Documents for the PWB/UNIXTime-Sharing System

Edition 1.0

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Editors

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The enclosed PWB/UNIX documentation is supplied in accordance with the Software Agreement you have with the Western Electric Company.

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CONTENTS

Each item below carries the date of its latest revision; most items also give the number of their last page.

G. General:

- G.1 PWB/UNIX—Overview and Synopsis of Facilities (6/77)
 - T. A. Dolotta and R. C. Haight (p. 18)

Summarizes the salient features of Programmer's Workbench/UNIX, a program development and text processing facility.

- G.2 The UNIX Time-Sharing System (7/74)
 - D. M. Ritchie and K. Thompson (p. 16)

Reprinted from Comm. ACM. Good overview of UNIX, but written long ago.

- G.3 The UNIX Time-sharing System—A Retrospective (1/77)
 - D. M. Ritchie (p. 14)

A more recent discussion.

- G.4 PWB Papers from the Second International Conf. on Software Engineering (10/76)
 - T. A. Dolotta et al. (p. 25)

Reprinted from that conference's proceedings. Four papers that describe various aspects of the PWB.

B. Basic User Information:

- B.0 PWB/UNIX User's Manual—Edition 1.0 (5/77)
 - T. A. Dolotta, R. C. Haight, and E. M. Piskorik, eds.

Describes all commands, subroutines, and system calls. Furnished as a separate volume. Available on-line.

- B.1 PWB/UNIX Documentation Roadmap (5/77)
 - J. R. Mashey (p. 7)

A terse, up-to-date outline of useful documents and information sources. Available on-line.

- B.2 PWB/UNIX Beginner's Course (11/77)
 - M. E. Pearlman and S. H. Strauss

An outline with view graphs.

- B.3 A Tutorial Introduction to the UNIX Text Editor (10/74)
 - B. W. Kernighan (p. 10)

Expectedly elementary, but very useful for beginners.

- B.4 Advanced Editing on UNIX (8/76)
 - B. W. Kernighan (p. 16)

Meant to help secretaries, typists, and programmers make effective use of UNIX facilities for preparing and editing text.

- B.5 PWB/UNIX Shell Tutorial (9/77)
 - J. R. Mashey (p. 25)

Describes the PWB/UNIX command interpreter.

- B.6 UNIX for Beginners (10/74)
 - B. W. Kernighan (p. 14)

A slightly dated tutorial.

- B.7 UNIX Programming (10/75)
 - B. W. Kernighan and D. M. Ritchie (p. 17)

Introduction to programming on UNIX. The emphasis is on how to write programs that interface with the operating system. Does *not* cover material in *A New Input/Output Package* (item B.10 below).

B.8 C Reference Manual (5/77)

D. M. Ritchie (p. 32)

Terse, but complete.

B.9 Programming in C—A Tutorial (5/75)

B. W. Kernighan (p. 27)

Should be read before tackling the C Reference Manual (item B.8 above).

B.10 A New Input-Output Package (7/77)

D. M. Ritchie (p. 6)

Should be used for all new C programs.

B.11 A General-Purpose Subroutine Library for PWB/UNIX (7/77)

A. L. Glasser (p. 7)

Complements A New Input/Output Package (item B.10 above).

B.12 Guide to IBM Remote Job Entry for PWB/UNIX Users (9/77)

A. L. Sabsevitz (p. 7)

Describes the RJE facility between a PWB system and an IBM System/370.

B.13 SCCS/PWB User's Manual (9/77)

L. E. Bonanni and A. L. Glasser

Describes the Programmer's Workbench Source Code Control System.

T. Text Processing, Formatting, and Typesetting:

T.1 NROFF/TROFF User's Manual (5/77)

J. F. Ossanna (p. 34)

NROFF and TROFF are text processors. NROFF formats text for a variety of typewriter-like terminals. TROFF formats text for a Graphic Systems, Inc. phototypesetter.

T.2 PWB/MM—Programmer's Workbench Memorandum Macros (9/77)

D. W. Smith and J. R. Mashey

User's guide and reference manual for PWB/MM, a general-purpose package of text formatting macros for use with NROFF and TROFF.

T.3 Typing Documents with PWB/MM (9/77)

D. W. Smith and E. M. Piskorik (p. 16)

A fold-out card that fits into a pocket(book).

T.4 PWB/MM Tutorial (12/77)

N. W. Smith

In preparation

T.5 Tbl—A Program to Format Tables (9/77)

M. E. Lesk (p. 17)

Preprocessor for TROFF or NROFF that makes even very complex tables easy to specify.

T.6 A TROFF Tutorial (8/76)

B. W. Kernighan (p. 13)

Introduction to the most basic use of TROFF (and, by implication, NROFF).

T.7 Typesetting Mathematics—User's Guide (Second Edition) (6/76)

B. W. Kernighan and L. L. Cherry (p. 11)

Describes the EQN and NEQN preprocessors for TROFF and NROFF, respectively. They allow one to typeset complex formulae, equations, arrays, etc., both in-line and displayed.

T.8 New Graphic Symbols for EQN and NEQN (9/76)

C. Scrocca (p. 8)

Defines a set of special characters frequently used in technical documents. Shows how to use them and discusses what is involved in making a special character in NROFF and TROFF.

T.9 PWB/UNIX View Graph and Slide Macros (12/77)

T. A. Dolotta and D. W. Smith

Greatly eases the task of making transparencies with TROFF.

A. Additional Facilities:

A.1 BC—An Arbitrary Precision Desk Calculator Language (5/75)

L. L. Cherry and R. Morris (p. 14)

A language and a compiler for doing arbitrary-precision arithmetic.

A.2 DC—An Interactive Desk Calculator (5/75)

R. Morris and L. L. Cherry (p. 8)

Interactive desk calculator program that does arbitrary-precision integer arithmetic.

A.3 YACC—Yet Another Compiler Compiler (5/75)

S. C. Johnson (p. 30)

Generates parsers from context-free language specifications.

A.4 LEX—Lexical Analyzer Generator (4/77)

M. E. Lesk and E. Schmidt (p. 13)

LEX helps write programs whose control flow is directed by instances of regular expressions in the input stream.

A.5 RATFOR—A Preprocessor for a Rational Fortran (1/77)

B. W. Kernighan (p. 12)

IF-ELSE, WHILE, and other useful control structures.

A.6 The M4 Macro Processor (4/77)

B. W. Kernighan and D. M. Ritchie (p. 6)

A general-purpose macro language; can be used as a preprocessor for RATFOR, C, etc.

A.7 Make—A Program for Maintaining Computer Programs (4/77)

S. I. Feldman (p. 9)

Make provides a simple mechanism for maintaining up-to-date versions of programs that result from many operations on a number of files.

I. Internals, Operations, and Administration:

I.1 Setting up PWB/UNIX (9/77)

R. C. Haight, W. D. Roome, and L. A. Wehr

Procedures used to install PWB/UNIX on the PDP-11/45 or /70 and the steps necessary to regenerate all of the PWB/UNIX programs.

I.2 Administrative Advice for PWB/UNIX (10/77)

R. C. Haight

Hints for approaching operational serenity.

I.3 PWB/UNIX Operations Manual (9/77)

M. E. Pearlman (p. 36)

Describes the daily routine at the console. Text (but not pictures) available on-line.

I.4 Repairing Damaged PWB/UNIX File Systems (10/77)

P. D. Wandzilak (p. 24)

Comes in handy after a power failure, etc.

I.5 PWB/UNIX RJE Administrator's Guide (12/77)

A. L. Sabsevitz

What to do when it breaks or when it swamps your file system.

I.6 *The UNIX I/O System* (6/74)

D. M. Ritchie (p. 9)

Describes how to write device drivers for UNIX.

I.7 On the Security of UNIX (6/74)

D. M. Ritchie (p. 4)

A short, but enlightening, discussion.

I.8 UNIX Assembler Reference Manual (6/73)

D. M. Ritchie (p. 12)

As a last resort...

I.9 PWB/UNIX Manual Page Macros (8/77)

E. M. Piskorik (p. 7)

Tells how to make PWB/UNIX User's Manual pages.

R. Recommended Reading—not Included:

R.1 Software Tools

B. W. Kernighan and P. J. Plauger (p. 338)

Addison-Wesley, Reading, MA; 1976.

R.2 The UNIX Command Language

K. Thompson

In Structured Programming—Infotech State of the Art Report. Infotech International Limited, Nicholson House, Maidenhead, Berkshire, England; 1976; pp. 375-84.

