V6
Aug '7 *

RSTS/E
Documentation Directory

DEC-11-ORDAA-A-D

The HOW TO OBTAIN SOFTWARE INFORMATION pages, located at the back of this document, explain the various services available to Digital software users.

The postage prepaid READER'S COMMENTS form on the last page of this document requests the user's critical evaluation to assist us in preparing future documentation.

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RSTS/E DOCUMENTATION DIRECTORY

RSTS/E software consists of distribution media and documentation.
The documentation describes the components and operation of the
RSTS/E software. This directory describes the RSTS/E documentation.

1.0 ORGANIZATION OF THE DOCUMENT SET

The RSTS/E document set is logically divided into 5 categories, as
follows:

    system reference
    system procedures
    system management and maintenance
    languages
    optional software

Table 1 lists the manuals by category and indicates the intended
audience of each manual.

Table 1
RSTS/E Documentation Set

Category	Document Title	Audience		
		System Manager	System Programmer	General User
System Reference	RSTS/E Document Directory	X	X	X
	RSTS/E Programming Manual		X	
	RSTS/E System Generation Manual	X	X	
System Procedures	RSTS/E System Manager's Guide	X	X	
	RSTS-11 System User's Guide	X	X	X
	RSTS/E RUNOFF User's Guide			X
	DOS/BATCH Text Editor (EDIT) Programmer's Manual		X	X
	PDP-11 ROLLIN Utility Programmer's Manual	X	X	
System Management and Maintenance	System Generation Manual	X	X	
	RSTS/E System Installation Notes	X	X	
	RSTS/E System Reliability Test	X	X	
	RSTS/E System Manager's Guide	X	X	

Table 1 (Cont.)
RSTS/E Documentation Set

Category	Document Title	Audience		
		System Manager	System Programmer	General User
Languages	BASIC-PLUS Language Manual		X	X
	PDP-11 COBOL Language Reference Manual		X	X
	PDP-11 COBOL User's Guide		X	X
	PDP-11 COBOL Language Reference Card		X	X
Optional Software	PDP-11 SORT User's Guide			X
	RSTS/E Commercial User's Guide		X	
	RSTS/E 2780 User's Guide		X	
	RSTS-11 Sort User's Guide		X	

2.0 DOCUMENT DESCRIPTION

The following paragraphs summarize the information contained in each
manual in the document set. The first four documents are listed in
the recommended reading order for the system manager. The remaining
documents can be read in any order that is suitable to one's interests.

       RSTS/E System Generation Manual
       RSTS/E System Installation Notes
       RSTS/E System Reliability Test
       RSTS/E System Manager's Guide
       RSTS-11 System User's Guide
       BASIC-PLUS Language Manual
       RSTS/E Programming Manual
       RSTS/E RUNOFF User's Guide
       DOS/BATCH Edit
       PDP-11 ROLLIN
       PDP-11 COBOL Language Reference Manual
       PDP-11 COBOL User's Guide
       PDP-11 COBOL Reference Card
       PDP-11 SORT User's Guide
       RSTS/E Commercial User's Guide
       RSTS/E 2780 User's Guide
       RSTS-11 Sort User's Guide

2.1 RSTS/E System Generation Manual (DEC-11-ORGNA-A-D)

This manual describes the complete procedures to generate the V06A-02
RSTS/E system image, initialize system structures, and build the system
library. Also included are procedures to build optional RSTS/2780
and PDP-11 COBOL software. Because RSTS/E supports a variety of hard-
ware and offers many optional software features, the manual also contains
reference information useful for planning and maintaining the system.
Especially important are the system initialization options. They are
used both to optimize system structures and to maintain and restructure
the system.

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2.2 RSTS/E System Installation Notes (DEC-11-ORINB-C-D)

This document contains system code and library code patches and hardware and software installation guidelines related to the version of RSTS/E. The information is required for generating RSTS/E.

2.3 RSTS/E System Reliability Test (DEC-11-ORSRB-B-D)

This document describes the procedures to build system test files and run device exerciser programs. The document is designed to be used with the RSTS/E System Generation Manual.

The system test procedures are followed after a new RSTS/E system is generated or can be used later to isolate hardware or system software malfunctions.

2.4 RSTS/E System Manager's Guide (DEC-11-ORSMD-A-D)

This guide is directed to the individual who administrates and controls the local installation. It contains information on utilization of hardware and software resources. The material is more detailed than that presented in the RSTS/11 System User's Guide and is directed more at the privileged user than at the non-privileged user. Also included are the operational procedures necessary to daily functioning of the system. Included are guidelines for controlling system start up, shut down, and job execution; procedures for creating accounts and producing account statistics; procedures for queue management and spooling, for system error detection and correction; and for system utility operations such as disk management, run time system control, system statistics, terminal characteristics, and optimizing disk directories.

2.5 RSTS-11 System User's Guide (DEC-11-ORSUA-D-D)

This guide is directed at the time sharing user. Information on system commands and system programs is provided. Most functions described are non-privileged and the material is general in nature. Also included are device operating procedures.

2.6 BASIC-PLUS Language Manual (DEC-11-ORBPB-A-D)

This manual introduces the beginning user to the more elementary parts of the BASIC-PLUS language and explains for the experienced user the more advanced features of BASIC-PLUS as implemented in Version V6A of RSTS/E. Procedures are explained to help a user debug a program and to write more advanced code. The more commonly used system functions are described along with the three forms of input/output available: formatted ASCII, virtual core, and Record I/O. The manual is a complement of the RSTS/E Programming Manual.

2.7 RSTS/E Programming Manual (DEC-11-ORPMA-A-D)

This manual presents device dependent features and more complex system function descriptions for the advanced programmer who uses RSTS/E V06A. Both file structured and non-file structured operations are described for disk, magnetic tape, paper tape, terminals, and line printers. The system function calls to monitor are defined and programming conventions explained.

2.8 RSTS/E RUNOFF User's Guide (DEC-11-URUNA-B-D)

This guide presents operating and preparation information for the RSTS/E V06A text formatting system program RUNOFF. The manual describes RUNOFF commands and their effect in the output text and shows how to produce a formatted output file.

2.9 DOS/BATCH Text Editor (EDIT) Programmer's Manual (DEC-11-UEDAA-A-D)

This manual describes file creation, editing and manipulating procedures for the EDIT-11 program which is compatible with the RSTS/E EDIT system program. The commands and operating procedures are defined in this manual and summarized in the RSTS-11 System User's Guide for EDIT.

2.10 PDP-11 ROLLIN Utility Programmer's Manual (DEC-11-OROAA-B-D)

This manual describes the commands and operating procedures for making image mode copies of disks or for transferring images to and from tape using the stand alone program ROLLIN.

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2.11 PDP-11 COBOL Language Reference Manual[1] (DEC-11-LCOBA-B-D)

This manual describes the COBOL Language elements as implemented on
the PDP-11. It is based on the document American National Standard
COBOL, X3.23 - 1974, both for organization and content. Descriptions
of PDP-11 extensions to the standard language are shaded.

2.12 PDP-11 COBOL User's Guide[1] (DEC-11-LCUGA-A-D)

This guide is a companion document to the PDP-11 COBOL Language
Reference Manual. It contains additional information on the compiler,
the run time system utility programs and a complete list of COBOL
error messages.

2.13 PDP-11 COBOL Reference Card[1] (DEC-11-LCRCA-A-D)

The card is a handy pocket reference containing the COBOL statement
formats, a list of the compiler-reserved words, constants, picture
symbols, and an ASCII code chart.

2.14 PDP-11 SORT Reference Manual[1] (DEC-11-USTMA-A-D)

This manual describes the features and operation of the PDP-11 SORT
program distributed with the COBOL compiler and object time system.

2.15 RSTS/E Commercial User's Guide[1] (DEC-11-ORCUA-A-D)

This guide describes generation and operation of the RSTS/E Indexed
Access Method (IAM) and the commercial QUE and LPSPL programs. Also
described is the decimal 4-word arithmetic package.

2.16 RSTS-11 Sort User's Guide (DEC-ORSGA-A-D)

This guide describes the generation and operation of the RSTS-11 Sort
programs distributed with the RSTS/E Commercial User's package. The
Sort programs are coded in BASIC-PLUS and stored in the system library
as compiled (BAC) files. Also included in the guide are file formats,
error messages, program interfaces, key extraction technique, and the
use of the key file dump utility.

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[1]Available under separate license.

2.17 RSTS/E 2780 User's Guide (DEC-11-ORJEA-A-D)

This guide describes the operation of the RJ2780 program for users of RSTS/E systems with the RSTS/2780 software package. Included are a summary of the build procedures, a list of hardware and software options, and the steps required to send data to and receive data from a remote computer system. Features related to the 2780 environment are described in the document 2780 Remote Computer Systems Installation Notes.

HOW TO OBTAIN SOFTWARE INFORMATION

SOFTWARE NEWSLETTERS, MAILING LIST

The Software Communications Group, located at corporate headquarters in Maynard, publishes software newsletters for the various DIGITAL products. Newsletters are published monthly, and keep the user informed about customer software problems and solutions, new software products, documentation corrections, as well as programming notes and techniques.

There are two similar levels of service:

- The Software Dispatch
- The Digital Software News

The Software Dispatch is part of the Software Maintenance Service. This service applies to the following software products:

    PDP-9/15
    RSX-11D
    DOS/BATCH
    RSTS/E
    DECsystem-10

A Digital Software News for the PDP-11 and a Digital Software News for the PDP-8/12 are available to any customer who has purchased PDP-11 or PDP-8/12 software.

A collection of existing problems and solutions for a given software system is published periodically. A customer receives this publication with his initial software kit with the delivery of his system. This collection would be either a Software Dispatch Review or Software Performance Summary depending on the system ordered.

A mailing list of users who receive software newsletters is also maintained by Software Communications. Users must sign-up for the newsletter they desire. This can be done by either completing the form supplied with the Review or Summary or by writing to:

            Software Communications
            P.O. Box F
            Maynard, Massachusetts 01754

SOFTWARE PROBLEMS

Questions or problems relating to DIGITAL's software should be reported as follows:

North and South American Submitters:

Upon completion of Software Performance Report (SPR) form remove last copy and send remainder to:

            Software Communications
            P.O. Box F
            Maynard, Massachusetts 01754

The acknowledgement copy will be returned along with a blank SPR form upon receipt. The acknowledgement will contain a DIGITAL assigned SPR number. The SPR number or the preprinted number should be referenced in any future correspondence. Additional SPR forms may be obtained from the above address.

All International Submitters:

Upon completion of the SPR form, reserve the last copy and send the remainder to the SPR Center in the nearest DIGITAL office. SPR forms are also available from our SPR Centers.

PROGRAMS AND MANUALS

Software and manuals should be ordered by title and order number. In the United States, send orders to the nearest distribution center.

Digital Equipment Corporation   Digital Equipment Corporation
Software Distribution Center   Software Distribution Center
146 Main Street   1400 Terra Bella
Maynard, Massachusetts 01754   Mountain View, California 94043

Outside of the United States, orders should be directed to the nearest
Digital Field Sales Office or representative.

USERS SOCIETY

DECUS, Digital Equipment Computers Users Society, maintains a user ex-
change center for user-written programs and technical application infor-
mation. The Library contains approximately 1,900 programs for all
DIGITAL computer lines. Executive routines, editors, debuggers, special
functions, games, maintenance and various other classes of programs are
available.

DECUS Program Library Catalogs are routinely updated and contain lists
and abstracts of all programs according to computer line:

- PDP-8, FOCAL-8, BASIC-8, PDP-12
- PDP-7/9, 9, 15
- PDP-11, RSTS-11
- PDP-6/10, 10

Forms and information on acquiring and submitting programs to the DECUS
Library may be obtained from the DECUS office.

In addition to the catalogs, DECUS also publishes the following:

DECUSCOPE   -The Society's technical newsletter, published bi-monthly,
                   aimed at facilitating the interchange of technical in-
                   formation among users of DIGITAL computers and at dis-
                   seminating news items concerning the Society. Circula-
                   tion reached 19,000 in May, 1974.

PROCEEDINGS OF   -Contains technical papers presented at DECUS Symposia
THE DIGITAL   held twice a year in the United States, once a year
EQUIPMENT USERS   in Europe, Australia, and Canada.
SOCIETY

MINUTES OF THE   -A report of the DECsystem-10 sessions held at the two
DECsystem-10   United States DECUS Symposia.
SESSIONS

COPY-N-Mail   -A monthly mailed communique among DECsystem-10 users.

LUG/SIG   -Mailing of Local User Group (LUG) and Special Interest
                   Group (SIG) communique, aimed at providing closer
                   communication among users of a specific product or
                   application.

Further information on the DECUS Library, publications, and other DECUS
activities is available from the DECUS offices listed below:

DECUS   DECUS EUROPE
Digital Equipment Corporation   Digital Equipment Corp. International
146 Main Street   (Europe)
Maynard, Massachusetts 01754   P.O. Box 340
                                       1211 Geneva 26
                                       Switzerland

READER'S COMMENTS

NOTE: This form is for document comments only. Problems
        with software should be reported on a Software
        Problem Report (SPR) form (see the HOW TO OBTAIN
        SOFTWARE INFORMATION page).

Did you find errors in this manual? If so, specify by page.

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Did you find this manual understandable, usable, and well-organized?
Please make suggestions for improvement.

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Is there sufficient documentation on associated system programs
required for use of the software described in this manual? If not,
what material is missing and where should it be placed?

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_____

Please indicate the type of user/reader that you most nearly represent.

☐ Assembly language programmer
☐ Higher-level language programmer
☐ Occasional programmer (experienced)
☐ User with little programming experience
☐ Student programmer
☐ Non-programmer interested in computer concepts and capabilities

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