IAS Master Index and Documentation Directory

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Preface

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1 Documentation Directory

This chapter describes the organization of the documentation set. It also identifies the audience for each document.

The IAS documentation set is divided into seven volumes:

- Volume 1: System Management
- Volume 2: User References
- Volume 3: Utilities
- Volume 4: Program Development
- Volume 5: Executive
- Volume 6: System Services
- Volume 7: Record Management Services

The documentation directory is aimed at four audiences:

- System managers—who are responsible for overall system generation and system management
- Operators—who handle routine system operation under the system manager's direction
- System programmers—who program special I/O devices and/or do real-time programming
- Applications programmers—who usually program in high-level languages such as FORTRAN, BASIC, COBOL, or CORAL.

1.1 Audience Guide

This section lists the documents contained in each volume and identifies the audience for each document.

Table 1–1 IAS Audience Guide

Volume	Document Title	System Manager	Operator	System Programmer	Applications Programmer
Volume 1: System Management	Release Notes	X	X	X	X
	IAS Installation and System Generation Guide	X	X	X	X
	IAS System Management Guide	X	X	X	
	IAS Performance and Tuning Guide	X		X	
	IAS Master Index and Documentation Directory	X	X	X	X

Table 1–1 (Cont.) IAS Audience Guide

Volume	Document Title	System Manager	Operator	System Programmer	Applications Programmer
Volume 2: User References	PDS User's Guide	X	X	X	X
	MCR User's Guide	X	X	X	X
	IAS Indirect Command Processor Reference Manual	X	X	X	X
Volume 3: Utilities	RSX-11/MM-PLUS Utilities Manual			X	X
	EDT Editor Manual	X	X	X	X
	PDP-11 Keypad Editor User's Guide	X	X	X	X
	IAS PDP-11 SORT/MERGE Installation Guide and Release Notes	X	X		
	PDP-11 SORT/MERGE User's Guide			X	X
Volume 4: Program Development	IAS Guide to Program Development			X	X
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	IAS ODT Reference Manual			X	X
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	IAS I/O Operations Reference Manual			X	X
	IAS Executive Facilities Reference Manual	X		X	X
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	IAS System Directives Reference Manual			X	X
	IAS FORTRAN Special Subroutines Reference Manual			X	X
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Volume 7: Record Management Services	RMS-11: An Introduction	X	X	X	X
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	RSX/RMS-11 User's Guide			X	X
	RSX-11M/M-PLUS RMS-11 Utilities Manual			X	X

1.2 Description of the Manuals

This section gives a brief overview of what each manual in the documentation set contains.

1.2.1 IAS V3.4 Release Notes (AA-HC69D-TC)

The release notes introduce Version 3.4 and describe the changes made and new features added to IAS since Version 3.3. They also identify software problems that were resolved from the previous version as well as known problems and restrictions in the new version.

1.2.2 Installation and System Generation Guide (AA-2519F-TC)

This document is for system managers, operators, system programmers, and applications programmers. It is divided into two parts. The first part explains how to install IAS. It includes sections on copying the distribution files, configuring the terminal handler, configuring the hardware and memory, and building the system and system generation.

The second part explains how to tailor the system. It includes sections on tuning the system, configuring the timesharing executive, modifying DCL and system tasks, and system start-up procedures.

1.2.3 IAS Master Index and Documentation Directory (AA-J030D-TC)

The master index provides a compilation of the index entries from all the manuals in the IAS documentation set. The documentation directory gives a synopsis of each manual and identifies its audience.

1.2.4 System Management Guide (AA-2520F-TC)

This guide for system managers describes fundamental system concepts and explains how they can establish and dynamically control the system. It is divided into three parts. The first is a tutorial that covers basic concepts, executing tasks, setting up system parameters, operating the system, managing devices, volumes, and files, and authorizing and controlling user privileges.

The second part deals with error handling, including core dump analyzer, error logging, memory parity support, and shadow recording.

The third part summarizes PDS and SCI commands (and the corresponding MCR commands).

System managers should use this guide along with the *IAS Installation and System Generation Guide* and the *IAS Performance and Tuning Guide*.

1.2.5 Performance and Tuning Guide (AA-H848C-TC)

This guide for system managers gives advice and general guidelines for improving the overall performance of their IAS system. It provides an overview of performance and tuning considerations and describes how to save memory by sensibly selecting features at system generation. It also gives advice about using memory and disks efficiently and about tailoring the file system and tuning the IAS scheduler.

1.2.6 IAS PDS User's Guide (AA-H003C-TC)

This user's guide introduces users to the Program Development System (PDS), which is the IAS implementation of the Digital Command Language (DCL). It assumes no prior knowledge of IAS. The user's guide explains keyboard operation, issuing PDS commands, batch processing, file handling, and IAS editors. It also explains how to use five languages: BASIC-11, COBOL, FORTRAN, MACRO-11, and CORAL 66. It contains a summary of PDS commands as well.

1.2.7 IAS MCR User's Guide (AA-H006C-TC)

This user's guide introduces users to the basic concepts of the Monitor Console Routine (MCR) and describes MCR as the terminal interface with the IAS operating system. It is for users familiar with RSX/11D who want to retain the MCR user/system interface under IAS.

The user's guide identifies two kinds of users: privileged and nonprivileged. It explains the functions available to the privileged user, which let them control and modify the system. It also explains the functions available to the nonprivileged users, which restrict them to developing and maintaining programs.

1.2.8 IAS Indirect Command Processor Reference Manual (AA-PAXUA-TC)

This reference manual describes Indirect, the task that runs indirect Monitor Console Routine (MCR) command files and performs other programming and system-control functions. It discusses the different kinds of indirect command files and their uses. It also describes Indirect's directives and special symbols and how to use them. The reference manual is for anyone who is interested in learning about the Indirect Command Processor and how to use it.

1.2.9 RSX-11M/M-PLUS Utilities Manual (AA-FD13A-TC)

This reference manual describes how to use fifteen utilities supported on the RSX-11M and RSX-11M-PLUS operating systems.

1.2.10 EDT Editor Manual (AA-M476A-TC)

This manual describes the DEC Editor, EDT Version 3.0. The introductory section lists the important features of EDT Version 3.0. The rest of the manual describes line, keypad, and nokeypad editing; file protection; command lines and command files; error messages; and ASCII character codes. It includes a sample editing session as well. The manual also contains a summary of the new features and technical changes between EDT Version 2.0 and 3.0.

1.2.11 PDP-11 Keypad Editor User's Guide (AA-H853B-TC)

This manual describes how to use the keypad editors KED and K52. The keypad editors are text-file editors designed for use with terminals that have special-function keypads (VT100-or VT52-type terminals).

1.2.12 IAS PDP-11 SORT/MERGE Installation Guide and Release Notes (AA-PAXWA-TC)

This document tells system managers how to install PDP-11 SORT/MERGE on IAS Version 3.4.

1.2.13 PDP-11 SORT/MERGE User's Guide (AA-CI67A-TC)

This user's guide describes the features and operation of the SORT utility program. The utility sorts data files into ascending or descending order. Appendix E explains how to install SORT.

1.2.14 IAS Guide to Program Development (AA-PAXVA-TC)

This manual introduces the program development environment on the IAS operating system. It provides a synopsis of the information immediately useful in getting started in the program development process. The manual also gives an overview of the software environment and some guidelines for designing programs.

This manual is for someone who is already familiar with the general, basic operatins of an IAS system. Those operations include gaining access to the system, using the terminal and related devices, and requesting simple Executive services through the command interface. Most of the manual deals with assembly language programming. However, most of the topics covered for the assembly language programmer also apply to programmers using any other computer language.

1.2.15 IAS Task Builder Reference Manual (AA-2533E-TC)

This reference manual introduces system programmers and applications programmers to IAS task building. It describes the task builder and the overlay description language. It contains operational information and programmer reference information.

1.2.16 PDP-11 MACRO-11 Language Reference Manual (AD-KX10A-TC)

This reference manual for system programmers and applications programmers presents the assembler language supported by IAS and RSX-11. It also discusses suggested programming standards (and the benefits the user can derive from using them), operating procedures, and methods of writing position-independent code.

1.2.17 IAS ODT Reference Manual (AA-M507B-TC)

This reference manual describes the On-Line Debugging Tool (ODT), used to debug user task images on IAS systems. It provides reference information on all ODT commands. It also gives information on how to use the commands to debug user task images. This reference manual is for system programmers and applications programmers.

1.2.18 IAS Guide to Writing Command Language Interpreters (AA-D120D-TC)

This guide is for system programmers and applications programmers who need to write their own nonstandard Command Language Interpreters (CLIs). It describes the general concepts of CLIs and provides guidelines for writing them. The guide also discusses the IAS timesharing control services (TCS) and contains descriptions of all TCS macros.

1.2.19 IAS Device Handler Reference Manual (AA-H004B-TC)

This manual describes the functions performed by the device handler tasks that service the standard peripheral devices supported by the IAS system. It is for system managers and system programmers.

1.2.20 IAs Guide to Writing a Device Handler Task (AA-H278C-TC)

This reference manual is for system programmers who work with IAS operating systems. It gives them the information they need to create a device handler task for a peripheral I/O device that is not part of the standard system hardware configuration.

1.2.21 IAS I/O Operations Reference Manual (AA-M176B-TC)

This reference manual provides information to applications programmers who use the IAS file control system. It describes each macro call for performing logical I/O operations and file control functions. It also describes the file structure for disk and magnetic tape devices.

1.2.22 IAS Executive Facilities Reference Manual (AA-H005B)

This reference manual describes the facilities that are available thorugh the IAS Executive as well as hardware memory management and memory mapping facilities. It also discusses IAS system organization, services, and important components of the system data structure. The reference manual is for system managers, system programmers, and applications programmers.

1.2.23 IAS System Library Routines Reference Manual (AA5580C-TC)

This reference manual describes the system library routines the experienced MACRO-11 programmer can call from MACRO-11 assembly language programs. It discusses both the use and the functions of those routines.

1.2.24 IAS System Directives Reference Manual (AA-H002C-TC)

System directives allow experienced MACRO-11 and FORTRAN programmers to use IAS Executive services to control the execution and interaction of tasks. This reference manual describes each system directive. It also discusses the concepts of extended logical address space, regions, and virtual address windows.

1.2.25 IAS FORTRAN Special Subroutines Reference Manual (AA-H001B-TC)

This reference manual is for FORTRAN programmers who need to call IAS subroutines from a FORTRAN program. It describes IAS FORTRAN special subroutines and discusses their use in performing process control and system directive operations.

1.2.26 IAS/RSX-11D Diagnostics Reference Manual (AA-3057D-TC)

This reference manual describes diagnostic tasks for disks, magnetic tape drives, DECtape drives, and terminal devices. It also includes the operational information needed to invoke the tasks. This reference manual is for system managers and Digital Field Service engineers to use when diagnosing hardware malfunctions.

1.2.27 RMS-11: An Introduction (AA-L682A-TC)

This manual introduces the concepts, operations, and utilities of Record Management Services for PDP-11 operating systems (RMS-11).

1.2.28 RMS-11 Programmer's Manual (AA-L668A-TC)

This manual describes the MACRO-11 interface to the Record Management Services (RMS-11). It describes MACRO calls for creating sequential, relative, and indexed files, and for manipulating the records within those files.

1.2.29 RSX/RMS-11 User's Guide (AA-L669A-TC)

This user's guide provides information on file and task design using RMS-11. The information includes design considerations for writing application programs in both MACRO-11 and high-level.

1.2.30 RSX-11M/M-PLUS RMS-11 Utilities Manual (AAL670A-TC)

This manual describes the RMS-11 Utility programs: RMSDES, RMSIFL, RMSCNV, RMSDSP, RMSBCK, and RMSRST. It describes RMSDEF, which RMSDES superseded, in an appendix.

2 Master Index

This chapter contains the Master Index, which contains all the index items in the IAS documentation set. You can consult the Master Index instead of going to a specific manual to look up items.

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