System Files and Devices Reference Manual

for Motorola Processors



Copyright 1991 UNIX System Laboratories, Inc. Copyright 1990 AT&T All Rights Reserved Printed in USA



Published by Prentice Hall, Inc. A Simon & Schuster Company Englewood Cliffs, New Jersey 07632

the publication may be reproduced or transmitted in any form or by any means—graphic, electrical, mechanical, or chemical, including photocopying, recording in any medium, taping by any computer or information storage and retrieval systems, etc., without prior permissions in which iron UNIX System Laboratories, Inc. (USL).

MPORTANT NOTE TO USERS

While every effort has been made to ensure the accuracy of all information in this document, USL assumes no liability to any party for any loss or damage caused by errors or omissions or by statements of any kind in this document, its updates, supplements, or special editions, whether such errors are omissions or statements resulting from negligence, accident, or any other cause. USL further assumes no liability arising out of the application or use of any product or system described herein; nor any liability for incidental or consequential damages arising from the use of this document. USL disclaims all warranties regarding the information contained herein, whether expressed, implied or statutory, including implied warranties of merchantability or fitness for a particular purpose. USL makes no representation that the interconnection of products in the manner described herein will not infringe on existing or future patent rights, nor do the descriptions contained herein imply the granting or license to make, use or sell equipment constructed in accordance with this description.

USL reserves the right to make changes without further notice to any products herein to improve reliability, function, or design.

TRADEMARKS

i860 is a trademark of Intel Corporation.
UNIX is a registered trademark of UNIX System Laboratories, Inc. in the USA and other countries.

The publisher offers discounts on this book when ordered in bulk quantities. For more information, write:

Special Sales
Prentice-Hall, Inc.
College Technical and Reference Division
Englewood Cliffs, New Jersey 07632
or
call 1-201-592-2498
For single copies, call 1-201-767-5937

10 9 8 7 6 5 4 3 2 1

Y-124528-E1-0 NBZI



PRENTICE HALL

ORDERING INFORMATION UNIX® SYSTEM V. RELEASE 4 DOCUMENTATION

To order single copies of UNIX® SYSTEM V, Release 4 documentation, please call (201) 767-5937.

ATTENTION DOCUMENTATION MANAGERS AND TRAINING DIRECTORS: For bulk purchases in excess of 30 copies please write to:

Corporate Sales

Englewood Cliffs, N.J. 07632

Or call: (201) 461-8441

Prentice Hall

ATTENTION GOVERNMENT CUSTOMERS: For GSA and other pricing information please call (201) 767-5994.

Prentice-Hall International (UK) Limited, London
Prentice-Hall of Australia Pty. Limited, Sydney
Prentice-Hall Canada Inc., Toronto
Prentice-Hall Hispanoamericana, S.A., Mexico
Prentice-Hall of India Private Limited, New Delhi
Prentice-Hall of Japan, Inc., Tokyo
Simon & Schuster Asia Pte. Ltd., Singapore
Editora Prentice-Hall do Brasil, Ltda., Rio de Janeiro

UNIXº SYSTEM V RELEASE 4

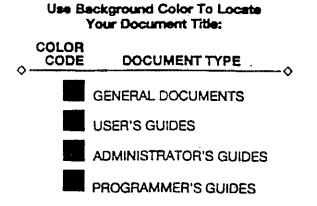
System Files and Devices Reference Manual

for Motorola Processors

The reference manual set for UNIX® System V Release 4 for Motorola Processors is the definitive source for complete and detailed specifications for all System V interfaces. Newly reorganized, this edition makes finding the manual page you need easy and fast. Each volume contains supplemental cross-references to aid those familiar with the old organization.

The new organization groups manual pages in the way most users need to use them:

- The User's Reference Manual/System Administrator's Reference Manual describes all user and administrator commands in the UNIX system, including new multiprocessing commands.
- The *Programmer's Reference Manual* describes UNIX system calls and C language library functions, including new multiprocessing interfaces.
- The System Files and Devices Reference Manual describes file formats, special files (devices), and miscellaneous system facilities.
- The Device Driver Interface/Driver-Kernel Interface Reference Manual describes functions used by device driver software. Editions of this manual are available for both uniprocessor and multiprocessor versions of the operating system.
- The Master Index provides a master permuted index for the entire reference manual set.



ISBN 0-13-587627-3 90000>





UNIX System Laboratories, Inc.

A Sussidery of AT&T

SYSTEM V APPLICATION BINARY INTERFACE

Intel i860™ Processor Supplement





SYSTEM V INTERFACE DEFINITION

Third Edition

Volume I



UNIX Software Operation

©1963, 1964, 1985, 1986, 1987, 1988, 1989 AT&T ©1985, 1987, 1988, 1989 Sun Microsystems, Inc. ©1985 Regents of the University of California All Rights Reserved

ACKNOWLEDGEMENT

ATAT gratefully acknowledges the X/Open Company Limited for permission to recorduce portions of its copyrighted X/Open Portability Guide, Issue 3.

No part of this publication may be reproduced or transmitted in any form or by any means — graphic, electronic, electrical, mechanical, or chemical, including photocopying, recording in any medium, taping, by any computer or information storage and retrieval systems, etc., without prior permissions in writing from AT&T.

IMPORTANT NOTE TO USERS

While every effort has been made to ensure the accuracy of all information in this document, AT&T assumes no liability to any party for any loss of damage caused by errors or omissions or by statements of any kind in the *System V Interface Definition*, its updates, supplements, or special editions, whether such errors are omissions or statements resulting from negligence, accident, or any other cause. AT&T further assumes no liability arising out of the application or use of any product or system described herein; nor any liability for incidental or consequential damages arising from the use of this document. AT&T disclaims all warranties regarding the information contained herein, whether expressed, implied or statutory, including implied warranties of merchantability or fitness for a particular purpose.

AT&T makes no representation that the interconnection of products in the manner described herein will not infringe on existing or future patent rights, nor do the descriptions contained herein imply the granting or license to make, use or sell equipment constructed in accordance with this description.

AT&T reserves the right to make changes without further notice to any products herein to improve reliability, function, or design.

TRADEMARKS

Ann Arbor is a trademark of Ann Arbor Terminals, Inc.

Beehive is a trademark of Beehive International.

Concept is a trademark of Human Designed Systems, Inc.

HP is a trademark of Hewlett-Packard Co.

LSI is a trademark of Lear Siegler, Inc.

Micro-Term, ACT and MIME are trademarks of Micro-Term, Inc.

NeWS is a trademark of Sun Microsystems, Inc.

PostScript is a trademark of Adobe Systems.

Tektronix and Tektronix 4010 are registered trademarks of Tektronix, Inc.

TeleVideo is a registered trademark of TeleVideo Systems, Inc.

Teleray is a trademark of Research, Inc.

TELETYPE and UNIX are registered trademarks and OPEN LOOK is a trademark of AT&T.

The X Window System is a trademark of MIT.

VT100 is a trademark of Digital Equipment Corporation.