

Unix User's Manual

Master Index



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UNIX Documents

URM	User Reference Manual	PS1:6	Berkeley Software Architecture Manual (4.3 Edition)
	man section 1 (commands)	PS1:7	Introductory 4.3BSD Interprocess Communication
	man section 6 (games)	PS1:8	Advanced 4.3BSD Interprocess Communication
	man section 7 (miscellaneous)	PS1:9	Lint, A C Program Checker
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USD:4	Introduction to the C shell	PS1:14	Source Code Control System (SCCS)
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USD:7	Mail Reference Manual	PS1:17	M4 Macro Processor
USD:8	MH Message Handling System	PS1:18	curses library
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USD:15	Introduction to Display Editing with Vi	PS2:5	The Unix I/O System
USD:16	Ex Reference Manual (Version 3.7)	PS2:6	Programming Language EFL
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USD:19	AWK - Pattern Scanning/Processing Language	PS2:9	The FRANZ LISP Manual
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USD:21	Revised Version of -ms		
USD:22	Writing Papers with nroff using -me	SMM	System Manager's Manual
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USD:24	NROFF/TROFF User's Manual	SMM:1	Installing and Operating 4.3BSD
USD:25	TROFF Tutorial	SMM:2	Building 4.3BSD Systems with Config
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USD:29	Refer - A Bibliography System	SMM:6	Line Printer Spooler Manual
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USD:31	BIB - Bibliography Formatting Program	SMM:8	Timed Installation and Operation
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USD:33	A Guide to the Dungeons of Doom	SMM:10	USENET Version B Installation
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		SMM:12	Bug Fixes and Changes in 4.3BSD
		SMM:13	Changes to the Kernel in 4.3BSD
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	man sections 2 (system calls)	SMM:15	4.3BSD Networking Implementation Notes
	man sections 3 (library routines)	SMM:16	Sendmail - An Internetwork Mail Router
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PS1:4	Berkeley Pascal User's Manual		
PS1:5	Vax Assembler Reference Manual		



Master Index

**4.3 Berkeley Software Distribution
Virtual VAX-11 Version**

April, 1986

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DOCUMENTATION ROADMAP

Don't know where to look? Start here!

For 4.3BSD, the documentation has been reorganized somewhat more rationally than before, completely retypeset and indexed. It's still in three "manual sets", one for USERS, one for PROGRAMMERS, and one for SYSTEM MANAGERS.

The USER and PROGRAMMER sets are further divided into *volumes*: a REFERENCE MANUAL (containing man pages) and volumes of SUPPLEMENTARY DOCUMENTS. The SYSTEM MANAGER set still fits in a single volume. A complete Table of Contents to the volumes follows, and there's a short-form tabular version on the inside back cover. Each volume has been assigned a TLA (three-letter-acronym):

URM	User Reference Manual (man sections 1, 6, 7)
USD	User Supplementary Documents
PRM	Programmer Reference Manual (man sections 2-5)
PS1	Programmer Supplementary Documents, part 1
PS2	Programmer Supplementary Documents, part 2
SMM	System Manager's Manual (man section 8 and Supplementary documents)

HOW TO USE THIS INDEX

Think of a word. Look it up. (Well, it isn't *that* simple.) Let's decode an example entry:

/etc/passwd find(1), groups(1), USD:4-37, passwd(5), PS2:1-12, PS2:3-15, ftpd(8c), mkpasswd(8), vipw(8), SMM:1-19,34, SMM:12-2,8..10

The references are grouped in the order of manual sets and volumes listed above. The first two entries represent the manual pages for the *find* and *groups* commands. (When the document is short or full of references to a term, the page numbers are not shown). The third entry refers to page 37 of document 4 in the USD (User Supplementary Documents) volume. The first entry in SMM shows two references within a single document. The last entry shows an individual page, and a range of pages notated *a la* Pascal.

HOW THIS INDEX WAS PREPARED

This index was prepared using an automatic indexing program written at Thinking Machines Corporation, Cambridge, MA.

To oversimplify considerably, the program finds noun phrases and orthographically marked phrases (those containing capital letters, like proper names), and after applying some expert knowledge of what should and shouldn't be included, places all occurrences of those terms consider to be worthy in an extremely hairy data structure, which eventually ends up on disk. What is actually stored is the byte offset within the formatted document.

Both the program that does the indexing, and the user interface for editing the index (adding and especially deleting terms and occurrences of terms) mainly on Lisp Machines. (The latter makes heavy use of peculiarities of the Symbolics Window System.)

The program is not an expert about UNIX† —it doesn't pretend to understand what's a *significant* occurrence of a term (for example, one which defines it, or provides new information to the reader, as opposed to merely mentioning the term in some context).

† UNIX is a trademark of Bell Laboratories.

Some fundamental problems with this approach are that occasionally a phrase that should be indexed is never actually used in the text ("Makefile" is called a "description file") or is used inconsistently ("directory file", "directory entry", "i-node", "inode") causing multiple entries to be generated for the same term.

UNIX documents have some peculiarities. There are many strange words and phrases containing special characters (e.g. filenames, names of troff macros, and C code) which a parser of normal English couldn't be expected to deal with very well. Many of these terms are immune to or violate the normal rules of English. (What's the plural of "/sys"?)

UNIX documents are often highly structured (man pages, for example), and use several different macro packages; a few documents use no macros. This makes even a question like "What is the current page number?" a difficult one to answer, since sometimes the page number is at the top of the page, sometimes at the bottom (-me macro first page), and sometimes absent entirely (-ms macro first page). (One of our objectives was to provide a page number on EVERY text page for this printing.)

The indexer was designed for free text and is thus blissfully ignorant of any particular typesetting language (e.g. troff). It also has no knowledge of sections of documents usually unindexed (Table of contents, references, the text of many examples, bugs, "see also"). (It is not too surprising, therefore, when it decides that "I. Introduction" is a proper name.)

A combination of such factors meant that although the indexer provided plenty of raw material for constructing this volume, there was a lot (weeks) of manual editing needed (mostly using the user interface to toss out bogus phrases, then to toss out bogus occurrences of otherwise reasonable phrases, then using lex/yacc/EMACS macros to reduce the volume further) to make it usable as a publication-quality index. There are still certainly unworthy occurrences of terms that should be removed. Apologies in advance for these bugs.

We are considering the question of online browsing of the documents using the basic data structures output by the indexer as a future possibility. (One of the problems that needs solution is how to correlate the byte offset of a phrase within the formatted document with that in the source.)

A few design decisions made during indexing and editing:

If possible, include some description of a term in the index.

Show only terms occurring a minimum of 3 times in the text. This yielded more than 50,000 occurrences of terms initially.

Most names of people have been removed (exception: algorithms, programs, or formulas named after their inventor).

ACKNOWLEDGEMENTS

Help was received from many people. At Thinking Machines, Paul Mott (who wrote much of the indexer) got this experiment off the ground. Shaun Keller, Craig Stanfill, and John Rose spent much time and energy hacking the indexer code and compensating for flakiness (and very bad luck) with Symbolics software. Dave Waltz continued to support the project even though it took much longer and was much more difficult than any of us anticipated. At Berkeley, the Computer Science Research Group provided both facilities and ideas; Tom Ferrin, Lou Katz, and the Board of the Usenix Association supported this project through fruition, and Peter Salus gave well-timed help and advice.

Mark Seiden

4.3BSD System Index

special characters and numbers

#define cc(1)-2, f77(1)-1, PS1:1-26, PS1:2-5,
PS1:18-8, SMM:19-26
#else PS1:1-27
#endif PS1:1-27
#if PS1:1-27
#if !defined PS1:1-27
#ifdef ctags(1), PS1:1-27
#ifdefs, removing unifdef(1)
#ifndef PS1:1-27
#include f77(1)-1, PS1:1-27, PS1:4-40
#include files hier(7)-4
#include path cc(1)-2
#line PS1:1-28
#undef PS1:1-26
\$* PS1:12-4,9
\$, dollar-sign USD:12-9
\$< PS1:12-4,9
\$? PS1:12-4
\$@ - name of the file to be made by make
PS1:12-4
\$Author PS1:13-9
\$Date PS1:13-9
\$Header PS1:13-3
\$Log PS1:13-4
%% delimiter PS1:16-2,8
%A - author's name USD:29-2
%B - book containing article USD:29-2
%C - city where published USD:29-2
%D - date of publication USD:29-2
%E - editor of book containing article USD:29-2
%H - header commentary, printed before
reference USD:29-2
%I - issuer (publisher) USD:29-2
%J - journal containing article USD:29-2
%K - keywords used to locate reference
USD:29-2
%L - label used by -k option of refer USD:29-2
%N - number within volume USD:29-2
%O - other commentary, printed at end of
reference USD:29-2
%P - page number(s) USD:29-2
%Q - corporate or foreign author (unreversed)
USD:29-2
%R - report, paper, or thesis (for unpublished

material) USD:29-2
%S - series title USD:29-2
%T - title of article or book USD:29-2
%V - volume USD:29-2
%X - abstract (used by roffbib, not by refer)
USD:29-2
& (Ampersand) USD:12-10, USD:13-6
- (see hyphen, minus)
-me macro package USD:22
-me macros, list of me(7)-1
-me macros, strings, register names, list of
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-me reference manual USD:23-1
-me, Predefined Strings in USD:23-9
-me, Writing Papers with NROFF using
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-ms and eqn USD:27-6
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-ms Macros with Troff and Nroff, Using the
USD:20-1
-ms, Number registers used in USD:20-7
-ms, refer and USD:30-10
-ms, Revised Version of USD:21-1
-ms, String registers used in USD:20-7
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SMM:5-8
- (current line) USD:12-4
- (in regular expressions) USD:13-2
- Bourne shell command sh(1)-4
.\$0 - called automatically after each call to \$p
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depth section USD:23-3
.\$C - macro called by \$c USD:23-8
.\$c - Print chapter number USD:23-8
.\$c, \$C macro called by USD:23-8
.\$f - Print footer USD:23-4
.\$h - Called at every page to print the header
USD:23-4
.\$H - called at the top of every page USD:23-4
.\$p - Print section heading USD:23-3
.\$p, \$0 called automatically after each call to
USD:23-3
.\$s - output the footnote separator USD:23-5
.(b - Begin block USD:23-4
.(c - Begin centered block USD:23-5
.(d - Begin delayed text USD:23-5
.(f - Begin footnote USD:23-5
.(l - Begin list USD:23-4
.(q - Begin major quote USD:23-4
.(x - Begin index entry USD:23-5
.(z - Begin floating keep USD:23-4

#define

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 .jc - End centered block USD:23-5
 .jd - End delayed text USD:23-5
 .jf - End footnote USD:23-5
 .jl - End list USD:23-4
 .jq - End major quote USD:23-4
 .jx - End index entry USD:23-5
 .jz - End floating keep USD:23-5
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 ../files/dbtpl7 - database template PS2:10-65
 ../files/error7 ? - files with INGRES errors
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 ../files/graf7 - GEO-QUEL login message
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 ../files/proctab7 - INGRES runtime configuration
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 ../files/startup - INGRES startup file PS2:10-72
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 .2c - Enter two-column mode USD:23-5
 .ab USD:24-26
 .ABORT PS1:5-8
 .ac - ACM mode USD:23-8
 .ad USD:24-13
 .af USD:24-17
 .am USD:24-16
 .ar - Set page number in Arabic USD:23-6
 .as USD:24-16
 .b - bold font USD:23-6
 .ba - Set the base indent USD:23-7
 .bc - Begin column USD:23-6
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 .eo USD:24-19
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 .ie USD:24-24
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 .IF - End ideal picture (alternate form)
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.rn USD:24-17
.ro - Set page number in roman numerals
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.rs USD:24-14
.rt USD:24-12
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.sh - begin numbered section USD:23-2
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.sk - Leave next page blank, but for headers and
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 ./dev/mt? mtio(4)
 ./dev/null sh(1)-4, null(4)
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 ./dev/pty[p-r][0-9a-f] pty(4)
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data terminal ready

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- DEC VAX-11 intro(4), PS1:1, PS1:1-3
- DEC VAX-11 D-floating-point math(3m)-2
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- DEC vt100 terminals sysline(1), plot(3x)
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