.

ABL0279E OTTO *file* FILE WRAPPED

file is replaced by STATISTICS or TRACE

Reason: This message is an additional message to ABL0278E. The output represented by *file* output is wrapped as defined during CICS OTTO's installation procedure.

Action: None

ABL0292E IMAGE DELETION CAUSED BY UNEXPECTED RETURN CODE

Reason: Internal error.

Action: Contact IBM Support.

ABL0293E DYNAMIC INCREASE OF IMAGE POOL FAILED

Reason: Self explanatory.

Action: Increase image pool size.

ABL0294E LU=*lu* MOD=*mod* RC=*rc*

Reason: Additional information for message ABL0292E.

Action: See ABL0292E.

ABL0295E IMAGE POOL HAS BEEN INCREASED DYNAMICALLY

Reason: Self explanatory.

Action: None

CHAPTER 4: MAINTENANCE AND CONVERSION UTILITY MESSAGES

All maintenance and conversion utility messages have the following format:

ABLnnnnx message text

Where: *nnnn* is a unique message number from 0000 to 9999

x is the message type:

I . . . Informational

W . . . Warning with a return code 4

E . . . Error with a return code 4

message text is a short description of the message.

All warning messages and error messages (E type and W type) will cause the utility to issue a return code of 4.

ABL0301E ERROR LOADING MODULE *loadmod* (NOT FOUND ON FILE)

Reason: The OTTO module *loadmod* could not be loaded from the allocated CICS OTTO VSAM files.

Action: Check LOG output for additional messages.

ABL0302E DD STATEMENT FOR CONTROL FILE MISSING (OTTOCMD/OTTOMOD)

Reason: Self explanatory.

Action: Add OTTOCMD or OTTOMOD DD-statement.

ABL0303E VSAM ERROR FUNC=*func* FDBK=*fdbk*

func Internal VSAM function
fdbk VSAM feedback code

Reason: Self explanatory.

Action: Analyze VSAM feedback code.

ABL0304E CONTROL FILE ALREADY OPEN - PLEASE USE OTTO CLOSE COMMAND

Reason: An update to one of CICS OTTO's VSAM files OTTOMOD / OTTOCMD was issued. The file is already opened for update by the online OTTO Transaction.

Action: Close the control file in the online OTTO transaction by using the CLOSE command.

ABL0305E *ddname* OPEN ERROR

ddname SYSPRINT or SYSIN

Reason: SYSPRINT or SYSIN DD statement is missing.

Action: Add DD statement(s).

ABL0306I NO INPUT AVAILABLE

Reason: The SYSIN file is empty.

Action: None

ABL0307E SYNTAX ERROR IN FOLLOWING COMMAND ON DISPLACEMENT *disp* CODE: *nn*

disp Error displacement within input record
nn Decimal number which refers to the message number
ABL51*nn*E

Reason: Self explanatory.

Action: Correct input record.

ABL0308E GETMAIN FAILURE

Reason: Self explanatory.

Action: Increase region size for the ABLMAIN utility job.

ABL0309E ERROR DURING OTTOINIT PROCESSING

Reason: CICS OTTO could not initialize for batch command processing.

Action: Refer to additional ABL02*nnx* messages written to the console.

ABL0310I COMMAND SUCCESSFULLY PROCESSED

Reason: Self explanatory.

Action: None

ABL0311E COMMAND MODULE NOT FOUND OR NOT LOADED

Reason: The module that executes the current command could not be loaded.

Action: Contact IBM Support.

ABL0312E MESSAGE NOT GOT FROM OTTOCM02

Reason: An error message could not be found in the message text module.

Action: Contact IBM Support.

ABL0313E COMMAND NOT EXECUTABLE IN BATCH ENVIRONMENT

Reason: The commands above cannot be executed in batch environment.

Action: None

ABL0314I OPTION P<ERMANENT> NOT SPECIFIED, CMD FILE NOT UPDATED

Reason: The option T<EMPORARY> was explicitly specified.
The OTTOCMD file will not be updated.

Action: None

ABL0315I OPTION P<ERMANENT> ASSUMED

Reason: When any of the commands START, STOP, SET, EXCLUDE, INCLUDE, SELECT, or UNSELECT is executed in batch mode (program ABLBAT), the default option for the command is P<ERMANENT>. The OTTOCMD file will be updated.

Action: None

ABL0402E DD STATEMENT FOR CONTROL FILE MISSING: *ddname*

ddname NEWCMD for new OTTO control file
OLDCNV for old OTTO control file

Reason: Self explanatory.

Action: Add missing DD statement.

ABL0403E VSAM ERROR FUNC=*func* FDBK=*fdbk*

func internal function code
fdbk VSAM feedback code

Reason: Self explanatory.

Action: Analyze VSAM feedback code.

ABL0404E CONTROL FILE *ddname* ALREADY OPEN - PLEASE USE OTTO CLOSE COMMAND

ddname DD name of open file

Reason: An update to one of CICS OTTO's VSAM files OTTOMOD / OTTOCMD was issued. The file is already open for update by the online OTTO transaction.

Action: Close file control file in the online OTTO transaction using the CLOSE command.

ABL0405E SYSPRINT OPEN ERROR

Reason: Self explanatory.

Action: Add SYSPRINT DD statement.

ABL0406W **** WARNING: THE OPTIONAL UPDATE *zapname* IS INSTALLED ON THE OLD CONTROL FILE

zapname name of ZAP

Reason: Self explanatory.

Action: See related messages ABL0408W and ABL0409W.

ABL0407I CONTROL FILE SUCCESSFULLY CONVERTED FROM VM *vvmmo/ptfo* TO VM *vvmmn/ptfn*

vvmmo/ptfo old internal version
vvmmn/ptfn new internal version

Reason: Self explanatory.

Action: None

ABL0408W FOR INSTALLING IT ON THE NEW FILE SEE THE DISTRIBUTED SAMPLE JCL FOR OPTIONAL LOAD MAINTENANCE

Reason: Self explanatory.

Action: Install *update* displayed in related message ABL0406W.

ABL0409W TO INSTALL IT ON THE NEW FILE APPLY *zapname* WHICH YOU WILL FIND IN THE DISTRIBUTED SAMPLE JCL FOR OPTIONAL LOAD MAINTENANCE

zapname Problem report number

Reason: Self explanatory.

Action: Install *zapname* sample JCL for optional maintenance.

ABL0410W MODULE EXCLUSIONS NOT COPIED TO NEW CONTROL FILE BECAUSE ENTRIES FOUND IN NEW FILE

Reason: Self explanatory.

Action: None

ABL0411W TERMINAL SELECTIONS NOT COPIED TO NEW CONTROL FILE BECAUSE ENTRIES FOUND IN NEW FILE

Reason: Self explanatory.

Action: None

ABL0412W TERMINAL OPTIONS NOT COPIED TO NEW CONTROL FILE BECAUSE ENTRIES FOUND IN NEW FILE

Reason: Self explanatory.

Action: None

ABL0413W TERMINAL EXCLUSIONS NOT COPIED TO NEW CONTROL FILE BECAUSE ENTRIES
FOUND IN NEW FILE

Reason: Self explanatory.

Action: None

ABL0414W ISSUE OTTO COMMAND 'SET LIGHTPEN OFF ALL PERM'

Reason: The old control file contains an optional update that is now replaced by a CICS
OTTO setting.

Action: Issue the above command either online or using the batch command utility
ABLBAT.

ABL0415W ISSUE OTTO COMMAND 'SET DBCS ON PERM'

Reason: The old control file contains an optional update that is now replaced by a CICS
OTTO setting.

Action: Issue the above command either online or using the batch command utility
ABLBAT.

ABL0416W ISSUE OTTO COMMAND 'SET 3192 ON ALL PERM'

Reason: The old control file contains an optional update that is now replaced by a CICS
OTTO setting.

Action: Issue the above command either online or using the batch command utility
ABLBAT.

ABL0417W ISSUE OTTO COMMAND 'SET WCC-IGNORE ON ALL PERM'

Reason: The old control file contains an optional update that is now replaced by a CICS
OTTO setting.

Action: Issue the above command either online or using the batch command utility
ABLBAT.

ABL0419W ISSUE OTTO COMMAND 'SET ZERO-MF-ALLOWED ON ALL PERM'

Reason: The old control file contains an optional update that is now replaced by a CICS
OTTO setting.

Action: Issue the above command either online or using the batch command utility
ABLBAT.

ABL0420W ISSUE OTTO COMMAND 'SET BCS ON ALL PERM'

Reason: The old control file contains an optional update that is now replaced by a CICS
OTTO setting.

Action: Issue the above command either online or using the batch command utility
ABLBAT.

ABL0421W MODULE OPTIONS NOT COPIED TO NEW CONTROL FILE BECAUSE ENTRIES FOUND IN
NEW FILE

Reason: Self explanatory.

Action: None

ABL0422W SELECTIONS FOR MODULE STATISTICS NOT COPIED BECAUSE SUCH ENTRIES FOUND
IN NEW FILE

Reason: Self explanatory.

Action: None

ABL0423W EXCLUSIONS FOR MODULE STATISTICS NOT COPIED BECAUSE SUCH ENTRIES FOUND
IN NEW FILE

Reason: Self explanatory.

Action: None

ABL0424W CONTACT YOUR DISTRIBUTOR IF YOU STILL NEED THIS SPECIAL SUPPORT

Reason: Self explanatory.

Action: Contact IBM Support.

ABL0505E VSAM ERROR FUNCTION=*func* RC/FDBK (DECIMAL): *retc/fdbk* LAST USED KEY: *XXX*
func internal function code
retc VSAM return code
fdbk VSAM feedback code
XXX 12-byte VSAM key of record to be retrieved

Reason: Self explanatory.

Action: Analyze the VSAM feedback code.

ABL6601I NO LU BASED INFORMATION SET PERMANENTLY

Reason: Self explanatory.

Action: None

ABL6602I NO TERMINALS EXCLUDED PERMANENTLY

Reason: Self explanatory.

Action: None

ABL6603I NO MODULES EXCLUDED PERMANENTLY

Reason: Self explanatory.

Action: None

ABL6604I NO TERMINALS SELECTED PERMANENTLY

Reason: Self explanatory.

Action: None

ABL6605I NO MODULE BASED INFORMATION SET PERMANENTLY

Reason: Self explanatory.

Action: None

ABL6606I NO MODULES SELECTED PERMANENTLY FOR MODULE STATISTICS

Reason: Self explanatory.

Action: None

ABL6607I NO MODULES EXCLUDED PERMANENTLY FROM MODULE STATISTICS

Reason: Self explanatory.

Action: None

APPENDIX A: TECHNICAL SUPPORT CHECKLIST

If you encounter a problem that you cannot solve, please contact IBM Support. To help us to provide the best possible service to you, please consider the following checklist before you contact our office. Our contact information was provided on page iii.

Contact name: _____

Contact telephone: _____

CICS OTTO version and release number: _____

CICS version and release number: _____

Model of computer on which CICS OTTO is being used: _____

Operating system release number: _____

Other non-IBM proprietary software on your system: _____

Message number(s): _____

In addition to the general information shown on the checklist, we also need specific information about the problem you are having. The "Trouble Shooting" chapter in the *CICS Online Transmission Time Optimizer User's Guide* provides a list of information that is needed in order to resolve your problem. Before you contact us, please try to have this information available.

- A description of the problem, including answers to the following questions:

Is the problem intermittent?

Can you recreate the problem? If so, how?

Did any special conditions exist when the problem occurred?

This page intentionally left blank.

APPENDIX B: NOTICES

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area.

Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described 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
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan, Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or program(s) described in this publication at any time without notice. Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licenseses 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 United Kingdom Limited
Intellectual Property Department
Hursley Park
Winchester SO21 2JN
United Kingdom

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

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us. Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measures may have been made on development-level systems, and there is no guarantee that these measurements will be the same on generally available system. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the application data of their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claim related to non-IBM products.

Questions on capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at Copyright and trademark information at www.ibm.com/legal/copytrade.shtml.

INDEX

A

ABL0002E	37	ABL0253I	43
ABL0003E	37	ABL0254I	43
ABL0004E	37	ABL0256I	43
ABL0005E	38	ABL0257I	43
ABL0006E	38	ABL0260I	43
ABL0099E	1	ABL0261I	44
ABL0200E	38	ABL0262I	44
ABL0201E	38	ABL0263I	44
ABL0202E	39	ABL0264I	44
ABL0203E	39	ABL0265I	44
ABL0204I	39	ABL0266I	44
ABL0205I	39	ABL0267I	44
ABL0206I	39	ABL0268I	45
ABL0207E	39	ABL0269I	45
ABL0208I	39	ABL0275I	45
ABL0209I	40	ABL0276I	45
ABL0210E	40	ABL0277I	45
ABL0211I	40	ABL0278E	45
ABL0212I	40	ABL0279E	46
ABL0213I	40	ABL0292E	46
ABL0214I	40	ABL0293E	46
ABL0220I	40	ABL0294E	46
ABL0230I	40	ABL0295E	46
ABL0231I	41	ABL0301E	47
ABL0232E	41	ABL0302E	47
ABL0233I	41	ABL0303E	47
ABL0234E	41	ABL0304E	47
ABL0235E	41	ABL0305E	48
ABL0236E	41	ABL0306I	48
ABL0237E	41	ABL0307E	48
ABL0240I	41	ABL0308E	48
ABL0241I	42	ABL0309E	48
ABL0242I	42	ABL0310I	48
ABL0243E	42	ABL0311E	48
ABL0244E	42	ABL0312E	48
ABL0245E	42	ABL0313E	49
ABL0246E	42	ABL0314I	49
ABL0247E	42	ABL0315I	49
ABL0250I	42	ABL0402E	49
ABL0251I ... ABL0277I	43	ABL0403E	49
ABL0252I	43	ABL0404E	49
		ABL0405E	50
		ABL0406W	50
		ABL0407I	50

ABL0408W 50	ABL1801E 5
ABL0409W 50	ABL1802E 5
ABL0410W 50	ABL1803E 6
ABL0411W 50	ABL1804E 6
ABL0412W 51	ABL1901E 6
ABL0413W 51	ABL1902E 6
ABL0414W 51	ABL1903E 6
ABL0415W 51	ABL1904E 6
ABL0416W 51	ABL1905E 6
ABL0417W 51	ABL1906E 6
ABL0419W 51	ABL1907E 7
ABL0420W 52	ABL1909I 7
ABL0421W 52	ABL1910E 7
ABL0422W 52	ABL2001E 7
ABL0423W 52	ABL2002E 7
ABL0424W 52	ABL2003E 7
ABL0505E 52	ABL2004E 7
ABL1001E 1	ABL2101E 7
ABL1003E 1	ABL2102E 7
ABL1005E 2	ABL2103E 8
ABL1006E 2	ABL2104E 8
ABL1008E 2	ABL2105E 8
ABL1009E 2	ABL2106E 8
ABL1010E 2	ABL2201E 8
ABL1011E 3	ABL2202E 8
ABL1012E 3	ABL2204E 8
ABL1013E 3	ABL2205E 8
ABL1101E 3	ABL2301E 8
ABL1201E 3	ABL2302E 9
ABL1202E 3	ABL2303E 9
ABL1203E 4	ABL2304E 9
ABL1301E 4	ABL2305E 9
ABL1302E 4	ABL2401E 9
ABL1303E 4	ABL2402E 9
ABL1501E 4	ABL2403E 9
ABL1502E 4	ABL2404E 9
ABL1503E 4	ABL2405E 9
ABL1601E 4	ABL2406I 10
ABL1602E 4	ABL2407E 10
ABL1603E 5	ABL2501E 10
ABL1604E 5	ABL2502E 10
ABL1701E 5	ABL2503E 10
ABL1702E 5	ABL2505E 10
ABL1703E 5	ABL2506E 10
ABL1704E 5	ABL2601E 10
ABL1705E 5	ABL2602E 10

ABL2603E	11	ABL3701E	16
ABL2604E	11	ABL3702E	16
ABL2605E	11	ABL3703E	16
ABL2606E	11	ABL3704E	16
ABL2607E	11	ABL3705E	16
ABL2701E	11	ABL5001I	17
ABL2702E	11	ABL5002E	17
ABL2703E	11	ABL5003I	18
ABL2704E	11	ABL5101E	18
ABL2705E	12	ABL5102E	18
ABL2706E	12	ABL5103E	18
ABL2707E	12	ABL5104E	18
ABL2708E	12	ABL5105E	18
ABL2709I	12	ABL5106E	18
ABL2710I	12	ABL5107E	18
ABL2801E	12	ABL5108E	19
ABL2802E	12	ABL5109E	19
ABL2803E	12	ABL5110E	19
ABL2804E	13	ABL5111E	19
ABL2901E	13	ABL5112E	19
ABL2902E	13	ABL5113E	19
ABL2903E	13	ABL5114E	19
ABL2904E	13	ABL5115E	19
ABL3001E	13	ABL5116E	19
ABL3002E	13	ABL5117E	20
ABL3003E	13	ABL5118E	20
ABL3004E	13	ABL5201E	20
ABL3005E	14	ABL5202E	20
ABL3101E	14	ABL5203I	20
ABL3102E	14	ABL5204I	20
ABL3201E	14	ABL5205E	20
ABL3202E	14	ABL5207E	20
ABL3203E	14	ABL5208E	20
ABL3302E	14	ABL5209E	21
ABL3303E	14	ABL5210I	21
ABL3400E	15	ABL5301E	21
ABL3401E	15	ABL5302E	21
ABL3402E	15	ABL5303I	21
ABL3403E	15	ABL5304I	21
ABL3404E	15	ABL5307E	21
ABL3405E	15	ABL5308E	21
ABL3406E	15	ABL5401E	22
ABL3407E	15	ABL5402I	22
ABL3408E	15	ABL5403I	22
ABL3409E	16	ABL5404I	22
ABL3410E	16	ABL5405I	22

ABL5501I	22	ABL5913I	28
ABL5601I	22	ABL5914I	28
ABL5701E	22	ABL5915I	28
ABL5702E	22	ABL5916I	28
ABL5703E	23	ABL5917I	28
ABL5705E	23	ABL5918I	28
ABL5706E	23	ABL5919I	28
ABL5708E	23	ABL5920E	28
ABL5709E	23	ABL5921E	28
ABL5710E	23	ABL5922E	29
ABL5711E	23	ABL5924E	29
ABL5712E	23	ABL5927E	29
ABL5713E	23	ABL5928E	29
ABL5714E	24	ABL5929E	29
ABL5716E	24	ABL5930E	29
ABL5801E	24	ABL5931E	29
ABL5802E	24	ABL5932E	29
ABL5804E	24	ABL5934E	29
ABL5820E	24	ABL5935E	30
ABL5822E	24	ABL6002E	30
ABL5823E	24	ABL6003E	30
ABL5824E	24	ABL6004I	30
ABL5825E	25	ABL6005I	30
ABL5826E	25	ABL6101E	30
ABL5828E	25	ABL6102E	30
ABL5832E	25	ABL6103E	31
ABL5836E	25	ABL6201E	32
ABL5837E	25	ABL6202E	32
ABL5838I	25	ABL6203E	32
ABL5839E	25	ABL6204E	32
ABL5840EI	26	ABL6205E	32
ABL5841E	26	ABL6206E	32
ABL5842E	26	ABL6207E	32
ABL5843E	26	ABL6208E	32
ABL5844E	26	ABL6209E	33
ABL5901E	26	ABL6210E	33
ABL5902E	26	ABL6211E	33
ABL5903E	26	ABL6301E	33
ABL5904E	27	ABL6302E	33
ABL5905E	27	ABL6303E	33
ABL5906E	27	ABL6304E	33
ABL5907E	27	ABL6305I	33
ABL5909I	27	ABL6306E	33
ABL5910I	27	ABL6402E	34
ABL5911I	27	ABL6403I	34
ABL5912I	27	ABL6404I	34

ABL6405E 34
ABL6406E 34
ABL6407I 34
ABL6501E 34
ABL6502E 34
ABL6503E 35
ABL6601I 52
ABL6602I 53
ABL6603I 53
ABL6604I 53
ABL6605I 53
ABL6606I 53
ABL6607I 53

C

command screen messages 17
comments
 sending iv
console messages 37
contacting IBM iv

E

error messages
 for command panels 17
 for menus and panels 1
 on console 37

I

IBM legal notices 57

L

legal notices 57

M

maintenance messages 47
messages
 for command panels 17
 for menus and panels 1
 on console 37

N

notices 57
notifier messages
 for command panels 17
 for menus and panels 1
 on console 37

T

Technical Support Checklist 55
trademarks 57

Sending your comments to IBM

If you especially like or dislike anything about this book, please use one of the methods listed below to send your comments to IBM.

Feel free to comment on what you regard as specific errors or omissions, and on the accuracy, organization, subject matter, or completeness of this book.

Please limit your comments to the information in this book and the way in which the information is presented.

To ask questions, make comments about the functions of IBM products or systems, or to request additional publications, contact your IBM representative or your IBM authorized remarketer.

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.

You can send your comments to IBM in any of the following ways:

- By mail, to this address:

User Technologies Department (MP189)
IBM United Kingdom Laboratories
Hursley Park
WINCHESTER,
Hampshire
SO21 2JN
United Kingdom

- By fax:

- From outside the U.K., after your international access code use 44-1962-816151
- From within the U.K., use 01962-816151

- Electronically, use the appropriate network ID:

- IBM Mail Exchange: GBIBM2Q9 at IBMMAIL
- IBMLink: HURSLEY(IDRCF)

- Internet: idrcf@hursley.ibm.com

Whichever you use, ensure that you include:

- The publication title and order number
- The topic to which your comment applies
- Your name and address/telephone number/fax number/network ID.