GUIDE TO MULTICS MANUAL

SUBJECT
Description of the Contents of All Multics Manuals Including Lists Showing Where Individual Modules are Documented

SPECIAL INSTRUCTIONS
This publication supersedes the previous edition of the manual. Order No. AN50-07, dated February 1984. This document does not contain marginal change indicators (change bars and asterisks).

SOFTWARE SUPPORTED
Multics Software Release 11.0

ORDER NUMBER
AN50-08

July 1985
Honeywell
This manual is a comprehensive guide to the complete set of Multics manuals. It helps users who are new to the system find out what manuals are available, and the brief content descriptions help them decide what manuals they need. It also helps those users who are already familiar with the system locate the detailed description of a particular module (i.e., command, subroutine, active function, I/O module, function, or data base).

The purpose of this manual is to provide users with a convenient means of referencing the increasing amount of information available to them on Multics.

Suggestions and additions to improve this manual in future revisions are welcomed. Please use the User Remark Form in the back of this manual for those comments.

The following manuals are new as of Multics Release 11.0:

Multics System Administration Procedures, Order No.: AK50–03
Multics System Maintenance Procedures, Order No.: AM81–03
Multics Administration, Maintenance, and Operations Commands,
Order No.: GB64–00
Multics Report Writer, Order No.: GB63–00
Fundamentals of Multics Executive Forum, Order No.: DX71–00
Multics/Personal Computer File Transfer Facilities,
Order No.: GB65–00

In addition to the MR11-specific manuals above, the following documents were issued since the last release (February 1984) of this manual.

Multics Emacs Reference Card, Order No.: GN08–00
Multics Pascal User's Guide, Order No.: GB62–00
Multics Simplified Computing and Filing Facility,
Order No.: GL71–00

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The following manuals have been obsoleted with the release of MR11. The contents of these manuals have been incorporated into the new *Multics System Administration Procedures* manual, the *Multics System Maintenance Procedures* manual, and the *Administration, Maintenance and Operations Commands* manual.

*Multics Administrator's Manual - System* (last update AK50-02B)
*Multics Operator's Handbook* (last update AM81-02C)
*Multics System Metering* (last update AN52-01B)
*Multics System Diagnostic Aids* (last update AR97-03)
*Multics Administrator's Manual - Registration and Accounting* (last update AS68-00D)
*Multics Bulk I/O* (last update CC34-01D)
*Multics Administrator's Manual - Resource Control* (CC74-00C)

Additionally, those Multics manuals identified as System Designers Notebooks (SDNs) and Programming Logic Manuals (PLMs) have been obsoleted. They include the following:

*Multics Library Maintenance SDN*, Order No.: AN80
*Message Segment Facility SDN*, Order No.: AN69
*Standards SDN*, Order No.: AN82
*Multics Communication System SDN*, Order No.: AN85
*Multics Storage System PLM*, Order No.: AN61
*System Initialization PLM*, Order No.: AN70
*Multics Reconfiguration PLM*, Order No.: AN71
*Multics User Ring Input/Output System PLM*, Order No.: AN57
*Multics Hardware and Software Formats PLM*, Order No.: AN87
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SECTION 1

DESCRIPTION OF MULTICS MANUALS

This section identifies the Multics manuals currently available and gives a brief description of each manual categorized by subject.

GETTING STARTED ON MULTICS

*New User's Introduction to Multics--Part I (CH24)*

Provides a basic introduction to the Multics system.

*New User's Introduction to Multics--Part II (CH25)*

Provides a more advanced introduction to Multics, including a basic introduction to exec_com.

*Introduction to Programming on Multics (AG90)*

Introduces the Multics environment to applications programmers who have experience on another operating system but are new to Multics.

GENERAL REFERENCE

*Multics Programmer's Reference Manual (AG91)*

Describes the overall mechanics, conventions, and usage of the Multics system. It contains general information about the Multics command and programming environments and describes the command language, storage system, and I/O system. In addition, it contains a glossary of Multics terms.

*Multics Commands and Active Functions (AG92)*

A complete reference to the standard Multics commands and active functions.

*Multics Subroutines and I/O Modules (AG93)*

A complete reference to the standard Multics subroutines, including the PL/I declare statement, calling sequence, and usage of each. It also contains a section describing standard I/O modules, including the attach description, control operations, and syntax from command level.

*Multics Commands and Active Functions Quick Reference Guide (AW17)*

Describes selected commands and active functions in an abbreviated edition. It is half the size of a standard manual and has the type of binding that permits it to lie flat while open.
Multics Error Messages: Primer and Reference Guide (CH26)

Introduction to Multics error-handling procedures; description of common faults.

Multics Common Commands (GB58)

Contains selected Multics commands that implement frequently used procedures. This document is designed for users who require concise reference information for basic command language tasks. In certain instances, the information associated with a particular command has been edited to delete descriptions of options or services not commonly used.

INSTALLATION/CONFIGURATION

Multics Installation Instructions

Provides detailed instructions for installation of Multics systems. It is made available with the system tapes and is provided by the software distribution agency.

System Maintenance Procedures (AM81)

Describes, in addition to other information, the format of all cards in the configuration deck.

Administration, Maintenance, and Operations Commands (GB64)

Describes, in addition to other commands, the BOS/BCE commands.

OPERATIONS

Operator's Guide to Multics (GB61)

Provides the practical information needed to operate Multics on a daily basis. The emphasis of this manual is on step-by-step instructions for performing the most common operator tasks. For new operators this manual will play an important part in their introduction to the system; it will help them learn about hardware and software, teach them how to communicate with Multics, and instruct them in the basics of running the system. For experienced operators this manual will serve as a handy reference; it provides useful reminders of the steps involved in the tasks performed every day.

Administration, Maintenance, and Operations Commands (GB64)

Describes those Multics commands specifically designed for use by individuals filling the roles of (1) system administrators, (2) system maintainers, and (3) system operators. This document is a reference work designed to be used together with one or more of the administrator/maintainer/operator procedural manuals (AK50, AM81, or GB61). The procedural manuals function as "how to" documents, making reference, as needed, to the specific commands required to implement the various procedures. This manual complements the procedural manuals by providing a detailed description of the commands.
ADMINISTRATION/MAINTENANCE

System Administration Procedures (AK50)

Describes the procedures used in the administration of a Multics system. Included are procedures for allocating resources, registering projects and users, creating load control groups, setting prices on resources, setting limits on and billing for resource usage, managing storage system quota, assuring system security, managing the I/O daemons, and setting of site options. Information required to manage the communications system is contained in a separate document (CC75).

System Maintenance Procedures (AM81)

Provides information required by system administrators and/or maintainers for such functions as configuration and tuning, backup and recovery, salvaging and scavenging, analyzing crashes, balancing disks, setting up I/O daemons and the message coordinator, metering and tuning, and maintaining system databases.

Administration, Maintenance, and Operations Commands (GB64)

Describes those Multics commands specifically designed for use by individuals filling the roles of (1) system administrators, (2) system maintainers, and (3) system operators. This document is a reference work designed to be used together with one or more of the administrator/maintainer/operator procedural manuals (AK50, AM81, or GB61). The procedural manuals function as "how to" documents, making reference, as needed, to the specific commands required to implement the various procedures. This manual complements the procedural manuals by providing a detailed description of the commands.

Communications Administration (CC75)

Provides information needed by system administrators for the management of the Multics communications system and communications channels.

Project Administrator's Guide (AK51)

Contains procedures specific to the duties of a project administrator. (It contains a subset of the information in AK50 and GB64.)

HARDWARE-RELATED DOCUMENTATION

Multics Processor Manual (AL39)

Describes the Level 68 and DPS-8 processors used by the Multics system. It includes processor capabilities, modes of operation, functions, machine instructions, data representation, program-addressable registers, virtual memory addressing concepts, faults and interrupts, hardware ring implementation, and cache operation.

Multics Online Test and Diagnostics Reference Manual (AU77)

Describes the online test and diagnostic capabilities of the Multics system.
TEXT EDITORS

Multics qedx Text Editor User’s Guide (CG40)
Gives a detailed description of the Multics qedx text editor, including a comprehensive discussion of the related requests and editing techniques.

Multics Text Editor (TED) Reference Manual (CP50)
Gives a detailed description of the Multics Ted Text Editor.

Introduction to Emacs Text Editor (CP31)
Provides a basic introduction to the Emacs Text Editor and a description of the most generally used editing requests of emacs fundamental mode.

Emacs Text Editor User’s Guide (CH27)
Gives a tutorial introduction to the Emacs Text Editor, fully describing the editing requests available and containing instructions for using special features of emacs.

Multics Emacs Reference Card (GN08)
Lists Emacs requests and describes each in a brief and simple format. The pocket-sized card can be placed under the keyboard or otherwise fastened to the terminal for quick reference.

Emacs Extension Writer’s Guide (CJ52)
A guide for programmers writing extensions and terminal control modules (CTLs) in the Lisp programming language for the Emacs Text Editor.

LANGUAGES

Multics PL/I Language Specification (AG94)
Provides detailed information on the syntax and semantics of Multics PL/I. This manual is useful for the programmer who is already familiar with PL/I. It is not recommended as a tool for learning the PL/I language; however, it is the final authority in the description of Multics PL/I.

Multics PL/I Reference Manual (AM83)
Describes Multics PL/I language elements, including usage examples.

Multics FORTRAN Reference Manual (AT58)
Describes the Multics FORTRAN language, including fundamental concepts and definitions of the syntactic form and meaning of each language construct.

Multics FORTRAN User’s Guide (CC70)
Provides information on the creation and debugging of Multics FORTRAN programs and on efficient techniques for using the language.
Multics BASIC Manual (AM82)

Describes the Multics BASIC language, including capabilities, rules and definitions, user interfaces, statements, and Input/Output.

Multics COBOL Reference Manual (AS44)

Describes the Multics COBOL language, including rules, syntax, formats, and usage.

Multics COBOL User's Guide (AS43)

Provides information on the creation of Multics COBOL programs and on efficient techniques for using Multics COBOL.

Multics APL (AK95)

Describes the Multics APL language.

Multics Pascal User's Guide (GB62)

Describes the use of Pascal in the Multics environment.

Multics FAST Subsystem Reference Guide (AU25)

Describes the Multics FAST subsystem, a time-sharing facility supporting BASIC and FORTRAN program development. Though the command language and repertoire of this subsystem are based on those of the Multics system, the programmer need not be familiar with Multics.

Multics DFAST Subsystem User's Guide (AT59)

Describes the Multics DFAST subsystem, a time-sharing facility supporting BASIC and FORTRAN program development. The command language and repertoire are based on the Dartmouth Time Sharing System; the programmer need not be familiar with Multics. unI

SPECIALIZED FACILITIES

Multics Extended Mail System User's Guide (CH23)

Provides a tutorial introduction to the Multics electronic mail system.

Fundamentals of Multics Executive Mail (CX20)

Explains how to use the Executive Mail facility.

Multics Executive Mail Editing Operations Reference Card (CX72)

Lists the set of keystrokes available for editing messages.
Multics Relational Data Store (MRDS) Reference Manual (AW53)

Describes the functions and subroutine interfaces to the part of the Multics database manager that supports the relational type of database organization. This manual is a combined database primer and reference manual.

Logical Inquiry and Update System (LINUS) Reference Manual (AZ49)

Describes the Multics logical inquiry and update system (linus), a facility used to access Multics relational data store databases and to prepare data for report generation.

Multics Menu Creation Facilities (CP51)

Describes the facilities available for the creation of menu interfaces to existing software programs.

Inter-Multics File Transfer (IMFT) Reference Guide (CY73)

Describes the facility used to transfer files and subtrees between Multics systems.

Multics Forum Interactive Meeting System User's Guide (CY74)

Describes the Multics interactive meeting system.

Fundamentals of Multics Executive Forum (DX71)

Describes the procedures required to use the Executive Forum facility. This facility uses a menu interface to permit nontechnical users easy access to a subset of Forum functions.

Guide to Multics WORDPRO for New Users (DJ18)

Provides a tutorial introduction to the Multics word processing system (WORDPRO). The manual requires no previous knowledge of Multics or experience in using word processing tools.

Multics WORDPRO Reference Guide (AZ98)

Describes the Multics word processing system (WORDPRO), including text editor, Speedtype, text composer, dictionaries for hyphenation and spelling, list processing, and electronic mail.

Multics Report Program Generator (MRPG) Reference Manual (CC69)

Defines the Multics Report Program Generator (MRPG) language used to prepare, generate, and execute programs that produce formatted reports.

Multics SORT/MERGE (AW32)

Describes the generalized file sorting and file merging capability on the Multics system. Relevant commands and subroutines are included.
GCOS Environment Simulator (AN05)

Provides an introduction to the GCOS Batch and Time Sharing Environment Simulator and instructions for using it.

Multics Page Processing System Utility Manual (CJ97)

Gives a description of software for the support of the PPS on Multics.

Multics Graphics System (AS40)

Describes the Multics graphics system. This primer/reference manual includes information on commands and subroutines used to create, edit, store, display, and animate graphics constructs.

DPS 6 Multics Satellite 6M Reference Manual (GB59)

Contains the information needed to use the Satellite 6M product and how to configure Satellite 6M software on both the DPS 6 and Multics. It is intended for users and system administrators alike.

Multics HASP Service and Utility Manual (GB60)

Describes the Multics facility for communicating with foreign remote job entry workstations and computer systems utilizing the HASP protocol.

Multics/Personal Computer File Transfer Facilities (GB65)

Describes the facilities available for transferring files between personal computers and a host Multics system. Protocols supported include the Kermit, the XMODEM, and the IBM PC-to-PC communications protocols.


Describes the facility available for producing formatted reports from user data.

Multics Simplified Computing and Filing Facility (GL71)

Describes the Multics Simplified Filing Facility and the Multics Spreadsheet Program. The filing facility enables users to simulate a card file. The spreadsheet facility enables users to enter problem data on an electronic spreadsheet and then use the automated computing facilities to generate "answers" based on changing variables.
SECTION 2
LIST OF MODULES

This section lists, alphabetically, all the currently documented Multics modules. Some modules are documented in more than one manual and, therefore, they will occur in the list more than once.

The abbreviated name of the module is shown in braces, for instance:

login {}

In some cases, additional information about the module is given in parentheses immediately following the module name or the abbreviated version of the module name; for instance:

add_dict_words {adw} (dictionary)

identifies that the module has a short name and that it is used specifically as a dictionary module within the WORDPRO subsystem.

----- MISCELLANEOUS -----

----- % -----  
%global Statement FORTRAN Reference Manual AT58
%include Statement FORTRAN Reference Manual AT58
%options Statement FORTRAN Reference Manual AT58

----- + -----  
++ABSIN (rje) Reference Manual AG91
++AIM (bulk data) Reference Manual AG91
++CONTROL Reference Manual AG91
++CONTROL (bulk data) Reference Manual AG91
++DATA (bulk data) Reference Manual AG91
++EPILOGUE (rje) Reference Manual AG91
++FORMAT Reference Manual AG91
++FORMAT (bulk data) Reference Manual AG91
++FORMAT and ++INPUT (rje)
++IDENT
++INPUT
++INPUT (bulk data)
++PASSWORD (bulk data)
++PASSWORD (rje)
++RJE (rje)
++RJEARGS (rje)
++RJECONTROL (rje)

----- 0 -----  
029 and 963 (preaccess)
----- A -----  
abbrev {ab}
abbrev {ab}
abbrev
abbrev_$abbrev_
abbrev_$expanded_line
abbrev_$set_cp
ABS (BOS)
abs (built-in)
abs (built-in)
abs (Initializer)
absolute_pathname_
absolute_pathname_$add_suffix
accept (Initializer)
accept_messages {am}
accept_messages {am}
accepting
access_class (preaccess)
acquire_resource {aqr}
active_fnc_err_
active_fnc_err_$af Suppress_name
add_anon
add_bit_offset_
add_char_offset_
add_dict_words {adw} (dictionary)

add_epilogue_handler_
add_line_numbers {aln} (FAST)
add_lv {alv} (Initializer)
add_mail_table_entry
add_name {an}
add_name {an}
add_name {an} (FAST)
add_pdir_volume (Initializer)
archive_Sget_component
archive_Sget_component_info
archive_Slist_components
archive_Snext_component
archive_Snext_component_info
archive_sort [as]
archive_table {act}
ards (graphic device table)

area_info_
area_status
arithmetic_to_ascii_
as who
ascii_to_bcd
ascii_to_ebcdic
ascii_to_ebcdic_Sae_table
ask_

ask_Sask_
ask_Sask_c
ask_Sask_cflo
ask_Sask_cint
ask_Sask_cline
ask_Sask_clr
ask_Sask_cyn
ask_Sask_flo

ask_Sask_int
ask_Sask_line
ask_Sask_n
ask_Sask_nflo
ask_Sask_nint
ask_Sask_nline
ask_Sask_nyn
ask_Sask_prompt

ask_Sask_setline
ask_Sask_yn
assign_
assign_Scomputational_
assign_resource {ar}
assign_round_
assign_truncate_
attach (Initializer)

attach_audit {ata}
attach_lv {alv}
atended {attend} (exec)
audit_ (I/O module)
auth (exec)
auto (exec)
auto_queue
auto_start_delay (driver)

avg (built-in)
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<td>backup_load</td>
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<td>basic (FAST)</td>
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Graphics System

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Graphics System

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Additionally, there are references to various manuals and guides:

- AMOC Commands
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AG90  Introduction to Programming on Multics
AG91  Multics Programmer's Reference Manual
AG92  Multics Commands and Active Functions
AG93  Multics Subroutines and I/O Modules
AG94  Multics PL/I Language Specification
AK50  Multics System Administration Procedures
AK51  Multics Project Administrator's Guide
AK95  Multics APL
AL39  Multics Processor Manual
AM81  Multics System Maintenance Procedures
AM82  Multics BASIC
AM83  Multics PL/I Reference Manual
AN05  GCOS Environment Simulator
AN50  Guide to Multics Manuals
AS40  Multics Graphics System
AS43  Multics COBOL User's Guide
AS44  Multics COBOL Reference Manual
AT58  Multics FORTRAN Reference Manual
AT59  Multics DFAST Subsystem User's Guide
AU25  Multics FAST Subsystem Reference Guide
AU77  Multics Online Test and Diagnostics Reference Manual
AW17  Multics Commands and Active Functions Quick Reference Guide
AW32  Multics SORT/MERGE
AW53  Multics Relational Data Store (MRDS) Reference Manual
AZ49  Logical Inquiry and Update System (LINUS) Reference Manual
AZ98  Multics WORDPRO Reference Guide
CC69  Multics Report Program Generator (MRPG) Reference Manual
CC70  Multics FORTRAN User's Guide
CC75  Multics Communications Administration
CG40  Multics qedx Text Editor User's Guide
CH23  Multics Extended Mail System User's Guide
CH24  New User's Introduction to Multics--Part I
CH25  New User's Introduction to Multics--Part II
CH26  Multics Error Messages: Primer and Reference Guide
CH27  Emacs Text Editor User's Guide
CJ52  Multics Emacs Extension Writer's Guide
CP31  Introduction to Emacs Text Editor
CP50  Multics Text Editor (Ted) Reference Guide
CP51  Multics Menu Creation Facilities
CX20  Fundamentals of Multics Executive Mail
CX72  Multics Executive Mail Editing Operations Reference Card
CY73  Inter-Multics File Transfer Facility (IMFT) Reference Guide
CY74  Multics Forum Interactive Meeting System User's Guide

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