

Series 6000  
Operating System Reference Manual  
Volume II

Specifications Subject to Change

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## HOW TO USE THIS MANUAL

The *Series 6000 Operating System Reference Manual* describes the commands, system calls, libraries, data files, and device interfaces that make up the Series 6000 Operating System which runs on System 6300 Computer Systems and the Application Processors of System 6600 Computer Systems. Only internal-use and unbundled software products are excluded. This manual should always be your starting point when you need to find the documentation for an operating system feature with which you are unfamiliar.

The manual consists of a large number of short entries, sometimes called “the *man* pages,” after the command which accesses the entries when they are kept online. Each entry briefly documents some feature of the operating system. Some features require longer documentation than an entry in this manual; such features have an entry that outlines the feature and cross-references the manual that documents the feature fully. Entries that do not refer to other manuals are self-contained and are the final word on the features they describe.

**Organization of the manual.** The entries are organized into seven sections in two volumes:

Volume 1:

1. Commands and Application Programs.

Volume 2:

2. System Calls.
3. Subroutines and Libraries.
4. File Formats.
5. Miscellaneous Facilities.
6. Games.
7. Special files.

Within each section, entries are alphabetical by title, except for an *intro* entry at the beginning of each section.

**Entry Title Conventions.** An entry title looks like this example:

erf(3M)  
↑    ↑    ↑  
Name Section Number Entry Type

*Name* is the name of the entry. *Section Number* indicates the section that contains the entry. In this case, the entry is in Section 3, which is in Volume 2. *Entry Type* is only on entries that belong to special categories; refer to the section’s *intro* entry for an explanation. In this case, a reference to *intro(3)* would tell you that *erf(3M)* describes functions from the Math Library, which the C compiler does not load by default.

**Finding the entry you need.** To find out which entry you need, refer to the following guides:

- The Permuted Index. This indexes each significant word in each entry’s description. It is useful when you only have a general notion what you’re looking for. It is also useful when you know the name of the command, function, etc., that you are interested in, but there is no entry by that name. To simplify its use, a complete Permuted Index for both volumes is in each volume.
- The Table of Contents. This is a simple list of entries, by section, together with the entry descriptions. Volume 1 has a Table of Contents for Section 1. Volume 2 has a Table of Contents for Sections 2 through 7.

- The Table of Related Entries. For Volume 1 only. A table of entries organized so that related entries are grouped together.

**Section organization.** Each section begins with an *intro* entry, which provides important general information for that section.

Section 1, Commands and Application Programs, describes programs intended to be invoked directly by the user or by command language procedures, as opposed to subroutines, which are intended to be called by the user's programs. Commands generally reside in the directory `/bin` (for **bin**ary programs). Some programs also reside in `/usr/bin`, to save space in `/bin`. These directories are searched automatically by the command interpreter called the *shell*. Commands that were not transported from UNIX System V reside in `/usr/local/bin`; this directory is recommended for locally implemented programs. Some administrative commands reside in `/etc` and various other places. The `/etc` directory is searched automatically if you are logged in as root; otherwise type out the full path name given under **SYNOPSIS** or change the **PATH** environment variable to include the command's directory.

Section 2, System Calls, describes the entries into the operating system kernel, including the C language interfaces.

Section 3, Library Functions, describes the available library functions or subroutines. Their binary versions reside in various system libraries in the directories `/lib` and `/usr/lib`. See *intro(3)* for descriptions of these libraries and the files in which they are stored.

Section 4, File Formats, documents the structure of particular kinds of files; for example, the format of the output of the link editor is given in *a.out(4)*. Excluded are files used by only one command (for example, the assembler's intermediate files). In general, the C language **struct** declarations corresponding to these formats can be found in the directories `/usr/include` and `/usr/include/sys`.

Section 5, Miscellaneous Facilities, contains a variety of things. Included are descriptions of character sets, macro packages, etc.

Section 6, Games, describes the games and educational programs that reside in the directory `/usr/games`.

Section 7, Special Files, discusses the characteristics of files that actually refer to input/output devices.

**Entry organization.** All entries are based on a common format, not all of whose parts always appear:

The **NAME** part gives the name(s) of the entry and briefly states its purpose.

The **SYNOPSIS** part summarizes the use of the program being described. A few conventions are used, particularly in Section 1 (*Commands*):

**Boldface** strings are literals and are to be typed just as they appear.

*Italic* strings usually represent substitutable argument prototypes and program names found elsewhere in the manual (they are underlined in the typed version of the entries).

Square brackets `[]` around an argument prototype indicate that the argument is optional. When an argument prototype is given as "name" or "file", it always refers to a *file* name.

Ellipses `...` are used to show that the previous argument prototype may be repeated.

A final convention is used by the commands themselves. An argument beginning with a minus `-`, plus `+`, or equal sign `=` is often taken to be some sort of flag argument, even if it appears in a position where a file name could appear. Therefore, it is unwise to have files whose names begin with `-`, `+`, or `=`.

The **DESCRIPTION** part discusses the subject at hand.

The **EXAMPLE(S)** part gives example(s) of usage, where appropriate.

The **FILES** part gives the file names that are built into the program.

The **SEE ALSO** part gives pointers to related information.

The **DIAGNOSTICS** part discusses the diagnostic indications that may be produced. Messages that are intended to be self-explanatory are not listed.

The **WARNINGS** part points out potential pitfalls.

The **BUGS** part gives known bugs and sometimes deficiencies. Occasionally, the suggested fix is also described.

A table of contents and a permuted index derived from that table precede Section 1. On each *index* line, the title of the entry to which that line refers is followed by the appropriate section number in parentheses. This is important because there is considerable duplication of names among the sections, arising principally from commands that exist only to exercise a particular system call.

If the entries are online, they are available via the *man(1)* command.

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)

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REFUTED INDEX

/functions of HP 2640 and handle special functions of HP functions of DAST 300 and/ /special functions of DAST of DAST 30 and 300s/ 300, functions of DAST 300 and  3tol, toll3: convert between comparison. diff3: TEKTRONIX #01# terminal. paginator for the TEKTRONIX of the DAST #50 terminal special functions of the DAST long integer and base-64/ /exDeallocExch: obtain and	2621-series terminals . . . . . hp(1) 2640 and 2621-series/ hp: . . . . . hp(1) 300, 300s: handle special . . . . . 300(1) 300 and 300s terminals. . . . . 300(1) 300s handle special functions . . . . . 300(1) 300s terminals. /special. . . . . 300(1) 2-byte integers and long/ . . . . .  3tol (3C) 3-way differential file . . . . . diff3(1) #01#: paginator for the . . . . . #01#(1) #01# terminal. #01#: . . . . . #01#(1) #50: handle special functions . . . . . #50(1) #50 terminal. #50: handle . . . . . #50(1) a64 , 164a: convert between . . . . . a64 (3C) abandon exchanges . . . . . exchanges(2) abort: generate an IOT fault . . . . . abort(3C) abs: return integer absolute . . . . . abs(3C) absolute debugger . . . . . adb(1) absolute value. . . . . abs(3C) absolute value functions. . . . . floor(2I) accept, reject: allow/prevent. . . . . accept(1I) access and modification times . . . . . touch(1) access and modification times . . . . . utime(2) Access RTOS files . . . . . ofopen(3C) access: determine. . . . . access(2) access long integer data in a/ access routines. . . . . ldfcn(4) access time. dcopy: . . . . . dcopy(1I) access to regions of a file . . . . . locking(2) access utrp file entry. . . . . getut(3C) accessibility of a file . . . . . access(2) accounting. acct: . . . . . acct(2) accounting. acctcon1. . . . . acctcon(1I) accounting. . . . . acctprc(1I) accounting. /startup, . . . . . acctsh(1I) accounting and miscellaneous/ accounting commands. /of. . . . . acct(1I) accounting file format. . . . . acct(4) accounting file(s). acctcom: . . . . . acctcom(1) accounting files. . . . . acctmerg(1I) accounting records. /command. . . . . acctoms(1I) accounting records. futrp, . . . . . futrp(1I) accounting. . . . . runacct(1I) acct: enable or disable . . . . . acct(2) acct: per-process accounting. . . . . acct(4) acctoms: command summary from . . . . . acctoms(1I) acctcom: search and print . . . . . acctcom(1) acctcon1, acctcon2: . . . . . acctcon(1I) acctcon2: connect-time. . . . . acctcon(1I)
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acctwtmp: overview of/	acctdisk, acctdusg, accton. . .	acct(1M)
overview of/ acctdisk,	acctdusg, accton, acctwtmp: . .	acct(1M)
accounting files.	acctmerg: merge or add total. . .	acctmerg(1M)
acctdisk, acctdusg,	accton, acctwtmp: overview of/.	acct(1M)
accounting.	acctprc1, acctprc2: process . . .	acctprc(1M)
acctprc1,	acctprc2: process accounting. . .	acctprc(1M)
acctdisk, acctdusg, accton,	acctwtmp: overview of/ . . . . .	acct(1M)
sin, cos, tan, asin,	acos, atan, atan2:/ . . . . .	trig(3M)
killall: kill all	active processes. . . . .	killall(1M)
sa1, sa2, sadc: system	activity report package . . . . .	sar(1M)
sar: system	activity reporter . . . . .	sar(1)
current SCCS file editing	activity. sact: print . . . . .	sact(1)
report process data and system	activity. /time a command;. . . .	timex(1)
	adb: absolute debugger. . . . .	adb(1)
queue. quAdd:	add a new entry to a RTOS . . . . .	quadd(3X)
acctmerg: merge or	add total accounting files. . . . .	acctmerg(1M)
putenv: change or	add value to environment. . . . .	putenv(3C)
SCCS files	admin: create and administer. . .	admin(1)
admin: create and	administer SCCS files . . . . .	admin(1)
	advent: explore Colossal Cave . .	advent(6)
alarm: set a process	alarm clock . . . . .	alarm(2)
clock.	alarm: set a process alarm. . . . .	alarm(2)
/ofChangeFileLength, ofDelete:	Allocate RTOS files . . . . .	ofcreate(3X)
change data segment space	allocation. brk, sbrk: . . . . .	brk(2)
realloc, calloc: main memory	allocator. malloc, free, . . . . .	malloc(3C)
mallinfo: fast main memory	allocator. /calloc, mallont, . . .	malloc(3X)
accept, reject:	allow/prevent LP requests . . . . .	accept(1M)
brc, bcheckrc, rc,	allrc, conrc, ttrc: system/ . . . .	brc(1M)
brc, bcheckrc, rc,	allrc, conrc: system/.. . . . .	brc(1M)
sort: sort	and/or merge files. . . . .	sort(1)
link editor output.	a.out: common assembler and . . . .	a.out(4)
processor number	apnum: print Application. . . . .	apnum(1)
apnum: print	Application Processor number. . . .	apnum(1)
console: control	Application Processor/. . . . .	console(1M)
/a process on a specific	Application Processor . . . . .	spawn(1)
/a process on a specific	Application Processor . . . . .	spawn(3X)
introduction to commands and	application programs. intro: . . . .	intro(1)
keyprompt:	application shell . . . . .	keyprompt(1)
exServerRq:	appropriate a request code. . . . .	exservrq(2)
maintainer for portable/	ar: archive and library . . . . .	ar(1)
format.	ar: common archive file . . . . .	ar(4)
language. bc:	arbitrary-precision arithmetic. bc(1)	bc(1)
for portable archives. ar:	archive and library maintainer. ar(1)	ar(1)
cpio: format of epio	archive . . . . .	cpio(4)
ar: common	archive file format . . . . .	ar(4)
header of a member of an	archive file. /the archive. . . . .	ldahrea(3X)
an archive/ ldahread: read the	archive header of a member of . . . .	ldahrea(3X)
tar: tape file	archiver. . . . .	tar(1)
maintainer for portable	archives. /archive and library. ar(1)	ar(1)



cpio: copy file	archives in and out . . . . .	cpio(1)
varargs: handle variable	argument list . . . . .	varargs(5)
formatted output of a varargs	argument list. /print . . . . .	vprintf(3S)
command. xargs: construct	argument list(s) and execute. . .	xargs(1)
getopt: get option letter from	argument vector . . . . .	getopt(3C)
expr: evaluate	arguments as an expression. . .	expr(1)
echo: echo	arguments . . . . .	echo(1)
bc: arbitrary-precision	arithmetic language . . . . .	bc(1)
number facts	arithmetic: provide drill in. .	arithmetic(6)
expr: evaluate arguments	as an expression. . . . .	expr(1)
	as: mc68010 assembler . . . . .	as(1)
/locate a terminal to use	as the virtual system console .	conlocate(1M)
characters. asa: interpret	ASA carriage control. . . . .	asa(1)
control characters	asa: interpret ASA carriage . .	asa(1)
ascii: map of	ASCII chracter set. . . . .	ascii(5)
had: hexadecimal and	ascii file dump . . . . .	hd(1)
set.	ascii: map of ASCII character .	ascii(5)
long integer and base-64	ASCII string. /convert between.	a64l(3C)
number. atof: convert	ASCII string to floating-point.	atof(3C)
strings: extract the	ASCII text strings in a file. .	strings(1)
and/ ctime, localtime, gmtime,	asctime, tzset: convert date. .	ctime(3C)
trigonometric/ sin, cos, tan,	asin, acos, atan, atan2: . . . .	trig(3M)
help:	ask for help. . . . .	help(1)
output. a.out: common	assembler and link editor . . .	a.out(4)
as: mc68010	assembler . . . . .	as(1)
assertion.	assert: verify program. . . . .	assert(3X)
assert: verify program	assertion . . . . .	assert(3X)
setbuf, setvbuf:	assign buffering to a stream. .	setbuf(3S)
with a/ wmsetid, wmsetids:	associate a file descriptor . .	wmsetid(3X)
sin, cos, tan, asin, acos,	atan, atan2: trigonometric/ . .	trig(3M)
cos, tan, asin, acos, atan,	atan2: trigonometric/ sin, . . .	trig(3M)
floating-point number	atof: convert ASCII string to .	atof(3C)
double-precision/ strtod,	atof: cnvert string to. . . . .	strtod(3C)
integer. strtol, atol,	atoi: convert string to . . . .	strtol(3C)
integer. strtol,	atol, atoi: convert string to .	strtol(3C)
wait:	await completion of process . .	wait(1)
processing language.	awk: pattern scanning and . . .	awk(1)
quRemove: take	back a RTOS queue request . . .	quremove(3X)
ungetc: push character	back into input stream. . . . .	ungetc(3S)
	back: the game of backgammon. .	back(6)
back: the game of	backgammon. . . . .	back(6)
finc: fast incremental	backup. . . . .	finc(1M)
frec: recover files from a	backup tape . . . . .	frec(1M)
	banner: make posters. . . . .	banner(1)
smart modem capability data	base. modemcap: . . . . .	modemcap(5)
terminal capability data	base. termcap: . . . . .	termcap(4)
terminal capability data	base. terminfo: . . . . .	terminfo(4)
between long integer and	base-64 ASCII string. /convert.	a64l(3C)
(visual) display editor	based on ex. /screen-oriented .	vi(1)

portions of path names.	basename, dirname: deliver. . .	basename(1)
arithmetic language	bc: arbitrary-precision . . . .	bc(1)
system initialization/ brc,	bcheckrc, rc, allrc, conrc, . .	brc(1M)
system initialization	bcheckrc, rc, allrc, conrc: . .	brc(1M)
	bcopy: interactive block copy .	bcopy(1M)
	bdiff: big diff . . . . .	bdiff(1)
	beautifier. . . . .	cb(1)
cb: C program	Bessel functions. . . . .	bessel(3M)
j0, j1, jn, y0, y1, yn:	bfs: big file scanner . . . . .	bfs(1)
cpset: install object files in	binary directories. . . . .	cpset(1M)
fread, fwrite:	binary input/output . . . . .	fread(3S)
bsearch	binary search a sorted table. .	bsearch(3C)
tfind, tdelete, twalk: manage	binary search trees. tsearch .	tsearch(3C)
	bj: the game of black jack. . .	bj(6)
bj: the game of	black jack. . . . .	bj(6)
bcopy: interactive	block copy. . . . .	bcopy(1M)
sum: print checksum and	block count of a file . . . . .	sum(1)
sync: update the super	block . . . . .	sync(1)
df: report number of free disk	blocks. . . . .	df(1M)
tttr: system initialization/	brc, bcheckrc, rc, allrc, . . .	brc(1M)
conrc: system initialization/	brc, bcheckrc, rc, allrc, . . .	brc(1M)
space allocation.	brk, sbrk: change data segment.	brk(2)
sorted table.	bsearch: binary search a. . . .	bsearch(3C)
stdio: standard	buffered input/output package .	stdio(3S)
setbuf, setvbuf: assign	buffering to a stream . . . . .	setbuf(3S)
mknod:	build special file. . . . .	mknod(1M)
swapshort, swaplong: translate	byte orders to Motorola/Intel .	swapshort(3X)
swab:swap	bytes . . . . .	swab(3C)
cc:	C compiler. . . . .	cc(1)
cflow: generate	C flow graph. . . . .	cflow(1)
cpp: the	C language preprocessor . . . .	cpp(1)
cb:	C program beautifier. . . . .	cb(1)
lint: a	C program checker . . . . .	lint(1)
cxref: generate	C program cross reference . . .	cxref(1)
extract and share strings in	C programs. xstr: . . . . .	xstr(1)
	cal: print calendar . . . . .	cal(1)
	calculator. . . . .	dc(1)
dc: desk	calendar. . . . .	cal(1)
cal: print	calendar: reminder service. . .	calendar(1)
	call another computer system. .	cu(1C)
cu:	call. stat: . . . . .	stat(5)
data returned by stat system	calloc: main memory allocator .	malloc(3C)
malloc, free, realloc,	calloc, mallopt, mallinfo: . . .	malloc(3X)
fast/ malloc, free, realloc,	calls and error numbers . . . .	intro(2)
intro: introduction to system	calls. link, unlink: exercise .	link(1M)
link and unlink system	cancel: send/cancel requests. .	lp(1)
to an LP line printer. lp,	capability data base. . . . .	modemcap(5)
modemcap: smart modem	capability data base. . . . .	termcap(4)
termcap: terminal	capability data base. . . . .	terminfo(4)
terminfo: terminal		

asa: interpret ASA	carriage control characters . . .	asa(1)
fp: winchester,	cartridge, and floppy disks . . .	fp(7)
dismount: remove floppy or	cartridge disk. . . . .	dismount(1)
files.	cat: concatenate and print. . .	cat(1)
advent: explore Colossal	Cave. . . . .	advent(6)
	cb: C program beautifier. . . .	cb(1)
	cc: C compiler. . . . .	cc(1)
	cd: change working directory. . .	cd(1)
commentary of an SCCS delta	cdc: change the delta . . . . .	cdc(1)
ceiling, remainder,/ floor,	ceil, fmod, fabs: floor . . . .	floor(3M)
/ceil, fmod, fabs: floor,	ceiling, remainder, absolute/ . .	floor(3M)
	cflow: generate C flow graph. . .	cflow(1)
	(change) to an SCCS file. . . .	delta(1)
delta: make a delta	channel . . . . .	pipe(2)
pipe: create an interprocess	channels. tp: controlling . . . .	tp(7)
terminal's local RS-232	character back into input . . . .	ungetc(3S)
stream. ungetc: push	character definitions for eqn . . .	eqnchar(5)
and neqn. eqnchar: special	character definitions for eqn . . .	mv(5)
and neqn. eqnchar: special	character login name of the . . .	cuserid(3S)
user. cuserid: get	character or word from a/ . . . .	getc(3S)
/getchar, fgetc, getw: get	character or word on a stream . .	putc(3S)
/putchar fputc, putw: put	character-printer spooler . . . .	cpr(1)
cpr:	character set . . . . .	ascii(5)
ascii: map of ASCII	character-set control for a . . . .	estty(1)
terminal. /estty:	character-set interface . . . . .	estermio(7)
ostermio: terminal I/O	character-set translation table . .	csinit(3X)
csinit: initialize a	character-set translation . . . .	cstrans(3X)
cstrans: perform	character-set translator. . . . .	cstrans(1)
cstrans: text-file	character-set translator and. . . .	csoffset(1)
csoffset: print-file	characters. asa: . . . . .	asa(1)
nterpret ASA carriage control	characters. /_toupper, . . . . .	conv(3C)
_tolower, toascii: translate	characters. /isprint, isgraph, . .	ctype(3C)
_isctrl, isascii: classify	characters. . . . .	tr(1)
tr: translate	chargefee, ckpacct, dodisk, . . .	acctsh(1M)
_lastlogin, monacct, nulladm,/	chdir: change working . . . . .	chdir(2)
directory.	check and interactive repair. . . .	fsck(1M)
dfck: file system consistency	checkow: prepare. . . . .	ow(1)
constant-width text for/ cw,	checkeq: format mathematical. . .	eqn(1)
text for nroff or/ eqn, neqn,	checker . . . . .	lint(1)
lint: a C program	checkers. pwck, . . . . .	pwck(1M)
grpck: password/group file	checking. volcopy, labelit: . . . .	volcopy(1M)
copy file systems with label	checklist: list of file . . . . .	checklist(4)
systems processed by fsck.	checkmm: print/check documents. . .	mm(1)
formatted with the/ mm, osdd,	checksum and block count of a . . .	sum(1)
file. sum: print	chgrp: change owner or group. . . .	chown(1)
chown, chgrp:	child process times . . . . .	times(2)
times: get process and	child process to stop or. . . . .	wait(2)
terminate. wait: wait for	chmod: change mode. . . . .	chmod(1)
	chmod: change mode of file. . . .	chmod(2)

of a file	chown: change owner and group . . .	chown(2)
group.	chown, chgrp: change owner or . . .	chown(1)
	chroot: change root directory . . .	chroot(2)
for a command.	chroot: change root directory . . .	chroot(1M)
monacct, nulladm, / chargefee,	ckpacct, dodisk, lastlogin, . . .	acctsh(1M)
isgraph, isctrl, isascii:	classify characters. /isprint, . . .	ctype(3C)
uuclean: uucp spool directory	clean up . . . . .	uuclean(1M)
	clear: clear terminal screen. . .	clear(1)
	clear i-node. . . . .	clri(1M)
	clear terminal screen . . . . .	clear(1)
status/ ferror, feof,	clearerr, fileno: stream. . . . .	feerror(3S)
exRespond: send a message to a	client. . . . .	exrespond(2)
alarm: set a process alarm	clock . . . . .	alarm(2)
	clock daemon. . . . .	cron(1M)
	clock: report CPU time used . . .	clock(3C)
ldclose, ldaclose:	close a common object file. . . .	ldclose(3X)
close:	close a file descriptor . . . . .	close(2)
descriptor.	close: close a file . . . . .	close(2)
fclose, fflush:	close or flush a stream . . . . .	fclose(3S)
	clri: clear i-node. . . . .	clri(1M)
	cmp: compare two files. . . . .	cmp(1)
appropriate a request	code. exServeRq: . . . . .	exserverq(2)
line-feeds.	clo: filter reverse . . . . .	col(1)
advent: explode	Colossal Cave . . . . .	advent(6)
	comb: combine SCCS deltas . . . . .	comb(1)
	comb: combine SCCS deltas . . . . .	comb(1)
common to two sorted files.	comm: select or reject lines. . .	comm(1)
nice: run a	command at low priority . . . . .	nice(1)
change root directory for a	command. chroot: . . . . .	chroot(1M)
env: set environment for	command execution . . . . .	env(1)
uux: remote system	command execution . . . . .	uux(1C)
quits. nohup: run a	command immune to hangups and . .	nohup(1)
interactive RTOS JCL. ofcli:	command line interpreter for. . .	ofcli(1M)
getopt: parse	command options . . . . .	getopt(1)
locate executable file for	command. path: . . . . .	path(1)
shell, the standard/restricted	command programming language. . .	sh(1)
and system/ timex: time a	command; report process data. . .	timex(1)
per-process/ acctcms:	command summary from. . . . .	acctcms(1M)
system: issue a shell	command . . . . .	system(3S)
test: condition evaluation	command . . . . .	test(1)
time: time a	command . . . . .	tiem(1)
argument list(s) and execute	command. xargs: construct . . . .	xargs(1)
and miscellaneous accounting	commands. /of accounting. . . . .	acct(1M)
intro: introduction to	commands and application/ . . . .	intro(1)
install: install	commands. . . . .	install(1M)
cdc: change the delta	commentary of an SCCS delta . . .	cdc(1)
er:	common archive file format. . . .	ar(4)
editor output. a.out:	common assembler and link . . . .	a.out(4)
routines. ldfcn:	common object file access . . . .	ldfcn(4)

ldopen, ldaopen: open a	common object file for/ . . . .	ldopen(3X)
/line number entries of a	common object file function . .	ldlread(3X)
ldclose, ldaclose: close a	common object file. . . . .	ldclose(3X)
read the file header or a	common object file. ldfhread: .	ldfhread(3X)
entries of a section of a	common object file. /number . .	ldlseek(3X)
the optional file header of a	common object file. /seek to. .	ldohseek(3X)
/entries of a section of a	common object file. . . . .	ldrseek(3X)
/section header of a	common object file. . . . .	ldshread(3X)
an indexed/named section of a	common object file. /seek to. .	ldsseek(3X)
of a symbol table entry of a	common object file. /the index.	ldtbindex(3X)
symbol table entry of a	common object file. /indexed. .	ldtbread(3X)
seek to the symbol table of a	common object file. ldtbseek: .	ldtbseek(3X)
line number entries in a	common object file. linenum: .	linenum(4)
nm: print name list of	common object file. . . . .	nm(1)
relocation information for a	common object file. reloc: . .	reloc(4)
senhdr: section header for a	common object file. . . . .	senhdr(4)
line number information from a	common object file. /and. . . .	strip(1)
/retrieve symbol name for	common object file symbol/ . .	ldgetname(3X)
table format. syms:	common object file symbol . . .	syms(4)
filehdr: file header for	common object files . . . . .	filehdr(4)
ld: link editor for	common object files . . . . .	ld(1)
size; print section sizes of	common object files . . . . .	size(1)
comm: select or reject lines	common to two sorted files. . .	comm(1)
ipcs: report inter-process	communication facilities/ . . .	ipcs(1)
stdipc: standard interprocess	communication package (ftok). .	stdipc(3C)
diff: differential file	comparator. . . . .	diff(1)
cmp:	compare two files . . . . .	cmp(1)
SCCS file. scsdiff:	compare two versions of an. . .	scsdiff(1)
diff3: 3-way differential file	comparison. . . . .	diff3(1)
dircmp: directory	comparison. . . . .	dircmp(1)
expression. regcmp, regex:	compile and execute regular . .	regcmp(3X)
regex: regular expression	compile and match routines. . .	regex(5)
regcmp: regular expression	compile . . . . .	regcmp(1)
term: format of	compiled term file. . . . .	term(4)
cc: C	compiler. . . . .	cc(1)
tic: terminfo	compiler. . . . .	tic(1M)
yacc: yet another	compiler-compiler . . . . .	yacc(1)
erf, erf: error function and	complementary error function. .	erf(3M)
wait: await	completion of process . . . .	wait(1)
pack, pcat, unpack:	compress and expand files . . .	pack(1)
table entry of a/ ldtbindex:	compute the index of a symbol .	ldtbindex(3X)
cu: call another	computer system . . . . .	cu(1C)
uname: copy data between	computer systems. /uulog, . . .	uucp(1C)
system/ uuto, uupick: public	computer system-to-computer . .	uuto(1C)
cat:	concatenate and print files . .	cat(1)
test:	condition evaluation command. .	test(1)
system.	config: configure an operating	
	system. . . . .	config(1M)
config.	configure an operating system .	config(1M)

system. /lp.cnfg:	configure and maintain print. . . lp.cnfg(1M)
files. /term.cnfg:	configure terminal download . . . term.cnfg(1M)
system. lpadmin:	configure the LP spooling . . . lpadmin(1M)
to use as the virtual system/	conlocate: locate a terminal. . . conlocate(1M)
fwtmp, wtmpfix: manipulate	connect accounting records. . . fwtmp(1M)
an out-going terminal line	connection. dial: establish . . . dial(3C)
acctcon1, acctcon2:	connect-time accounting . . . acctcon(1M)
brc, bcheckrc, rc, allrc,	conrc: system initialization/ . . brc(1M)
brc, bcheckrc, rc, allrc,	conrc, ttrc: system
	initialization/. . . brc(1M)
fsck, dfsck: file system	consistency check and/. . . fsck(1M)
to use as the virtual system	console. /locate a terminal . . . conlocate(1M)
	console: console terminal . . . console(7)
Processor pseudoconsole.	console: control Application. . . console(1M)
console:	console terminal. . . . . console(7)
math: math functions and	constants . . . . . math(5)
cw, checkcw: prepare	constant-width text for troff . . . cw(1)
mkfs:	construct a file system . . . . . mkfs(1M)
execute command. xargs:	construct argument list(s) and. . . xargs(1)
nroff/troff, tbl, and eqn	constructs. deroff: remove. . . . . deroff(1)
ls: list	contents of directory . . . . . ls(1)
csplit:	context split . . . . . csplit(1)
pseudoconsole. console:	control Application Processor . . . console(1M)
asa: interpret ASA carriage	control characters. . . . . asa(1)
ioctl:	control device. . . . . ioctl(2)
fentl: file	control . . . . . fentl(2)
/cstty: character-set	control for a terminal. . . . . cstty(1)
init, icode, telinit: process	control initialization. . . . . init(1M)
msgctl: message	control operations. . . . . msgctl(2)
semctl: semaphore	control operations. . . . . semctl(2)
shmctl: shared memory	control operations. . . . . shmctl(2)
fentl: file	control options . . . . . fentl(5)
uucp status inquiry and job	control. uustat:. . . . . uustat(1C)
vc: version	control . . . . . vc(1)
interface. tty:	controlling terminal. . . . . tty(7)
RS-232 channels. tp:	controlling terminal's local. . . . . tp(7)
terminals. term:	conventional names for. . . . . term(5)
units:	conversion program. . . . . units(1)
dd:	convert and copy a file . . . . . dd(1)
floating-point number. atof:	convert ASCII string to . . . . . atof(3C)
integers and/ l3tol, ltol3:	convert between 3-byte. . . . . l3tol(3C)
and base-64 ASCII/ a64l, l64a:	convert between long integer. . . . . a64l(3C)
/gmtime, asctime, tzset:	convert date and time to/ . . . . . ctime(3C)
to string. ecvt, fcvt, gcvt:	convert floating-point number . . . . . ecvt(3C)
scanf, fscanf, sscanf:	convert formatted input . . . . . scanf(3S)
strtod, atof:	convert string to/. . . . . strtod(3C)
strtol, atol, atoi:	convert string to integer . . . . . strtol(3C)
dd: convert and	copy a file . . . . . dd(1)
bcopy: interactive block	copy. . . . . bcopy(1M)

systems.	uucp, uulog, uname:	copy data between computer. . .	uucp(1C)
	cpio:	copy file archives in and out .	cpio(1)
	access time. dcopy:	copy file systems for optimal .	dcopy(1M)
	checking. volcopy, labelit:	copy file systems with label. .	volcopy(1M)
	reformat operating system		
	kernel and	copy it to RTOS. mkboot: . . .	mkboot(1M)
	cp, ln, mv:	copy, link or move files. . . .	cp(1)
	system. ofcopy:	copy to or from the RTOS file .	ofcopy(1M)
system-to-computer	system file	copy. /uupick: public computer.	uuto(1C)
	file.	core: format of core image. . .	core(4)
	core: format of	core image file . . . . .	core(4)
	mem, kmem:	core memory . . . . .	mem(7)
atan2:	trigonometric/ sin,	cos, tan, asin, acos, atan, . .	trig(3M)
	functions. sinh,	cosh, tanh: hyperbolic. . . .	sinh(2M)
sum:	print checksum and block	count of a file . . . . .	sum(1)
	wc: word	count . . . . .	wc(1)
	files.	cp, ln, mv: copy, link or move.	cp(1)
	cpio: format of	cpio archive. . . . .	cpio(4)
	and out.	cpio: copy file archives in . .	cpio(1)
		cpio: format of cpio archive. .	cpio(4)
	preprocessor.	cpp: the C language . . . . .	cpp(1)
		cpr: character-printer spooler.	cpr(1)
	binary directories.	cpset: install object files in.	cpset(1M)
	clock: report	CPU time used . . . . .	clock(3C)
	craps: the game of	craps . . . . .	craps(6)
		craps: the game of craps. . . .	craps(6)
		crash: examine system images. .	crash(1M)
	rewrite an existing one.	creat: create a new file or . .	creat(2)
	file. tmpnam, tmpnam:	create a name for a temporary .	tmpnam(3S)
	an existing one. creat:	create a new file or rewrite. .	creat(2)
	fork:	create a new process . . . . .	fork(2)
	ctags:	create a tags file. . . . .	ctags(1)
	tmpfile:	create a temporary file . . . .	tmpfile(3S)
	channel. pipe:	create an interprocess. . . . .	pipe(2)
	files. admin:	create and administer SCCS. . .	admin(1)
	(slice). crup:	create file system partition. .	crup(1M)
	umask: set and get file	creation mask . . . . .	umask(2)
		cron: clock daemon. . . . .	cron(1M)
	cxref: generate C program	cross reference . . . . .	cxref(1)
optimization package.	curses:	CRT screen handling and . . . .	curses(3X)
	partition (slice).	crup: create file system. . . .	crup(1M)
	generate DES encryption.	crypt, setkey, encrypt: . . . .	crypt(3C)
	set translation table.	csinit: initialize a character.	csinit(3X)
	set translator and formatter	csoffset: print-file character.	csoffset(1)
		csplit: context split . . . . .	csplit(1)
	set interface.	cstermio: terminal I/O	
		character-. . . . .	cstermio(7)
	translation.	cstrans: perform character-set.	cstrans(3X)
	translator.	cstrans: text-file character-. .	cstrans(1)

for a terminal.	estty: character-set control. . . . .	estty(1)
terminal.	ct: spawn getty to a remote . . . . .	ct(1C)
	ctags: create a tags file . . . . .	ctags(1)
for terminal	ctermid: generate file name . . . . .	ctermid(2B)
asctime, tzset: convert date/	ctime, localtime, gmtime, . . . . .	ctime(2C)
system.	cu: call another computer . . . . .	cu(1C)
	cubic: tic-tac-toe. . . . .	ttt(6)
ttt,	current operating system. . . . .	uname(2)
uname: get name of	current SCCS file editing . . . . .	sact(1)
activity. sact: print	current user. /find the . . . . .	ttyslot(3C)
slot in the utmp file of the	current working directory . . . . .	getcwd(3C)
getcwd: get path-name of	curses: CRT screen handling . . . . .	curses(3X)
and optimization package	curve . . . . .	spline(1G)
spline: interpolate smooth	cuserid: get character login. . . . .	cuserid(2F)
name of the user.	cut: cut out selected fields. . . . .	cut(1)
of each line of a file.	cut out selected fields of. . . . .	cut(1)
each line of a file. cut:	cw, checkcw: prepare. . . . .	cw(1)
constant-width text for/	cxref: generate C program . . . . .	cxref(1)
cross reference.	daemon. . . . .	cron(1M)
cron: clock	daemon. errstop: . . . . .	errstop(1M)
terminate the error-logging	daily accounting. . . . .	runacct(1M)
runacct: run	DASI 300 and 300s terminals . . . . .	300(1)
/handle special functions of	DASI 450 terminal. /handle. . . . .	450(1)
special functions of the	data and system activity. . . . .	timex(1)
time a command; report process	data base. modemcap: . . . . .	modemcap(5)
smart modem capability	data base . . . . .	termcap(4)
termcap: terminal capability	data base . . . . .	terminfo(4)
terminfo: terminal capability	data between computer systems . . . . .	uuucp(1C)
uuucp, uuulog, uuuname: copy	data in a machine-independent/. . . . .	sputl(3X)
/sgetl: access long integer	data. . . . .	prof(1)
prof: display profile	data returned by stat system. . . . .	stat(5)
call. stat:	data segment space allocation . . . . .	brk(2)
brk, sbrk: change	data types. . . . .	types(5)
types: primitive system	database operator . . . . .	join(1)
join: relational	date and time to string . . . . .	ctime(3C)
/asctime, tzset: convert	date. . . . .	date(1)
date: print and set the	date: print and set the date. . . . .	date(1)
	dc: desk calculator . . . . .	dc(1)
optimal access time.	dcopy: copy file systems for. . . . .	dcopy(1M)
	dd: convert and copy a file . . . . .	dd(1)
adb: absolute	debugger. . . . .	adb(1)
fsdb: file system	debugger. . . . .	fsdb(1M)
eqnchar: special character	definitions for eqn and neqn. . . . .	eqnchar(5)
eqnchar: special character	definitions for eqn and neqn. . . . .	mv(5)
names. basename, dirname:	deliver portions of path. . . . .	basename(1)
file. tail:	deliver the last part of a. . . . .	tail(1)
delta commentary of an SCCS	delta. cdc: change the. . . . .	cdc(1)
file. delta: make a	delta (change) to an SCCS . . . . .	delta(1)
delta. cdc: change the	delta commentary of an SCCS . . . . .	cdc(1)



rm <del>del</del> : remove a	delta from an SCCS file . . . .	rm <del>del</del> (1)
to an SCCS file.	<i>delta: make a delta (change).</i> . .	<i>delta</i> (1)
comb: combine SCCS	deltas. . . . .	comb(1)
errdemon: error-logging	demon . . . . .	errdemon(1M)
msg: permit or	deny messages . . . . .	msg(1)
tbl, and eqn constructs.	deroff: remove nroff/troff, . .	deroff(1)
setkey, encrypt: generate	DES encryption. crypt, . . . .	crypt(3C)
close: close a file	descriptor. . . . .	close(2)
dup: duplicate an open file	descriptor. . . . .	dup(2)
/wmsetids: associate a file	descriptor with a window. . . .	wmsetid(3X)
dc:	desk calculator . . . . .	dc(1)
file. access:	determine accessibility of a. .	access(2)
file:	determine file type . . . . .	file(1)
lines for finite width output	device. fold: fold long . . . .	fold(1)
master: master	device information table. . .	mater(4)
ioctl: control	device. . . . .	ioctl(2)
devnm:	device name . . . . .	devnm(1M)
	devnm: device name. . . . .	devnm(1M)
blocks.	df: report number of free disk.	df(1M)
check and interactive/ fsck,	dfsck: file system consistency.	fsck(1M)
terminal line connection.	dial: establish an out-going. .	dial(3C)
bdiff: big	diff. . . . .	bdiff(1)[
comparator.	diff: differential file . . . .	diff(1)
comparison.	diff3: 3-way differential file.	diff3(1)
sdiff: side-by-side	difference program. . . . .	sdiff(1)
difffmk: mark	differences between files. . .	difffmk(1)
diff:	differential file comparator. .	diff(1)
diff3: 3-way	differential file comparison. .	diff3(1)
between files.	difffmk: mark differences . . .	difffmk(1)
in large files and/ pilf,	dio: performance improvement. .	pilf(5)
	dir: format of directories. . .	dir(4)
improvement in large files and	dircomp: directory comparison. .	dircomp(1)
install object files in binary	direct I/O. /dio: performance .	dilf(5)
dir: format of	directories. cpset: . . . . .	cpset(1M)
ofls: list RTOS files and	directories. . . . .	dir(4)
rm, rmdir: remove files or	directories. . . . .	ofls(1M)
cd: change working	directories. . . . .	rm(1)
chdir: change working	directory . . . . .	cd(1)
chroot: change root	directory . . . . .	chdir(2)
uuclean: uucp spool	directory. . . . .	chroot(2)
dircomp:	directory clean-up. . . . .	uuclean(1M)
unlink: remove	directory comparison. . . . .	dircomp(1)
chroot: change root	directory entry. . . . .	unlink(2)
/make a lost+found	directory for a command. . . .	chroot(1M)
ofDlDir,ofReadDirSector: RTOS	directory for fsck. . . . .	mklost+found(1)
path-name of current working	directory functions. ofCrDir, .	ofdir(3X)
ls: list contents of	directory. getcwd:get . . . . .	getcwd(3C)
mkdir: make a	directory. . . . .	ls(1)
	directory. . . . .	mkdir(1)

mmdir: move a	directory. . . . .	mmdir(1M)
pwd: working	directory name. . . . .	pwd(1)
ordinary file. mknod: make a	directory, or a special or . . .	mknod(2)
path names. basename,	dirname: deliver portions of. . .	basename(1)
printers. enable,	disable: enable/disable LP. . .	enable(1)
acct: enable or	disable process accounting. . .	acct(2)
type, modes, speed, and line	discipline. /set terminal . . .	getty(1M)
df: report number of free	disk blocks. . . . .	df(1M)
remove floppy or cartridge	disk. dismount: . . . . .	dismount(1)
update: provide	disk synchronization. . . . .	update(1M)
du: summarize	disk usage. . . . .	du(1)
cartridge, and floppy	disks. fp: winchester, . . . . .	fp(7)
mount, umount: mount and	dismount file system. . . . .	mount(1M)
cartridge disk.	dismount: remove floppy or. . .	dismount(1)
vi: screen-oriented(visual)	display editor based on ex. . .	vi(1)
prof:	display profile data. . . . .	prof(1)
hypot: Euclidean	distance function. . . . .	hypot(3M)
/lcong48: generate uniformly	distributed pseudo-random/. . .	drand48(3C)
nm, osdd, checknm: print/check	documents formatted with the/	nm(1)
macro package for formatting	documents. mm: the MM. . . . .	mm(5)
slides. mmt, mvt: typeset	documents, view graphs, and . .	mmt(1)
nulladm, / chargefee, ckpaact,	dodisk, lastlogin, monacct, . .	acctsh(1M)
whodo: who is	doing what. . . . .	shodo(1M)
/atof: convert string to	double-precision number. . . .	strtod(3C)
td1: rs232 terminal	download. . . . .	td1(1)
configure terminal	download files. /term.cnfg:. . .	term.cnfg(1M)
connection. /tmd1:	download terminal through RS-	tmd1(1)
nrand48, mrand48, jrand48, /	drand48, erand48, lrand48, . . .	drand48(3C)
graph:	draw a graph. . . . .	graph(1G)
arithmetic: provide	drill in number facts . . . . .	arithmetic(6)
	du: summarize disk usage. . . .	du(1)
	dump: dump selected parts of. . .	dump(1)
	dump. /extract error records. . .	errdead(1M)
	dump. . . . .	hd(1)
	dump. . . . .	od(1)
	dump selected parts of an . . .	dump(1)
	dup: duplicate an open file . . .	dup(2)
	duplicate an open file. . . . .	dup(2)
	echo arguments. . . . .	echo(1)
	echo: echo arugments . . . . .	echo(1)
	ecvt, fcvt, gcvt: convert . . . .	ecvt(3C)
	ed, red: text editor. . . . .	ed(1)
	edata: last locations in. . . . .	end(3C)
	edit RTOS files . . . . .	ofeditors(1M)
	editing activity. . . . .	sact(1)
	editor based on ex. . . . .	vi(1)
	editor. . . . .	ed(1)
	editor. . . . .	ex(1)
	editor for common object. . . . .	ld(1)

common assembler and linker	editor output. a.out: . . . . .	a.out(4)
sed: stream editor	editor. . . . .	sed(1)
/user, real group, and	effective group IDs . . . . .	getuid(2)
nad/ /getegid: get real user,	effective user, real group, . . .	getuid(2)
split fortran, ratfor, or	efl files. fsplit: . . . . .	fsplit(1)
for a pattern. grep,	egrep, fgrep: search a file . . .	grep(1)
enable/disable LP printers.	enable, disable: . . . . .	enable(1)
accounting. acct:	enable or disable process . . . .	acct(2)
enable, disable:	enable/disable LP printers. . . .	enable(1)
encryption. crypt, setkey,	encrypt: generate DES . . . . .	crypt(3C)
setkey, encrypt: generate DES	encryption. crypt, . . . . .	crypt(3C)
locations in program.	end, etext, edata: last . . . . .	end(3C)
/getgrgid, getgrnam, setgrent,	endgrent, fgetgrent: get group/	getgrent(3C)
/getpwnuid, getpwnam, setpwent,	endpwent, fgetpwent: get/ . . . .	getpwent(3C)
utmp/ /pututline, setutent,	endutent, utmpname: access. . . .	getut(3C)
nlist: get	entries from name list. . . . .	nlist(3C)
file. linenum: line number	entries in a common object. . . .	linenum(4)
man, manprog: print	entries in this manual. . . . .	man(1)
man: macros for formatting	entries in this manual. . . . .	man(5)
file/ /manipulate line number	entries of a common object. . . .	ldlread(3X)
common / /seek to line number	entries of a section of a . . . .	ldlseek(3X)
/ldnrseek: seek to relocation	entries of a section of a/. . . .	ldrseek(3X)
utmp, wtmp: utmp and wtmp	entry formats . . . . .	utmp(4)
fgetgrent: get group file	entry. /setgrent, endgrent, . . .	getgrent(3C)
fgetpwent: get password file	entry. /setpwent, endpwent, . . .	getpwent(3C)
utmpname: access utmp file	entry. /setutent, endutent, . . .	getut(3C)
object file symbol table	entry. /symbol name for common.	ldgetname(3X)
/the index of a symbol table	entry of a common object file . .	ldtbindex(3X)
/read an indexed symbol table	entry of a common object file . .	ldtbread(3X)
putpwent: write password file	entry . . . . .	putpwent(3C)
quAdd: add a new	entry to a RTOS queue . . . . .	quadd(3X)
unlink: remove directory	entry . . . . .	unlink(2)
command execution.	env:set environment for . . . . .	env(1)
	environ: user environment . . . .	environ(5)
profile: setting up an	environment at login time . . . .	profile(4)
environ: user	environment . . . . .	environ(5)
execution. env: set	environment for command . . . . .	env(1)
getenv: return value for	environment name. . . . .	getenv(3C)
putenv: change or add value to	environment . . . . .	putenv(3C)
interface, and terminal	environment. /terminal. . . . .	tset(1)
character definitions for	eqn and neqn. /special. . . . .	eqnchar(5)
character definitions for	eqn and neqn. /special. . . . .	mv(5)
remove nroff/troff, tbl, and	eqn constructs. deroff: . . . . .	deroff(1)
mathematical text for nroff/	eqn, neqn, checkeq: format. . . .	eqn(1)
definitions for eqn and neqn.	eqnchar: special character. . . .	eqnchar(5)
definitions for eqn and neqn.	eqnchar: special character. . . .	mv(5)
mrand48, jrand48, / drand48,	erand48, lrand48, nrand48, . . . .	drand48(3C)
complementary error function.	erf, erfc: error function and . . .	erf(3M)
complementary error/ erf,	erfc: error function and. . . . .	erf(3M)

and status information from/	err; error-logging interface. . . . .	err(7)
format.	errdead: extract error records. . . . .	errdead(1M)
system error/ perror,	errdemon: error-logging demon. . . . .	errdemon(1M)
complementary/ erf, erfc:	errfile: error-log file . . . . .	errfile(4)
function and complementary	errno, sys_errlist, sys_nerr: . . . . .	perror(3C)
sys_errlist, sys_nerr: system	error function and. . . . .	erf(3M)
to system calls and	error function. /erfc: error. . . . .	erf(3M)
information/ errdead: extract	error messages. /errno, . . . . .	perror(3C)
matherr:	error numbers. /introduction. . . . .	intro(2)
errfile:	error records and status. . . . .	errdead(1M)
errstop: terminate the	error-handling function . . . . .	matherr(3M)
errdemon:	error-log file format . . . . .	errfile(4)
err:	error-logging daemon. . . . .	errstop(1M)
process a report of logged	error-logging demon . . . . .	errdemon(1M)
hashcheck: find spelling	error-logging interface . . . . .	err(7)
logged errors.	errors. errpt: . . . . .	errpt(1M)
error-logging daemon.	errors. /hashmake, spellin, . . . . .	spell(1)
terminal line/ dial	errpt: process a report of. . . . .	errpt(1M)
setmnt:	errstop: terminate the. . . . .	errstop(1M)
in program. end,	establish an outgoing . . . . .	dial(3C)
hypot:	establish mount table . . . . .	setmnt(1M)
expression. expr:	etext, edata: last locations. . . . .	end(3C)
test: condition	Euclidean distance function . . . . .	hypot(3M)
	evaluate arguments as an. . . . .	expr(1)
	evaluation command. . . . .	test(1)
	ex: text editor . . . . .	ex(1)
display editor based on	ex. /screen-oriented (visual). . . . .	vi(1)
obtain/ exQueryDfltRespExch,	exAllocExch, exDeallocExch: . . . . .	exchanges(2)
exWait, exCheck:	examine an ICC message queue. . . . .	exwait(2)
quReadNext, quReadKeyed:	examine RTOS queue. . . . .	quread(3X)
crash:	examine system images . . . . .	crash(1M)
wait for the response.	exCall: Send a request and. . . . .	excall(2)
remove a response from an	exchange. /exDiscard: . . . . .	excresp(2)
obtain and abandon	exchanges. /exDeallocExch: . . . . .	exchanges(2)
message queue. exWait,	exCheck: examine an ICC . . . . .	exwait(2)
a file. locking:	exclusive access to regions of. . . . .	locking(2)
requests. exSendOnDealloc,	exCnxSendOnDealloc:make final . . . . .	exfinal(2)
remove a response from an/	exCpResponse, exDiscard: . . . . .	excresp(2)
abandon/ /exAllocExch,	exDeallocExch: obtain and . . . . .	exchanges(2)
from an/ exCpResponse,	exDiscard: remove a response. . . . .	excresp(2)
execlp, execvp: execute a/	execl, execv, execl, execve, . . . . .	exec(2)
execvp: execute/ execl, execv,	execl, execve, execlp, . . . . .	exec(2)
execl, execv, execl, execve,	execlp, execvp: execute a/. . . . .	exec(2)
path: locate	executable file for command . . . . .	path(1)
execve, execlp, execvp:	execute a file. /execl, . . . . .	exec(2)
specific Application/ spawn:	execute a process on a. . . . .	spawn(1)
specific/ spawnlp, spawnvp:	execute a process on a. . . . .	spawn(3X)
onstruct argument lists(s) and	execute command. xargs: . . . . .	xargs(1)
regcomp, regex: compile and	execute regular expression. . . . .	regcomp(3X)

set environment for command	execution. env: . . . . . env(1)
sleep: suspend	execution for an interval . . . sleep(1)
sleep: suspend	execution for interval. . . . . sleep(3C)
monitor: prepare	execution profile . . . . . monitor(3C)
spawnsrv: service spawn	execution requests. . . . . spawnsrv(1M)
profil:	execution time profile. . . . . profil(2)
uux: remote system command	execution . . . . . uux(1C)
execvp: execute a/ execl,	execv, execl, execve, execlp,. exec(2)
execute/ execl, execv, execl,	execve, execlp, execvp: . . . . . exec(2)
execv, execl, execve, execlp,	execvp: execute a file. . . . . exec(2)
system calls. link, unlink:	exercise link and unlink. . . . link(1M)
a new file or rewrite an	existing one. creat: create . . . creat(2)
process.	exit, _exit: terminate . . . . . exit(2)
exit,	_exit: terminate process. . . . exit(2)
exponential, logarithm,/	_exp,log,log10, pow, sqrt: . . . exp(3M)
pcat, unpack: compress and	expand files. pack, . . . . . pack(1)
advent:	explore Colossal Cave . . . . . advent(6)
exp, log, log10, pow, sqrt:	exponential, logarithm, power,/ exp(3M)
expression.	expr: evaluate arguments as an. expr(1)
routines. regexp: regular	expression compile and match. . . regexp(5)
regcomp: regular	expression compile. . . . . regcomp(1)
expr: evaluate arguments as an	expression. . . . . expr(1)
compile and execute regular	expression. regcomp, regex:. . . regcomp(3X)
exAllocExch, exDeallocExch:/	exQueryDfltRespExch,. . . . . exchanges(2)
server.	exRequest: Send a message to a. exrequest(2)
client.	exRespond: send a message to a. exrespond(2)
exCnxSendOnDealloc: make/	exSendOnDealloc,. . . . . exfinal(2)
request code.	exServerRq: appropriate a. . . . . exserverrq(2)
programs. xstr:	extract and share strings in C. xstr(1)
status information/ errdead:	extract error records and . . . errdead(1M)
in a file. strings:	extract the ASCII text strings. strings(1)
ICC message queue.	exWait, exCheck: examine an . . . exwait(2)
remainder,/ floor,ceil, fmod,	fabs: floor, ceiling, . . . . . floor(3M)
factor:	factor a number . . . . . factor(1)
true,	factor: factor a number . . . . . factor(1)
data in a machine-independent	false: provide truth values . . . true(1)
finc:	fashion. /access long integer . sputl(3X)
/calloc, malloc, mallinfo:	fast incremental backup . . . . . finc(1M)
abort: generate an IOT	fast main memory allocator. . . malloc(3X)
a stream.	fault . . . . . abort(3C)
	fclose, fflush: close or flush. fclose(3S)
	fcntl: file control . . . . . fcntl(2)
	fcntl: file control options . . . fcntl(5)
floating-point number/ ecvt,	fcvt, gcvt: convert . . . . . ecvt(3C)
fopen, freopen,	fdopen: open a stream . . . . . fopen(3S)
status inquiries. ferror,	feof, clearerr, fileno: stream. ferror(3S)
fileno: stream status/	ferror, feof, clearerr . . . . . ferror(3S)
statistics for a file system.	ff: list file names and . . . . . ff(1M)
stream. fclose,	fflush: close or flush a. . . . . fclose(3S)

word from a/	getc, getchar,	fgetc, getw: get character or	. get(3S)
/getgrnam, setgrent, endgrent,		fgetgrent: get group file/	. . . getgrent(3C)
/getpwnam, setpwent, endpwent,		fgetpwent: get password file/	. . . getpwent(3C)
stream.	gets,	fgets: get a string from a	. . . gets(3S)
pattern.	grep, egrep,	fgrep: search a file for a	. . . grep(1)
times.	utime: set	file access and modification	. . . utime(2)
ldfcn: common object		file access routines.	. . . . . ldfcn(4)
determine accessibility of a		file. access:	. . . . . access(2)
tar: tape		file archiver	. . . . . tar(1)
cpio: copy		file archives in and out.	. . . . . cpio(1)
cstrans: text-		file character-set translator	. . . cstrans(1)
formatter. /csoffset: print-		file character-set translator	. . . csoffset(1)
pwck, grpck: password/group		file checkers	. . . . . pwck(1M)
chmod: change mode of		file. . . . .	. . . . . chmod(2)
change owner and group of a		file chown:	. . . . . chown(2)
diff: differential		file comparator	. . . . . diff(1)
diff3: 3-way differential		file comparison	. . . . . diff3(1)
fentl:		file control.	. . . . . fentl(2)
fentl:		file control options.	. . . . . fentl(5)
system-to-computer system		file copy. /public computer	. . . uuto(1C)
core: format of core image		file. . . . .	. . . . . core(4)
umask: set and get		file creation mask.	. . . . . umask(2)
ctags: create a tags		file. . . . .	. . . . . ctags(1)
fields of each line of a		file. cut: cut out selected	. . . cut(1)
dd: convert and copy a		file. . . . .	. . . . . dd(1)
a delta (change) to an SCCS		file. delta: make	. . . . . delta(1)
close: close a		file descriptor	. . . . . close(2)
dup: duplicate an open		file descriptor	. . . . . dup(2)
wmsetid, wmsetids: associate a		file descriptor with a window	. . . wmsetid(3X)
		file: determine file type	. . . file(1)
hd: hexadecimal and ascii		file dump	. . . . . hd(1)
selected parts of an object		file. dump: dump.	. . . . . dump(1)
sact: print current SCCS		file editing activity	. . . . . sact(1)
endgrent, fgetgrent: get group		file entry. /setgrent, . . . . .	. . . . . getgrent(3C)
fgetpwent: get password		file entry. /endpwent, . . . . .	. . . . . getpwent(3C)
utmpname: access utmp		file entry. /endutent, . . . . .	. . . . . getut(3C)
putpwent: write password		file entry. . . . .	. . . . . putpwent(3C)
execlp, execvp: execute a		file. /execv, execl, execve, . . .	. . . . . exec(2)
grep, egrep, fgrep: search a		file for a pattern.	. . . . . grep(1)
path: locate executable		file for command.	. . . . . path(1)
ldaopen: open a common object		file for reading. ldaopen, . . .	. . . . . ldaopen(3X)
acct: per-process accounting		file format	. . . . . acct(4)
ar: common archive		file format	. . . . . ar(4)
errfile: error-log		file format	. . . . . errfile(4)
intro: introduction to		file formats.	. . . . . intro(4)
entries of a common object		file function. /line number	. . . ldread(3X)
get: get a version of an SCCS		file. . . . .	. . . . . get(1)
group: group		file. . . . .	. . . . . group(4)
files. filehdr:		file header for common object	. . . filehdr(4)

file. ldfhread: read the	file header of a common object. ldfhread(3X)
ldohseek: seek to the optional	file header of a common object/ ldohseek(3X)
split: split a	file into pieces. . . . . split(1)
issue: issue identification	file. . . . . issue(4)
of a member of an archive	file. /read the archive header. ldahread(3X)
close a common object	file. ldclose, ldaclose: . . . ldclose(3X)
file header of a common object	file. ldfhread: read the. . . ldfhread(3X)
a section of a common object	file. /line number entries of. ldlseek(3X)
file header of a common object	file. /seek to the optional. . ldohseek(3X)
a section of a common object	file. /relocation entries of. ldrseek(3X)
header of a common object	file. /indexed/named section. idshread(3X)
section of a common object	file. /to an indexed/named. . idsseek(3X)
table entry of a common object	file. /the index of a symbol. ldtbindex(3X)
table entry of a common object	file. /read an indexed symbol. ldtbread(3X)
table of a common object	file. /seek to the symbol. . . ldtbseek(3X)
entries in a common object	file. linenum: line number. . . linenum(4)
link: link to a	file. . . . . link(2)
access to regions of a	file. locking: exclusive. . . locking(2)
mknod: build special	file. . . . . mknod(1M)
or a special or ordinary	file. /make a directory. . . . . mknod(2)
ctermid: generate	file name for terminal. . . . . ctermid(3S)
mktemp: make a unique	file name. . . . . mktemp(3C)
a file system. ff: list	file names and statistics for. ff(1M)
change the format of a text	file. newform: . . . . . newform(1)
name list of common object	file. nm: print. . . . . nm(1)
null: the null	file. . . . . null(7)
/find the slot in the utmp	file of the current user. . . . ttyslot(3C)
Input/output on a RTOS	file. ofRead, or!write: . . . . ofread(3X)
OFRENAME: rename a RTOS	file. . . . . ofrename(3X)
/identify processes using a	file or file structure. . . . . fuser(1M)
one. creat: create a new	file or rewrite an existing. . . creat(2)
passwd: password	file. . . . . passwd(4)
or subsequent lines of one	file. /lines of several files. . paste(1)
soft-copy terminals. pg:	file perusal filter for. . . . . pg(1)
/rewind, ftwll: reposition a	file pointer in a stream. . . . fseek(3S)
lseek: move read/write	file pointer. . . . . lseek(2)
prs: print an SCCS	file. . . . . prs(1)
read: read from	file. . . . . read(2)
for a common object	file. /relocation information. . reloc(4)
remove a delta from an SCCS	file. rmdel: . . . . . rmdel(1)
bfs: big	file scanner. . . . . bfs(1)
two versions of an SCCS	file. sccsdiff: compare. . . . . sccsdiff(1)
sccsfile: format of SCCS	file. . . . . sccsfile(4)
header for a common object	file. schhdr: section. . . . . schhdr(1)
openi: open a	file specified by i-node. . . . openi(2)
ofSetFileStatus: RTOS	file Status. ofGetFileStatus. . ofstatus(3X)
stat, fstat: get	file status. . . . . stat(2)
the ASCII text strings in a	file. strings: extract. . . . . strings(1)
from a common object	file. /line number information. strip(1)

processes using a file or	file structure. /identify . . .	fuser(1M)
checksum and block count of a	file. sum: print. . . . .	sum(1)
swrite: synchronous write on a	file. . . . .	swrite(2)
/symbol name for common object	file symbol table entry . . . .	ldgetname(3X)
syms: common object	file symbol table format. . . .	syms(4)
and interactive/ fsck, dfsck:	file system consistency check .	fsck(1M)
fsdh:	file system debugger. . . . .	fsdh(1M)
names and statistics for a	file system. ff: list file. . . .	ff(1M)
fs: format of	file system . . . . .	fs(4)
mkfs: construct a	file system . . . . .	skfs(1M)
umount: mount and dismount	file system. mount, . . . . .	mount(1M)
mount: mount a	file system . . . . .	mount(2)
copy to or from the RTOS	file system. ofcopy: . . . . .	ofcopy(1M)
crup: create	file system partition (slice)..	crup(1M)
ustat: get	file system statistics. . . . .	ustat(2)
mnttab: mounted	file system table . . . . .	mnttab(4)
umount: unmount a	file system . . . . .	umount(2)
access time. dcopy: copy	file systems for optimal. . . . .	dcopy(1M)
fsck. checklist: list of	file systems processed by . . . .	checklist(4)
volcopy, labelit: copy	file systems with label/. . . . .	volcopy(1M)
deliver the last part of a	file. tail: . . . . .	tail(1)
term: format of compiled term	file. . . . .	term(4)
tmpfile: create a temporary	file. . . . .	tmpfile(3S)
create a name for a temporary	file. tmpnam, tmpnam: . . . . .	tmpnam(3S)
and modification times of a	file. touch: update access. . . .	touch(1)
ftw: walk a	file tree . . . . .	ftw(3C)
file: determine	file type . . . . .	file(1)
undo a previous get of an SCCS	file. unget: . . . . .	unget(1)
report repeated lines in a	file. uniq: . . . . .	uniq(1)
val: validate SCCS	file. . . . .	val(1)
write: write on a	file. . . . .	write(2)
umask: set	file-creation mode mask . . . . .	umask(1)
common object files.	filehdr: file header for. . . . .	filehdr(4)
ferror, feof, clearerr,	fileno: stream status/. . . . .	ferror(3S)
and print process accounting	file(s). acctoom: search. . . . .	acctoom(1)
merge or add total accounting	files. acctmerg: . . . . .	acctmerg(1M)
create and administer SCCS	files. admin: . . . . .	admin(1)
/improvement in large	files and direct I/O. . . . .	pillf(5)
ofls: list RTOS	files and directories . . . . .	ofls(1M)
cat: concatenate and print	files . . . . .	cat(1)
cmp: compare two	files . . . . .	cmp(1)
lines common to two sorted	files. comm: select or reject .	comm(1)
cp, ln, mv: copy, link or move	files . . . . .	cp(1)
mark differences between	files. diffmk: . . . . .	diffmk(1)
file header for common object	files. filehdr: . . . . .	filehdr(4)
find: find	files . . . . .	find(1)
frec: recover	files from a backup tape. . . . .	frec(1M)
format specification in text	files. fspec: . . . . .	fspec(4)
fortran, ratfor, or efl	files. fsplit: split. . . . .	fsplit(1)



cpset: install object	files in binary directories . . .	cpset(1M)
intro: introduction to special	files . . . . .	intro(7)
link editor for common object	files. ld: . . . . .	ld(1)
terminal download	files. /term.cnfg: configure . . .	term.cnfg(1M)
ofDelete: Allocate RTOS	files. /ofChangeFileLength, . . .	ofcreate(3X)
ofed, ofvi: edit RTOS	files.. . . . .	ofeditors(1M)
ofCloseAllFiles: Access RTOS	files. /ofCloseFile,. . . . .	ofopen(3C)
rm,rmdir: remove	files or directories. . . . .	rm(1)
/merge same lines of several	files or subsequent lines of/ . . .	paste(1)
unpack: compress and expand	files. pack, pcat,. . . . .	pack(1)
pr: print	files . . . . .	pr(1)
action sizes of common object	files. size: print. . . . .	size(1)
sort: sort and/or merge	files . . . . .	sort(1)
what: identify SCCS	files . . . . .	what(1)
terminals. pg: file perusal	filter for soft-copy. . . . .	pg(1)
greek: select terminal	filter. . . . .	greek91)
nl: line numbering	filter. . . . .	nl(1)
col:	filter reverse line-feeds . . .	col(1)
/exCnxSendOnDealloc: make	final requests. . . . .	exfinal(2)
	finc: fast incremental backup . . .	finc(1M)
	find files. . . . .	find(1)
	find: find files. . . . .	find(1)
	find hyphenated words . . . . .	hyphen(1)
	find name of a terminal . . . . .	ttyname(3C)
	find ordering relation for an . . .	lorder(1)
	find spelling errors. spell,. . .	spell(1)
	find the slot in the utmp file. . .	ttyslot(3C)
	finite width output device. . . .	file(1)
	fitting . . . . .	tee(1)
	floating-point number . . . . .	atof(3C)
	floating-point number to/ . . . .	ecvt(3C)
	floating-point numbers. . . . .	frexp(3C)
	floor, ceil, fmod, fabs:. . . . .	floor(3M)
	floor, ceiling, remainder,/ . . .	floor(3M)
fp: winchester, cartridge, and	floppy disks. . . . .	fp(7)
dismount: remove	floppy or cartridge disk. . . . .	dismount(1)
cflow: generate C	flow graph. . . . .	cflow(1)
fclose, fflush: close or	flush a stream. . . . .	fclose(3S)
remainder,/ floor, ceil,	fmod, fabs: floor, ceiling, . . .	floor(3M)
finite width output device.	fold: fold long lines for . . . .	fold(1)
width ouput device. fold:	fold long lines for finite. . . .	fold(1)
stream.	fopen, freopen, fdopen: open a . .	fopen(3S)
	fork: create a new process. . . .	fork(2)
per-process accounting file	format. acct: . . . . .	acct(4)
ar: common archive file	format. . . . .	ar(4)
errfile: error-log file	format. . . . .	errfile(4)
nroff or/ eqn, neqn, checked:	format mathematical text for. . .	eqn(1)
newform: change the	format of a text file . . . . .	newform(1)
inode:	format of an i-node . . . . .	inode(4)

term:	format of compiled term file. . . . .	term(4)
core:	format of core image file . . . . .	core(4)
cpio:	format of cpio archive. . . . .	cpio(4)
dir:	format of directories . . . . .	dir(4)
fs:	format of file system . . . . .	fs(4)
scsfile:	format of SCCS file . . . . .	scsfile(4)
files. fspec:	format specification in text. . . . .	fspec(4)
object file symbol table	format. syms: common. . . . .	syms(4)
troff. tbl:	format tables for nroff or. . . . .	tpl(1)
nroff:	format text . . . . .	nroff(1)
intro: introduction to file	formats . . . . .	intro(4)
wtmp: utmp and wtmp entry	formats. utmp,. . . . .	utmp(4)
scanf, fscanf, sscanf: convert	formatted input . . . . .	scanf(3S)
/vfprintf, vsprintf: print	formatted output of a varargs/. . . . .	vprint(3S)
fprintf, sprintf: print	formatted output. printf, . . . . .	printf(3S)
checkmm: print/check documents	formatted with the MM macros. . . . .	mm(1)
character-set translator and	formatter. /csoffset:	
	print-file. . . . .	csoffset(1)
mptx: the macro package for	formatting a permuted index . . . . .	mptx(5)
mm: the MM macro package for	formatting documents. . . . .	mm(5)
manual. man: macros for	formatting entries in this. . . . .	man(5)
files. fsplit: split	fortran, ratfor, or efl . . . . .	fsplit(1)
floppy disks.	fp: winchester, cartridge, and. . . . .	fp(7)
formatted output. printf,	fprintf, sprintf: print . . . . .	printf(3S)
word on a/putc, putchar,	fputc, outw: put character or . . . . .	putc(3S)
stream. puts,	fputs: put a string on a. . . . .	puts(3S)
input/output.	fread, fwrite: binary . . . . .	fread(3S)
backup tape.	frec: recover files from a. . . . .	frec(1M)
df: report number of	free disk blocks. . . . .	df(1M)
memory allocator. malloc,	free, realloc, calloc: main . . . . .	malloc(3C)
malloc, mallinfo:/ malloc,	free, realloc, calloc,. . . . .	malloc(3X)
stream. fopen,	freopen, fdopen: open a . . . . .	fopen(3S)
parts of floating-point/	frexp, ldexp, modf: manipulate. . . . .	frexp(3C)
frec: recover files	from a backup tape. . . . .	frec(1M)
/and line number information	from a common object file . . . . .	strip(1)
getw: get character or word	from a stream. /fgetc,. . . . .	getc(3S)
gets, fgets: get a string	from a stream . . . . .	gets(3S)
/exDiscard: remove a response	from an exchange. . . . .	excpresp(2)
rmDEL: remove a delta	from an SCCS file . . . . .	rmDEL(1)
getopt: get option letter	from argument vector. . . . .	getopt(3C)
records and status information	from dump. /extract error . . . . .	errdead(1M)
read: read	from file . . . . .	read(2)
ncheck: generate names	from i-numbers. . . . .	ncheck(1M)
nlist: get entries	from name list. . . . .	nlist(3C)
acctcms: command summary	from per-process accounting/. . . . .	acctcms(1M)
ofcopy: copy to or	from the RTOS file system . . . . .	ofcopy(1M)
getpw: get name	from UID. . . . .	getpw(3C)
	fs: format of file system . . . . .	fs(4)
formatted input. scanf,	fscanf, sscanf: convert . . . . .	scanf(3S)

of file systems processed by consistency check and/ a lost+found directory for	fsck, checklist: list . . . . . checklist(4)
reposition a file pointer in/ text files.	fsck, dfsck: file system. . . . . fsck(1M)
or efl files.	fsck, mklost+found: make. . . . . mklost+found(1)
stat,	fsdb: file system debugger. . . . . fsdb(1M)
pointer in a/fseek, rewind, cp,,imocatopm [aclage	fseek, rewind, ftell: . . . . . fseek(3S)
error/ erf, erfc: error and complementary error	fspec: format specification in. fspec(4)
gamma: log gamma	fsplit: split fortran, ratfor,. fsplit(1)
hypot: Euclidean distance of a common object file	fstat: get file status. . . . . stat(?)
matherr: error-handling	ftell: reposition a file. . . . . fseek(3S)
prof: profile within a	(ftok). /standard interprocess. stdipe(3C)
math: math	ftw: walk a file tree . . . . . ftw(3C)
J0, j1, jn, y0, y1, yn: Bessel	function and complementary. . . erf(3M)
logarithm, power, square root	function. /error function . . . erf(3M)
remainder, absolute value	function. . . . . gamma(3M)
ocurse: optimized screen	function. . . . . hypot(3M)
300, 300s: handle special	function. /line number entries. ldread(3X)
hp: handle special	function. . . . . matherr(3M)
terminal. 450: handle special	function. . . . . prof(5)
RTOS directory	functions and constants . . . . . math(5)
sinh, cosh, tanh: hyperbolic	functions . . . . . bessel(3M)
atan, atan?: trigonometric	functions. /sqrt: exponential,. exp(3M)
using a file or file/	functions. /floor, ceiling, . . floor(3M)
fread,	functions . . . . . occurs(3X)
connect accounting records.	functions of DASI 300 and 300s/ 300(1)
moo: guessing	functions of HP 2640 and/ . . . hp(1)
back: the	functions of the DASI 450 . . . 450(1)
bj: the	functions. /ofReadDirSector:. . ofdir(3X)
craps: the	functions . . . . . sinh(3M)
wump: the	functions. /tan, asin, acos,. . trig(3M)
trk: trekkie	fuser: identify processes . . . fuser(1M)
intro: introductionto	fwrite: binary input/output . . fwrite(3S)
gamma: log	fwtmp, wtmpfix: manipulate. . . fwtmp(1M)
number to string. ecvt, fcvt,	game. . . . . moo(6)
maze:	game of backgammon. . . . . back(6)
abort:	game of black jack. . . . . bj(6)
cflow:	game of craps . . . . . craps(6)
reference. cxref:	game of hunt-the-wumpus . . . . wump(6)
crypt, setkey, encrypt	game. . . . . trk(6)
makekey:	games . . . . . intro(6)
terminal. ctermid:	gamma function. . . . . gamma(3M)
	gamma: log gamma function . . . gamma(3M)
	gcvt: convert floating-point. . ecvt(3C)
	generate a maze . . . . . maze(6)
	generate an IOT fault . . . . . abort(3C)
	generate C flow graph . . . . . cflow(1)
	generate C program cross. . . . cxref(1)
	generate DES encryption . . . . crypt(3C)
	generate encryption key . . . . makekey(1)
	generate file name for. . . . . ctermid(3S)

ncheck:	generate names from i-numbers . ncheck(1M)
lexical tasks. lex:	generate programs for simple. . lex(1)
/srand4R, seed4R, lcong4R:	generate uniformly distributed/ drand4R(3C)
srand:simple random-number	generator. rand,. . . . . rnad(3C)
gets, fgets:	get a string from a stream. . . sets(3S)
get:	get a version of an SCCS file . get(1)
ulimit:	get and set user limits . . . . ulimit(2)
the user, cuserid:	get character login name of . . cuserid(3S)
getc, getchar, fgets, getw:	get character or word from a/ . getc(3S)
nlist:	get entries from name list. . . nlist(3C)
umask: set and	get file creation mask. . . . . umask(2)
stat, fstat:	get file status . . . . . stat(2)
ustat:	get file system statistics. . . ustat(2)
file.	get: get a version of an SCCS . get(1)
setgrent, endgrent, fgetgrent:	get group file entry. . . . . getgrent(3C)
getlogin:	get login name. . . . . getlogin(3C)
logname:	get login name. . . . . logname(1)
msgget:	get message queue . . . . . msgget(2)
getpw:	get name from UID . . . . . getpw(3C)
system. uname:	get name of current operating system. . . . . uname(2)
unget: undo a previous	get of an SCCS file . . . . . unget(1)
argument vector. getopt:	get option letter from. . . . . getopt(3C)
setpwent, endpwent, fgetpwent:	get password file entry . . . . getpwent(3C)
working directory. getcwd:	get path-name of current. . . . getcwd(3C)
times. times:	get process and child process . times(2)
and/ getpid, getppid, getppid:	get process, process group, . . getpid(2)
/geteuid, getgid, getegid:	get real user, effective user,/ getuid(2)
semget:	get set of semaphores . . . . . semget(2)
shmget:	get shared memory segment . . . shmget(2)
wmlayout:	get terminal's window layout. . wmlayout(3X)
tty:	get the terminal's name . . . . . tty(1)
time:	get time. . . . . time(2)
wmgetid:	get window ID . . . . . wmgetid(3X)
get character or word from a/	getc, getchar, fgets, getw: . . . getc(3S)
character or word from/ getc,	getchar, fgets, getw: get . . . . getc(3S)
current working directory.	getcwd: get path-name of. . . . getcwd(3C)
getuid, geteuid, getgid,	getegid: get real user,/ . . . . getuid(2)
environment name.	getenv: return value for. . . . getenv(3C)
real user, effective/ getuid,	geteuid, getgid, getegid: get . . getuid(2)
user,/ getuid, geteuid,	getgid, getegid: get real . . . . getuid(2)
setgrent, endgrent,/	getgrent, getgrgid, getgrnam, . . getgrent(3C)
endgrent,/ getgrent,	getgrgid, getgrnam, setgrent, . . getgrent(3C)
getgrent, getgrgid,	getgrnam, setgrent, endgrent,/ . getgrent(3C)
argument vector.	getlogin: get login name. . . . getlogin(3C)
getopt:	getopt: get option letter from. getopt(3C)
getopt:	getopt: parse command options . getopt(1)
getpass:	getpass: read a password. . . . getpass(3C)
process group, and/ getpid,	getppid, getppid: get process,. . . . getpid(2)

process, process group, and/ group, and/ getpid, getpgrp,	getpid, getpgrp, getppid: get . getpid(2)
setpwent, endpwent,/ getpwent, getpwuid, endpwent, / getpwent, a stream.	getppid: get process, process . getpid(2) getpw: get name from UID. . . . getpw(3C) getpwent, getpwuid, getpwnam, . getpwent(3C) getpwnam, setpwent, endpwent, / . getpwent(3C) getpwuid, getpwnam, setpwent. . getpwent(3C)
and terminal settings used by modes, speed, and line/ ct: spawn	gets, fgets: get a string from. gets(3S) getty. gettydefs: speed . . . . gettydefs(4) getty: set terminal type, . . . . getty(1M) getty to a remote terminal. . . . ct(1C)
settings used by getty. getegid: get real user,/ pututline, setutent,/ setutent, endutent, / getutent, setutent, / getutent, getutid, from a/ getc, getchar, fgetc, convert/ ctime, localtime, setjmp, longjmp: non-local cflow: generate C flow	gettydefs: speed and terminal . gettydefs(4) getuid, seteuid, getgid, . . . . getuid(2) getutent, getutid, getutline, . . getut(3C) getutid, getutline, pututline, . getut(3C) getutline, pututline, . . . . . getut(3C) getw: get character or word . . . . getc(3S) gmtime, asctime, tzset: . . . . . ctime(3C) goto. . . . . setjmp(3C) graph . . . . . cflow(1) graph: draw a graph . . . . . graph(1G) graph . . . . . graph(1G) graphics interface. . . . . plot(#X) graphs, and slides. mmt, . . . . . mmt(1) greek: select terminal filter . greek(1) grep, egrep, fgrep: search a . grep(1)
graph: draw a subroutines. plot: mvt: typeset documents, view  file for a pattern. /user, effective user, real /getppid: get process, process chownb, chgrp: change owner of endgrent, fgetgrent: get group:	group, and effective group/ . . . . getuid(2) group, and parent process IDs . . . . getpid(2) group . . . . . chown(1) group file entry. /setgrent, . . . . getgrent(3C) group file. . . . . group(4) group: group file . . . . . group(4) group ID. . . . . setpgrp(2) group IDs and names . . . . . id(1) group IDs /effective user, . . . . getuid(2) group IDs . . . . . setuid(2) group . . . . . newgrp(1) group of a file . . . . . chown(2) group of processes. /send . . . . . kill(2) groups of programs. /maintain, . . . . make(1) grpck: password/group file. . . . pwck(1M) gsignal: software signals . . . . ssignal(3C) guess the word. . . . . hangman(6) guessing game . . . . . moo(6)
setpgrp: set process id: print user and real group, and effective setuid, setgid: set user and newgrp: log in to a new chown: change owner and a signal to a process or a update, and regenerate checkers. pwck, ssignal, hangman: moo:	halt: terminate all . . . . . shutdown(1M) handle special functions of . . . . 300(1) handle special functions of HP. hp(1) handle special functions of . . . . 450(1) handle variable argument list . . . . varargs(5) handling and optimization . . . . curses(3X)
processing. shutdown, DASI 300 and 300s/ 300, 300s: 2640 and 2621-series/ hp: the DASI 450 terminal. 450: varargs: package. curses: CRT screen	

nohup: run a command immune to	hangman: guess the word . . . .	hangman(6)
hcreate, hdestroy: manage	hangups and quits . . . . .	nohup(1)
spell, hasmake, spellin,	hash search tables. hsearch, . .	hsearch(3C)
find spelling errors. spell,	hashsheck: find spelling/ . . .	spell(1)
search tables. hsearch,	hasmake, spellin, hashcheck: . .	spell(1)
dump.	hcreate, hdestroy: manage hash.	hsearch(3C)
tables. hsearch, hcreate,	hd: hexadecimal and ascii file.	hd(1)
file. scnhdr: section	hdestroy: manage hash search. . .	hsearch(3C)
files. filehdr: file	header for a common object. . . .	scnhdr(4)
file. ldfhread: read the file	header for common object. . . . .	filehdr(4)
/seek to the optional file	header of a common object . . . .	ldfhread(3X)
/read an indexed/named section	header of a common object/. . . .	ldohseek(3X)
ldahread: read the archive	header of a common object/. . . .	ldshread(3X)
	header of a member of an/ . . . .	ldahread(3X)
help: ask for	help: ask for help. . . . .	help(1)
dump. hd:	help. . . . .	help(1)
handle special functions of	hexadecimal and ascii file. . . .	hd(1)
of HP 2640 and 2621-series/	HP 2640 and 2621-series/ hp: . . .	hp(1)
manage hash search tables.	hp: handle special functions. . .	hp(1)
wump: the game of	hsearch, hcreate, hdestroy: . . .	hsearch(3C)
sinh, cosh, tanh:	hunt-the-wumpus . . . . .	wump(6)
	hyperbolic functions. . . . .	sinh(3M)
hyphen: find	hyphen: find hyphenated words . .	hyphen(1)
function.	hyphenated words. . . . .	hyphen(1)
ex!ait, exCheck: examine an	hypot: Euclidean distance . . . .	hypot(3M)
control initialization. init,	ICC message queue . . . . .	exwait(2)
semaphore set or shared memory	icode, telinit: process . . . . .	init(1M)
and names.	id. /remove a message queue, . . .	ipcrm(1)
setpgrp: set process group	id: print user and group IDs. . .	id(1)
wmgetid: get window	ID. . . . .	setpgrp(2)
issue: issue	ID. . . . .	wmgetid(3X)
file or file/ fuser:	identification file . . . . .	issue(4)
what:	identify processes using a. . . .	fuser(1M)
id: print user and group	identify SCCS files . . . . .	what(1)
group, and parent process	IDs and names . . . . .	id(1)
group, and effective group	IDs. /get process, process. . . .	getpid(2)
setgid: set user and group	IDs. /effective user, real. . . .	getuid(2)
core: format of core	IDs setuid, . . . . .	setuid(2)
crash: examine system	image file. . . . .	core(4)
nohup: run a command	images. . . . .	crash(1M)
direct/ pilf, dio: performance	immune to hangups and quits . . .	nohup(1)
finc: fast	improvement in large files and.	pilf(5)
/tgoto, tputs: terminal	incremental backup. . . . .	finc(1M)
for formatting a permuted	independent operations. . . . .	termcap(3X)
of a/ ldtbindex: compute the	index. /the macro package . . . .	mptx(5)
ptx: permuted	index of a symbol table entry . .	ldtbindex(3X)
a common/ ldtbread: read an	index . . . . .	ptx(10)
ldshread, ldnsbread: read an	indexed symbol table entry of . .	ldtbread(3X)
	indexed/named section header/ . .	ldshread(3X)

ldsseek, ldnseek: seek to an control initialization.	indexed/named section of a/ . . . insseek(3X)
inittab: script for the telinit: process control	init, icode, telinit: process . . . init(1M)
/allrc, conrc, ttrc: system initialization shell scripts.	init process. . . . . inittab(4)
/re, allrc, conrc: system initialization shell scripts.	initialize a character-set. . . csinit(3X)
translation table. /csinit: initialize and maintain . . . iv(1)	initialize new window . . . . . nw(1)
volume. iv: initialize terminal I/O . . . . . itt(1M)	initiate pipe to/from a . . . . . popen(3S)
nw: initialize new window . . . . . nw(1)	inittab: script for the init. . . inittab(4)
translation. /itt: initialize terminal I/O . . . . . itt(1M)	i-node. . . . . clri(1M)
process. popen, pclose: initiate pipe to/from a . . . . . popen(3S)	inode: format of an i-node. . . . . inode(4)
process. inittab: script for the init. . . inittab(4)	i-node. . . . . inode(4)
clri: clear i-node. . . . . clri(1M)	i-node. openi: . . . . . openi(2)
inode: format of an open a file specified by start and stop terminal	input and output. /manually . . . rsterm(1M)
sscanf: fonvert formatted input. scanf, fscanf, . . . . . scanf(3S)	input stream. ungetc: . . . . . ungetc(3S)
push character back into input/output. . . . . fread(3S)	Input/output on a RTOS file . . . ofread(3X)
fread, fwrite: binary input/output package. . . . . stdio(3S)	inquiries. /feof, clearerr, . . . ferror(3S)
ofRead, ofWrite: Input/output on a RTOS file . . . ofread(3X)	inquiry and job control . . . . . uustat(1C)
stdio: standard buffered inquireies. /feof, clearerr, . . . ferror(3S)	install commands. . . . . install(1M)
fileno: stream status inquireies. /feof, clearerr, . . . ferror(3S)	install: install commands . . . . . install(1M)
uustat: uucp status inquireies. /feof, clearerr, . . . ferror(3S)	install object files in binary. cpset(1M)
install: inquireies. /feof, clearerr, . . . ferror(3S)	inteface, and terminal/ . . . . . tset(1)
directories. cpset: inquireies. /feof, clearerr, . . . ferror(3S)	integer absolute value. . . . . abs(3C)
tset: set terminal, terminal inquireies. /feof, clearerr, . . . ferror(3S)	integer and base-64 ASCII/. . . . a64i(3C)
abs: return inquireies. /feof, clearerr, . . . ferror(3S)	integer data in a/. . . . . sputl(3X)
/l64a; convert between long inquireies. /feof, clearerr, . . . ferror(3S)	integer. strtol, . . . . . strtol(3C)
sputl, sgetl: access long inquireies. /feof, clearerr, . . . ferror(3S)	integers and long integers. . . . l3tol(3C)
atol, stoi: convert string to inquireies. /feof, clearerr, . . . ferror(3S)	integers. /convert between. . . . l3tol(3C)
/ltol3: convert between 3-byte inquireies. /feof, clearerr, . . . ferror(3S)	interactive block copy. . . . . bcopy(1M)
3-byte integers and long inquireies. /feof, clearerr, . . . ferror(3S)	interactive RTOS JCL. ofcli: . . . ofcli(1M)
bcopy: inquireies. /feof, clearerr, . . . ferror(3S)	interactive message processing. mailx(1)
command line interpreter for inquireies. /feof, clearerr, . . . ferror(3S)	interactive repair. /file . . . . fsck(1M)
system. mailx: inquireies. /feof, clearerr, . . . ferror(3S)	interface . . . . . err(7)
system consistency check and inquireies. /feof, clearerr, . . . ferror(3S)	interface. /cstermio: terminal cstermio(7)
err: error-logging inquireies. /feof, clearerr, . . . ferror(3S)	interface for magnetic tape . . . mt(7)
I/O character-set inquireies. /feof, clearerr, . . . ferror(3S)	interface . . . . . lp(7)
mt: inquireies. /feof, clearerr, . . . ferror(3S)	interface subroutines . . . . . plot(3X)
lp: parallel printer inquireies. /feof, clearerr, . . . ferror(3S)	interface . . . . . termio(7)
plot: graphics inquireies. /feof, clearerr, . . . ferror(3S)	interface . . . . . tty(7)
termio: general terminal inquireies. /feof, clearerr, . . . ferror(3S)	interpolate smooth curve. . . . . spline(1G)
tty: controlling terminal inquireies. /feof, clearerr, . . . ferror(3S)	interpret ASA carriage control. asa(1)
spline inquireies. /feof, clearerr, . . . ferror(3S)	interpreter for interactive . . . ofcli(1M)
characters. asa: inquireies. /feof, clearerr, . . . ferror(3S)	interprocess channel. . . . . pipe(2)
RTOS JCL. ofcli: command line inquireies. /feof, clearerr, . . . ferror(3S)	
pipe: create an inquireies. /feof, clearerr, . . . ferror(3S)	

facilities/ ipcs: report	inter-process communication . . .	ipcs(1)
package/ stdipc: standard	interprocess communication. . .	stdipc(3C)
suspend execution for an	interval. sleep:. . . . .	sleep(1)
sleep: suspend execution for	interval. . . . .	sleep(3C)
commands and application/	intro: introduction to. . . . .	intro(1)
formats.	intro: introduction to file . .	intro(4)
	intro: introduction to games. .	intro(6)
miscellany.	intro: introduction to. . . . .	intro(5)
files.	intro: introduction to special.	intro(7)
subroutines and libraries.	intro: introduction to. . . . .	intro(3)
calls and error numbers.	intro: introduction to system .	intro(2)
application programs. intro:	introduction to commands and. .	intro(1)
	introduction to file formats. .	intro(4)
	introduction to games . . . . .	intro(6)
	introduction to miscellany. . .	intro(5)
	introduction to special files .	intro(7)
and libraries. intro:	introduction to subroutines . .	intro(3)
and error numbers. intro:	introduction to system calls. .	intro(2)
ncheck: generate names from	i-numbers . . . . .	ncheck(1M)
estermio: terminal	I/O character-set interface . .	estermio(7)
in large files and direct	I/O. /performance improvement .	pilf(5)
initialize terminal	I/O translation. /itt: . . . . .	itt(1M)
	ioctl: control device . . . . .	ioctl(2)
abort: generate an	IOT fault . . . . .	abort(3C)
semaphore set or shared/	ipcrm: remove a message queue,. .	ipcrm(1)
communication facilities/	ipcs: report inter-process. . . .	ipcs(1)
/islower, isdigit, isxdigit,	isalnum, isspace, ispunct,/ . .	ctype(3C)
isdigit, isxdigit, isalnum,/	isalpha, isupper, islower,. . .	ctype(3C)
/isprint, isgraph, isctrl,	isascii: classify characters. . .	ctype(3C)
terminal. ttyname,	isatty: find name of a. . . . .	ttyname(3C)
/ispunct, isprint, isgraph,	isctrl, isascii: classify/ . . .	ctype(3C)
isalpha, isupper, islower,	isdigit, isxdigit, isalnum,/ . .	ctype(3C)
/isspace, ispunct, isprint,	isgraph, isctrl, isascii:/ . . .	ctype(3C)
isalnum,/ isalpha, isupper,	islower, isdigit, isxdigit, . .	ctype(3C)
/isalnum, isspace, ispunct,	isprint, isgraph, isctrl,/ . . .	ctype(3C)
/isxdigit, isalnum, isspace,	ispunct, isprint, isgraph,/ . .	ctype(3C)
/isdigit, isxdigit, isalnum,	isspace, ispunct, isprint,/ . .	ctype(3C)
system:	issue a shell command . . . . .	system(3S)
issue:	issue identification file . . . .	issue(4)
file:	issue: issue identification . . .	issue(4)
isxdigit, isalnum,/ isalpha,	isupper, islower, isdigit,. . .	ctype(3C)
/isupper, islower, isdigit,	isxdigit, isalnum, isspace,/ . .	ctype(3C)
news: print news	items . . . . .	news(1)
translation.	itt: initialize terminal I/O. . .	itt(1M)
volume.	iv: initialize and maintain . . .	iv(1)
functions.	j0, j1, jn, y0, y1, yn: Bessel. .	bessel(3M)
functions. j0,	j1, jn, y0, y1, yn: Bessel. . .	bessel(3M)
bj: the game of black	jack. . . . .	bj(6)
for interactive RTOS	JCL. /command line interpreter. .	ofcli(1M)



functions. j0, j1,	jn, y0, y1, yn: Bessel. . . . .	bessel(3M)
operator.	join: relational database . . . . .	join(1)
/lrand48, nrand48, mrand48,	jrand48, srand48, seed48,/. . . . .	drand48(3C)
mkboot: reformat operating		
system	kernel and copy it to RTOS. . . . .	mkboot(1M)
makekey: generate encryption	key . . . . .	makekey(1)
	keyprompt: application shell. . . . .	keyprompt(1)
	kill all active processes . . . . .	killall(1M)
killall:	kill: send a signal to a. . . . .	kill(2)
process or a group of/	kill: terminate a process . . . . .	kill(1)
	killall: kill all active. . . . .	killall(1M)
processes.	kmem: core memory . . . . .	mem(7)
mem,	knowledge . . . . .	quiz(6)
quiz: test your	l3tol, ltol3: convert between . . . . .	l3tol(3C)
3-byte integers and long/	l64a: convert between long. . . . .	l64l(3C)
integer and base-64/ 1641,	label checking. /labelit: . . . . .	volcopy(1M)
copy file systems with	labelit: copy file systems. . . . .	volcopy(1M)
with label checking. volcopy,	language. awk: pattern. . . . .	awk(1)
scanning and processing	language. bc: . . . . .	bc(1)
arbitrary-precision arithmetic	language preprocessor . . . . .	cpp(1)
cpp: the C	language. /standard/restricted. sh(1)	
command programming	lastlogin, monacct, nulladm,/ . . . . .	addtsh(1M)
chargefee, ckpacct, dodisk,	layout. wmlayout: . . . . .	wmlayout(3X)
get terminal's window	lcong48: generate uniformly/. . . . .	drand48(3C)
/jrand48, srand48, seed48,	ld: link editor for common. . . . .	ld(1)
object files.	ldaclose: close a common. . . . .	ldclose(3X)
object file. ldclose,	ldahread: read the archive. . . . .	ldahread(3X)
header of a member of an/	ldaopen: open a common object . . . . .	ldopen(3X)
file for reading. ldopen,	ldclose, ldaclose: close a. . . . .	ldclose(3X)
common object file.	ldexp, modf: manipulate parts . . . . .	frexp(3C)
of floating-point/ frexp,	ldfcn: common object file . . . . .	ldfcn(4)
access routines.	ldfhread: read the file header. . . . .	ldfhread(3X)
of a common object file.	ldgetname: retrieve symbol. . . . .	ldgetname(3X)
name for common object file/	ldlinit, ldlitem: manipulate. . . . .	ldlread(3X)
line number entries/ldlread,	ldliter: manipulate line. . . . .	ldlread(3X0)
number/ ldlread, ldlinit,	ldlread, ldlinit, ldlitem: . . . . .	ldlread(3X)
manipulate line number/	ldlseek, ldlseek: seek to line . . . . .	ldlseek(3X0)
number entries of a section/	ldnrseek: seek to relocation. . . . .	ldnrseek(3X)
entries of a section/ ldrseek,	ldnshread: read an. . . . .	ldshread(3X)
indexed/named/ ldshread,	ldnsseek: seek to an. . . . .	ldsseek(3X)
indexed/named/ ldsseek,	ldohseek: seek to the optional. . . . .	ldohseek(3X)
file header of a common/	ldopen, ldaopen: open a common. . . . .	ldopen(3X)
object file for reading.	ldrseek, ldnrseek: seek to. . . . .	ldrseek(3X)
relocation entries of a/	ldshread, ldnshread: read an. . . . .	ldshread(3X)
indexed/named section header	ldsseek, ldnsseek: seek to an . . . . .	ldsseek(3X)
indexed/named section of a/	ldtbindex: compute the index. . . . .	ldtbindex(3X)
of a symbol table entry of a/	ldtbread: read an indexed . . . . .	ldtbread(3X)
symbol table entry of a/	ldtbseek: seek to the symbol. . . . .	ldtbseek(3X)
table of a common object/	letter from argument vector . . . . .	getopt(3C)
getopt: get option		

simple lexical tasks.	lex: generate programs for. . .	lex(1)
generate programs for simple	lexical tasks, lex: . . . . .	lex(1)
update. lsearch,	!find: linear search and. . . .	lsearch(3C)
to subroutines and	libraries. /introduction. . . .	intro(3)
relation for an object	library. /find ordering . . . .	lorder(1)
portable/ ar: archive and	library maintainer for. . . . .	ar(1)
ulimit: get and set user	limits. . . . .	ulimit(2)
an out-going terminal	line connection. /establish . .	dial(3C)
type, modes, speed, and	line discipline. /set terminal.	getty(1M)
interactive/ ofcli: command	line interpreter for. . . . .	ofcli(1M)
line: read one	line. . . . .	line(1)
common object file. linenum:	line number entries in a. . . .	linenum(4)
/ldlinit, ldlitem: manipulate	line number entries of a/ . . .	ldlread(3X)
ldlseek, ldnlseek: seek to	line number entries of a/ . . .	ldlseek(3X)
strip: strip symbol and	line number information from a/	strip(1)
nl:	line numbering filter . . . . .	nl(1)
out selected fields of each	line of a file. cut: cut. . . .	cut(1)
send/cancel requests to an LP	line printer. lp, cancel: . . .	lp(1)
lpset: set parallel	line printer options. . . . .	lpset(1M)
lpr:	line printer spooler. . . . .	lpr(1)
	line: read one line . . . . .	line(1)
	linear search and update. . . .	lsearch(3C)
lsearch, !find:	line-feeds. . . . .	col(1)
col: filter reverse	linenum: line number entries. .	linenum(4)
in a common object file.	lines common to two sorted. . .	comm(1)
files. comm: select or reject	lines for finite width output .	fold(1)
device. fold: fold long	lines . . . . .	head(1)
head: give first few	lines in a file . . . . .	uniq(1)
uniq: report repeated	lines of one file. /same lines.	paste(1)
f several files or subsequent	lines of several files or . . .	paste(1)
subsequent/ paste: merge same	link and unlink system calls. .	link(1M)
link, unlink: exercise	files. ld: link editor for common object	ld(1)
files. ld:	link editor output. . . . .	a_out(4)
a_out: common assembler and	link: link to a file. . . . .	link(2)
	link or move files. . . . .	cp(1)
cp, ln, mv: copy,	link to a file. . . . .	link(2)
link:	link, unlink: exercise link . .	link(1M)
and unlink system calls.	lint: a C program checker . . .	lint(1)
	list contents of directory. . . .	ls(1)
ls:	list RTOS files and . . . . .	ofls(1M)
directories. ofls:	list file names and statistics.	ff(1M)
for a file system. ff:	list. . . . .	nlist(3C)
nlist: get entries from name	list of common object file. . .	nm(1)
nm: print name	list of file systems processed.	checklist(4)
by fsck. checklist:	list of terminal types by . . .	ttytype(4)
terminal number. ttytype:	list. varargs: . . . . .	varargs(5)
handle variable argument	list. /print formatted. . . . .	vprintf(3S)
output of varargs argument	list(s) and execute command . .	sargs(1)
xargs: construct argument	ln, mv: copy, link or move . .	cp(1)
files. cp,		

tzset: convert date/ ctime,	localtime, gmtime, asctime, . . .	ctime(3C)
the virtual system/ conlocate:	locate a terminal to use as . . .	conlocate(1M)
command. path:	locate executable file for. . .	path(1)
end, etext, edata: last	locations in program. . . . .	end(3C)
regions of a file.	locking: exclusive access to. . .	locking(2)
gamma:	log gamma function. . . . .	gamma(3M)
newgrp:	log in to a new group . . . . .	newgrp(1)
exponential, logarithm,/ ejxp,	log, log10, pow, sqrt: . . . . .	exp(3M)
logarithm, power,/ exp, log,	log10, pow, sqrt: exponential, . .	exp(3M)
log10, pow, sqrt: exponential,	logarithm, power, square root/. .	exp(3M)
errprt: process a report of	logged errors . . . . .	errprt(3M)
getlogin: get	login name. . . . .	getlogin(3C)
logname: get	login name. . . . .	logname(1)
cuserid: get character	login name of the user. . . . .	cuserid(3S)
logname: return	login name of user. . . . .	logname(3X)
passwd: change	login password. . . . .	passwd(1)
setting up an environment at	login: sign on. . . . .	login(1)
user.	login time. profile: . . . . .	profile(4)
a64l, l64a: convert between	logname: get login name . . . . .	logname(1)
sputl, sgetl: access	logname: return login name of . .	logname(3X)
between 3-byte integers and	long integer and base-64 ASCII/ . .	a64l(3C)
output device. fold: fold	long integer data in a/ . . . . .	sputl(3X)
setjmp,	long integers. /l3tol3: convert. .	l3tol(3C)
for an object library.	long lines for finite width . . .	fold(1)
mklost+found: make a	longjmp: non-local goto . . . . .	setjmp(3C)
nice: run a command at	lorder: find ordering relation. . .	lorder(1)
requests to an LP line/	lost+found directory for fsck . . .	mklost+found(1)
send/cancel requests to an	low priority. . . . .	nice(1)
interface.	lp, cancel: send/cancel . . . . .	lp(1)
disable: enable/disable	LP line printer. lp, cancel: . . .	lp(1)
lpshut, lpmove: start/stop the	lp: parallel printer. . . . .	lp(7)
accept, reject: allow/prevent	LP printers. enable . . . . .	enable(1)
lpadmin: configure the	LP request scheduler and move/. . .	lpsched(1M)
lpstat: print	LP requests . . . . .	accept(1M)
spooling system.	LP spooling system. . . . .	lpadmin(1M)
the print system.	LP status information . . . . .	lstat(1)
request/ lpsched, lpshut,	lpadmin: configure the LP . . . . .	lpadmin(1M)
start/stop the LP request/	lp.cnfg: configure and maintain . .	lp.cnfg(1M)
printer options.	lpmove: start/stop the LP . . . . .	lpsched(1M)
LP request scheduler/ lnsched,	lpr: line printer spooler . . . . .	lpr(1)
information.	lpsched, lpshut, lpmove: . . . . .	lpsched(1M)
jrand48,/ drand48, erand48,	lpset: set parallel line. . . . .	lpset(1M)
directory.	lpshut, lpmove: start/stop the . .	lpsched(1M)
and update.	lpstat: print LP status . . . . .	lpstat(1)
pointer.	lrand48, nrand48, mrand48, . . . .	drand48(3C)
	ls: list contents of. . . . .	ls(1)
	lsearch, lfind: linear search . . .	lsearch(3C)
	lseek: move read/write file . . . .	lseek(2)

integers and long/ l3tol,	ltol2: convert between 2-byte . l3tol(3C)
values:	m4: macro processor . . . . . m4(1)
/access long integer data in a	machine-dependent values. . . . values(5)
permuted index. mptx: the	machine-independent fashion . . sput1(3X)
documents. mm: the 'M'	macro package for formatting a. mptx(5)
m4:	macro package for formatting. . mm(5)
in this manual. man:	macro processor . . . . . m4(1)
formatted with the 'M'	macros for formatting entries . man(5)
mt: interface for	macros. /print/check documents. mm(1)
send mail to users or read	magnetic tape . . . . . mt(7)
	mail. mail, rmail:. . . . . mail(1)
users or read mail.	mail, rmail: send mail to . . . mail(1)
mail, rmail: send	mail to users or read mail. . . mail(1)
processing system.	mailx: interactive message. . . mailx(1)
malloc, free, realloc, calloc:	main memory allocator . . . . . malloc(3C)
/mallopt, mallinfo: fast	main memory allocator . . . . . malloc(3X)
/lp.cnfg: configure and	maintain the print system . . . lp.cnfg(1M)
regenerate groups of/ make:	maintain, update, and . . . . . make(1)
iv: initialize and	maintain volume . . . . . iv(1)
ar: archive and library	maintainer for portable/. . . . ar(1)
SCCS file. delta:	make a delta (change) to an . . delta(1)
mkdir:	make a directory. . . . . mkdir(1)
or ordinary file. mknod:	make a directory, or a special. mknod(2)
for fsck. mklost+found:	make a lost+found directory . . mklost+found(1)
mktemp:	make a unique file name . . . . mktemp(3C)
/exCnxSendOnDealloc:	make final requests . . . . . exfinal(2)
regenerate groups of/	make: maintain, update, and . . make(1)
banner:	make posters. . . . . banner(1)
session. script:	make typescript of terminal . . script(1)
/realloc, calloc, mallopt,	mallinfo: fast main memory/. . malloc(3X)
main memory allocator.	malloc, free, realloc, calloc:. malloc(3C)
mallopt, mallinfo: fast main/	malloc, free, realloc, calloc,. malloc(3X)
malloc, free, realloc, calloc,	mallopt, mallinfo: fast main/ . malloc(3X)
entries in this manual.	man: macros for formatting. . . man(5)
this manual.	man, manprog: print entries in. man(1)
/tfind, tdelete, twalk:	manage binary search trees. . . tsearch(3C)
hsearch, hcreate, hdestroy:	manage hash search tables . . . hsearch(3C)
wmop: window	management operations . . . . . wmop(3X)
window: window	management primitives . . . . . window(7)
wm: window	management. . . . . wm(1)
records. fwtmp, wttmpfix:	manipulate connect accounting . fwtmp(1M)
of/ ldread, ldlimit, lditem:	manipulate line number entries. ldread(3X)
frexp, ldexp, modf:	manipulate parts of/. . . . . frexp(3C)
manual. man,	manprog: print entries in this. man(1)
manprog: print entries in this	manual. man,. . . . . man(1)
for formatting entries in this	manual. man: macros . . . . . man(5)
terminal input and/ rsterm:	manually start and stop . . . . rsterm(1M)
ascii:	map of ASCII character set. . . ascii(5)

files. diffmk:	mark differences between. . . .	diffmk(1)
umask: set file-creation mode	mask. . . . .	umask(1)
set and get file creation	mask. umask:. . . . .	umask(2)
table. master:	master device information . . .	master(4)
information table.	master: master device . . . . .	master(4)
regular expression compile and	match routines. regexp: . . . .	regexp(5)
math:	math functions and constants. .	math(5)
constants.	math: math functions and. . . .	math(5)
eqn, neqn, checkedq: format	mathematical text for nroff or/	eqn(1)
function.	matherr: error-handling . . . .	matherr(3M)
	maze: generate a maze . . . . .	maze(6)
maze: generate a	maze. . . . .	maze(6)
as:	mc68010 assembler . . . . .	as(1)
processor type.	mc68K, pdp11, u3b, vax: . . . .	machid(1)
	mem, kmem: core memory. . . . .	mem(7)
memcpy, memset: memory/	memcpy, memchr, memcmp,. . . .	memory(3C)
memset: memory/ memcpy,	memchr, memcmp, memcpy, . . . .	memory(3C)
operations. memcpy, memchr,	memcmp, memcpy, memset: memory.	memory(3C)
memcpy, memchr, memcmp,	memcpy, memset: memory/ . . . .	memory(3C)
free, realloc, calloc: main	memory allocator. malloc, . . .	malloc(3C)
malloc, mallinfo: fast main	memory allocator. /calloc,. . .	malloc(3X)
shmctl: shared	memory control operations . . .	shmctl(2)
queue, semaphore set or shared	memory id. /remove a message. .	ipcrm(1)
mem, kmem: core	memory. . . . .	mem(7)
memcpy, memcpy, memset:	memory operations. /memchr, . .	memory(3C)
shmop: shared	memory operations . . . . .	shmop(2)
shmget: get shared	memory segment. . . . .	shmget(2)
/memchr, memcpy, memcoy,	memset: memory operations . . .	memory(3C)
sort: sort and/or	merge files . . . . .	sort(1)
files. acctmrg:	merge or add total accounting .	acctmrg(1M)
files or subsequent/ paste:	merge same lines of several . .	paste(1)
	msg: permit or deny messages .	msg(1)
msgctl:	message control operations. . .	msgctl(2)
msgop:	message operations. . . . .	msgop(2)
mailx: interactive	message processing system . . .	mailx(1)
exCheck: examine an ICC	message queue. exWait,. . . . .	exwait(2)
msgget: get	message queue . . . . .	msgget(2)
or shared/ ipcrm: remove a	message queue, semaphore set. .	ipcrm(1)
exRespond: send a	message to a client . . . . .	exrespond(2)
exRequest: Send a	message to a server . . . . .	exrequest(2)
msg: permit or deny	messages. . . . .	msg(1)
sys_nerr: system error	messages. /errno, sys_errlist,. .	perror(3C)
and copy it to RTOS.	mkboot: reformat operating	
	system kernel. mkboot(1M)	
lost+found directory for/	mkdir: make a directory . . . .	mkdir(1)
special or ordinary file.	mkfs: construct a file system .	mkfs(1M)
	mklost+found: make a . . . . .	mklost+found(1)
	mknod: build special file . . .	mknod(1M)
	mknod: make a directory, or a .	mknod(2)

name.	mktemp: make a unique file. . .	mktemp(3C)
formatting documents. mm: the	MM macro package for. . . . .	mm(5)
documents formatted with the	MM macros. /print/check . . . .	mm(1)
documents formatted with the/	mm, osdd, checkmm: print/check.	mm(1)
formatting documents.	mm: the MM macro package for.	mm(5)
view graphs, and slides.	mmt, mvt: typeset documents, . .	mmt(1)
table.	mnttab: mounted file system . .	mnttab(4)
chmod: change	mode. . . . .	chmod(1)
umask: set file-creation	mode mask . . . . .	umask(1)
chmod: change	mode of file. . . . .	chmod(2)
modemcap: smart	modem capability data base. . .	modemcap(5)
capability data base.	modemcap: smart modem . . . . .	modemcap(5)
getty: set terminal type,	modes, speed, and line/ . . . .	getty(1M)
floating-point/ frexp, ldexp,	modf: manipulate parts of . . .	frexp(3C)
touch: update access and	modification times of a file. .	touch(1)
utime: set file access and	modification times. . . . .	utime(2)
/ckpacct, dodisk, lastlogin,	monacct, nulladm, prctmp,/. . .	acctsh(1M)
profile.	monitor: prepare execution. . .	monitor(3C)
uusub:	monitor uuop network. . . . .	uusub(1M)
	moo: guessing game. . . . .	moo(6)
	more, page: text perusal. . . .	more(1)
translate byte orders to	Motorola/Intel. /swaplong:. . .	swapshort(3X)
mount:	mount a file system . . . . .	mount(2)
system. mount, umount:	mount and dismount file . . . .	rmount(1M)
	mount: mount a file system. . .	mount(2)
setmnt: establish	mount table . . . . .	setmnt(1M)
dismount file system.	mount, umount: mount and. . . .	mount(1M)
mnttab:	mounted file system table . . .	mnttab(4)
mmdir:	move a directory. . . . .	mmdir(1M)
cp, ln, mv: copy, link or	move files. . . . .	cp(1)
lseek:	move read/write file pointer. .	lseek(2)
the LP request scheduler and	move requests. /start/stop. . .	lpsched(1M)
formatting a permuted index.	mptx: the macro package for . . .	mptx(5)
/erand48, lrand48, nrand48,	mrnd48, jrand48, srand48,/ . . .	drand48(3C)
operations.	msgctl: message control . . . .	msgctl(2)
	msgget: get message queue . . .	msgget(2)
	msgop: message operations . . .	msgop(2)
tape.	mt: interface for magnetic. . .	mt(7)
cp, ln,	mv: copy, link or move files. .	cp(1)
	mmdir: move a directory . . . .	mmdir(1M)
graphs, and slides. mmt,	mvt: typeset documents, view. .	mmt(1)
i-numbers.	ncheck: generate names from . .	ncheck(1M)
mathematical text for/ eqn,	neqn, checkeq: format . . . . .	eqn(1)
definitions for eqn and	neqn. /special character. . . .	eqnchar(5)
definitions for eqn and	neqn. /special character. . . .	mv(5)
uusub: monitor uuop	network . . . . .	uusub(1M)
a text file.	newform: change the format of .	newform(1)
	newgrp: log in to a new group .	newgrp(1)
news: print	news items. . . . .	news(1)

news: print	new items . . . . .	news(1)
nw: initialize	new window. . . . .	nw(1)
process.	nice: change priority of a. . .	nice(2)
priority.	nice: run a command at low. . .	nice(1)
	nl: line numbering filter . . .	nl(1)
list.	nlist: get entries from name. .	nlist(3C)
object file.	nm: print name list of common .	nm(1)
hangups and quits.	nohup: run a command immune to.	nohup(1)
setjmp, longjmp:	non-local goto. . . . .	setjmp(3C)
drand48, erand48, lrand48,	nrand48, mrand48, jrand48, / . .	drand48(3C)
format mathematical text for	nroff: format text. . . . .	nroff(1)
tbl: format tables for	nroff or troff. /checkeq: . . .	eqn(1)
constructs. deroff: remove	nroff or troff. . . . .	tb(1)
	nroff/troff, tbl, and eqn . . .	deroff(1)
	nsh: new shell. . . . .	nsh(10)
null: the	null file . . . . .	null(7)
/dodisk, lastlogin, monacct,	null: the null file . . . . .	null(7)
nl: line	nulladm, pretmp, prdaily, / . . .	acctsh(1M)
	numbering filter. . . . .	nl(1)
ldfcn: common	nw: initialize new window . . .	nw(1)
dump selected parts of an	object file access routines . . .	ldfcn(4)
ldopen, ldaopen: open a common	object file. dump: . . . . .	dump(1)
number entries of a common	object file for reading . . . . .	ldopen(3X)
ldaclose: close a common	object file function. /line . . .	ldread(3X)
the file header of a common	object file. ldclose, . . . . .	ldclose(3X)
of a section of a common	object file. ldfhread: read . . .	ldfhread(3X)
file header of a common	object file. /number entries. . .	ldlseek(3X)
of a section of a common	object file. /to the optional. . .	ldohseek(3X)
section header of a common	object file. /entries . . . . .	ldrseek(3X)
section of a common	object file. /indexed/named . . .	ldshread(3X)
symbol table entry of a common	object file. /indexed/named . . .	ldseek(3X)
symbol table entry of a common	object file. /the index of a. . .	ldtbindex(3X)
the symbol table of a common	object file. /read an indexed . .	ldtbread(3X)
number entries in a common	object file. /seek to . . . . .	ldtbseek(3X)
nm: print name list of common	object file. linenum: line . . .	linenum(4)
information for a common	object file . . . . .	nm(1)
section header for a common	object file. /relocation. . . . .	reloc(4)
information from a common	object file. scnhdr: . . . . .	scnhdr(4)
entry. /symbol name for common	object file. /and line number . .	strip(1)
format. syms: common	object file symbol table. . . . .	ldgetname(3X)
file header for common	object file symbol table. . . . .	syms(4)
directories. cpset: install	object files. filehdr: . . . . .	filehdr(4)
ld: link editor for common	object files in binary. . . . .	cpset(1M)
print section sizes of common	object files. . . . .	ld(1)
find ordering relation for an	object files. size: . . . . .	size(1)
/exAllocExch, exDeallocExch:	object library. lorder: . . . . .	lorder(1)
od:	obtain and abandon exchanges. . .	exchanges(2)
functions.	octal dump. . . . .	od(1)
	ocourse: optimized screen. . . .	ocourses(3X)

Allocate RTOS/ of Create, interpreter for interactive/ ofOpenFile, ofCloseFile, Access RTOS/ of OpenFile, RTOS file system. ofReadDirSector: RTOS/ ofDelete: Allocate RTOS/ ofCreate, ofChangeFileLength, directory functions. ofCrDir,  ofSetFileStatus: RTOS File/ directories. ofCloseAllFiles: Access RTOS/ on a RTOS file. directory/ ofCrDir, of DDir,  Status. ofGetFileStatus, ofed, RTOS file. ofRead, reading. ldopen, ldaopen: i-node. openi: fopen, freopen, fdopen: dup: duplicate an open: writing. by i-node. RTOS. mkboot: reformat  config: configure a uname: get name of current memcmp, memcpy, memset: memory msgctl: message control msgop: message semctl: semaphore control semop: semaphore shmctl: shared memory control shmop: shared memory strspn, strtok: string tputs: terminal independent wmop: window management join: relational database dcopy: copy file systems for CRT screen handling and ocourse: vector. getopt: get common/ ldohseek: seek to the fcntl: file control stty: set the	od: octal dump. . . . . od(1) ofChangeFileLength, ofDelete: . ofcreate(3X) ofcli: command line . . . . . ofcli(1M) ofCloseAllFiles:Access RTOS/. . ofopen(2C) ofCloseFile, ofCloseAllFiles: . ofopen(3C) ofcopy: copy to or from the . . ofcopy(1M) ofCrDir, ofDDir, . . . . . ofdir(2Y) ofCreate, ofChangeFileLength, . ofcreate(3X) ofDelete: Allocate RTOS files . ofcreate(3X) ofDDir, ofReadDirSector: RTOS. ofdir(2Y) ofed, ofvi: edit RTOS files . . ofeditors(1M) ofGetFileStatus,. . . . . ofstatus(3X) ofls: list CTOS files and . . . ofls(1M) ofOpenFile, ofCloseFile,. . . . ofopen(2C) ofRead, ofWrite: Input/output . ofread(3X) ofReadDirSector: RTOS . . . . . ofdir(2Y) ofRename: rename a RTOS file. . ofrename(3X) ofSetFileStatus: RTOS File. . . ofstatus(3X) ofvi: edit RTOS files . . . . . ofeditors(1M) ofWrite: Input/output on a . . . ofread(3X) open a common object file for . ldopen(2Y) open a file specified by. . . . . openi(2) open a stream . . . . . fopen(2S) open file descriptor. . . . . dup(2) open for reading or writing . . . open(2) open: open for reading or . . . . open(2) openi: open a file specified. . . openi(2) operating system kernel and copy it to . . . . . mkboot(1M) operating system. . . . . config(1M) operating system. . . . . uname(2) operations. memcpy, memchr,. . . memory(2C) operations. . . . . msgctl(2) operations. . . . . msgop(2) operations. . . . . semctl(2) operations. . . . . semop(2) operations. . . . . shmctl(2) operations. . . . . shmop(2) operations. /strpbrk, strspn, . string(3C) operations. /tgetstr, tgoto,. . termcap(2X) operations. . . . . wmop(2X) operator. . . . . join(1) optimal access time . . . . . dcopy(1M) optimization package. curses: . curses(3X) optimized screen functions. . . ocurses(2Y) option letter from argument . . . getopt(3C) optional file header of a . . . ldohseek(2X) options . . . . . fcntl(3) options for a terminal. . . . . stty(1)
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getopt: parse commands	options . . . . .	getopt(1)
set parallel line printer	options. lpset: . . . . .	lpset(1M)
object library. lorder: find	ordering relation for an. . . .	lorder(1)
a directory, or a special or	ordinary file. mknod: make. . .	mknod(2)
documents formatted with/ mm,	osdd, checkmm: print/check. . .	mm(1)
dial: establish an	out-going terminal line/. . . .	dial(3C)
assembler and link editor	output. a_out: common . . . . .	a_out(4)
long lines for finite width	output device. fold: fold . . .	fold(1)
/vsprintf: print formatted	output of a varargs argument/ .	vprintf(3S)
sprintf: print formatted	output. printf, fprintf, . . . .	printf(3S)
and stop terminal input and	output./manually start. . . . .	rsterm(1M)
/acctdusg, accton, acctwtmp:	overview of accounting and/ . .	acct(1M)
chown: change	owner and group of a file . . .	chown(2)
chown, chgrp: change	owner or group. . . . .	chown(1)
and expand files.	pack, peat, unpack: compress. .	pack(1)
handling and optimization	package. curses: CRT screen . .	curses(3X)
permuted/ mptx: the macro	package for formatting a. . . . .	mptx(5)
documents. mm: the MM macro	package for formatting. . . . .	mm(5)
interprocess communication	package (ftok) /standard. . . . .	stdipc(3C)
sadc: system activity report	package. sa1, sa2, . . . . .	sar(1M)
standard buffered input/output	package. stdio: . . . . .	stdio(3S)
more,	nage: text perusal . . . . .	more(1)
4014 terminal. 4014:	paginator for the TEKTRONIX . .	4014(1)
lpset:set	parallel line printer options .	lpset(1M)
lp:	parallel printer interface. . .	lp(7)
process, process group, and	parent process IDs. /get. . . .	getpid(2)
getopt:	parse command options . . . . .	getopt(1)
crup: create file system	partition (slice) . . . . .	crup(1M)
	passwd: change login password .	passwd(1)
	passed: password file . . . . .	passwd(4)
/endpwent, fgetpwent: get	password file entry . . . . .	getpwent(3C)
outpwent: write	password file entry . . . . .	putpwent(3C)
passwd:	password file . . . . .	passwd(4)
getpass: read a	password. . . . .	getpass(3C)
passwd: change login	password. . . . .	passwd(1)
pwck, grpck:	password/group file checkers. .	pwck(1M)
several files or subsequent/	paste: merge same lines of. . .	paste(1)
for command.	path: locate executable file. .	path(1)
dirname: deliver portions of	path names. basename, . . . . .	basename(1)
directory. getcwd: get	path-name of current working. .	getcwd(3C)
fgrep: search a file for a	pattern. grep, egrep, . . . . .	grep(1)
processing language. awk:	pattern scanning and. . . . .	awk(1)
signal.	pause: suspend process until. .	pause(2)
expand files. pack,	peat, unpack: compress and. . .	pack(1)
a process. popen,	pclose: initiate pipe to/from .	popen(3S)
type. mc68k,1	pdp11, u3b, vax: processor. . .	machid(1)
large files and/ pilf, dio:	performance improvement in. . .	pilf(5)
cstrans:	perform character-set	
	translation . cstrans(3X)	

mesg:	permit or deny messages . . . .	mesg(1)
macro package for formatting a	permuted index. mptx: the . . . .	mptx(5)
ptx:	permuted index. . . . .	ptx(1)
format. acct:	per-process accounting file . . . .	acct(4)
acctoms: command summary from	per-process accounting/ . . . .	acctoms(1M)
sys_err: system error/	perror, errno, sys_errlist, . . . .	perror(3C)
terminals. pg: file	perusal filter for soft-copy. . . .	pg(1)
more, page: text	perusal . . . . .	more(1)
soft-copy terminals.	pg: file perusal filter for . . . .	pg(1)
split: split a file into	pieces. . . . .	split(1)
improvement in large files/	pilf, dio: performance. . . . .	pilf(5)
channel.	pipe: create an interprocess. . . .	pipe(2)
tee:	pipe fitting. . . . .	tee(1)
popen, pclose: initiate	pipe to/from a process. . . . .	popen(3S)
subroutines.	plot: graphics interface. . . . .	plot(3X)
ftell: reposition a file	pointer in a stream. /rewind, . . . .	fseek(3S)
lseek: move read/write file	pointer . . . . .	lseek(2)
to/from a process.	popen, pclose: initiate pipe. . . .	popen(3S)
and library maintainer for	portable archives. /archive . . . .	ar(1)
basename, dirname: deliver	portions of path names . . . . .	basename(1)
banner: make	posters . . . . .	banner(1)
logarithm, / exp, log, log10,	now, sqrt: exponential, . . . . .	exp(3M)
/sqrt: exponential, logarithm,	power, square root functions. . . .	exp(3M)
	pr: print files . . . . .	pr(1)
/lastlogin, monacct, nulladm,	prctmp, prdaily, prtacct, /. . . . .	acctsh(1M)
/monacct, nulladm, pretmp,	prdaily, prtacct, runacct, / . . . .	acctsh(1M)
for troff. cw, checkcw:	prepare constant-width text . . . .	cw(1)
monitor:	prepare execution profile . . . . .	monitor(3C)
cpp: the C language	preprocessor. . . . .	cpp(1)
unget: undo a	previous get of an SCCS file. . . . .	unget(1)
types:	primitive system data types . . . .	types(5)
window: window management	primitives. . . . .	window(7)
prs:	print an SCCS file. . . . .	prs(1)
date:	print and set the date. . . . .	date(1)
number. apnum:	print Application Processor . . . . .	apnum(1)
cal:	print calendar. . . . .	cal(1)
of a file. sum:	print checksum and block count. . . .	sum(1)
editing activity. sact:	print current SCCS file . . . . .	sact(1)
man, manprog:	print entries in this manual. . . . .	man(1)
cat: concatenate and	print files . . . . .	cat(1)
pr:	print files . . . . .	pr(1)
vprintf, vfprintf, vsprintf:	print formatted output of a/. . . . .	vprintf(3S)
printf, fprintf, sprintf:	print formatted output. . . . .	printf(3S)
lpstat:	print LP status information . . . . .	lpstat(1)
object file. nm:	print name list of common . . . . .	nm(1)
uname:	print name of system. . . . .	uname(1)
news:	print news items. . . . .	news(1)
file(s). acctcom: search and	print process accounting. . . . .	acctcom(1)
object files. size:	print section sizes of common . . . .	size(1)

and maintain the	print system. /lp.cnfg: . . . .	lp.cnfg(1M)
names. id:	print user and group IDs and. . .	id(1)
formatted/ mm, osdd, checkmm:	print/check documents . . . . .	mm(1)
lp: parallel	printer interface . . . . .	lp(7)
requests to an LP line	printer. /cancel: send/cancel . .	lp(1)
lnset: set parallel line	printer options . . . . .	lnset(1M)
cpr: character-	printer spooler . . . . .	cpr(1)
lpr: line	printer spooler . . . . .	lpr(1)
disable: enable/disableLP	printers. enable, . . . . .	enable(1)
print formatted output.	printf, fprintf, sprintf: . . .	printf(3S)
and formatter. /csoffset:	print-file character-set. . . . .	csoffset(1)
nice: run a command at low	priority. . . . .	nice(1)
nice: change	priority of a process . . . . .	nice(2)
errors. errpt:	process a report of logged. . . .	errpt(1M)
acct: enable or disable	process accounting. . . . .	acct(2)
acctprc1, acctprc2:	process accounting. . . . .	acctprc(1M)
acctcom: search and print	process accounting file(s). . . .	acctcom(1)
alarm: set a	process alarm clock . . . . .	alarm(2)
times. times: get	process and child process . . . .	times(2)
init, icode, telinit:	process control/. . . . .	init(1M)
timex: time a command; report	process data and system/. . . . .	timex(1)
exit, _exit: terminate	process . . . . .	exit(2)
fork: create a new	process . . . . .	fork(2)
getpgrp, getppid: get process,	process group, and parent/. . . .	getpid(2)
setpgrp: set	process group ID. . . . .	setpgrp(2)
process group, and parent	process IDs. /get process,. . . .	getpid(2)
inittab: script for the init	process . . . . .	inittab(4)
kill: terminate a	process . . . . .	inittab(4)
nice: change priority of a	process . . . . .	nice(2)
Application/ spawn: execute a	process on a specific . . . . .	spawn(1)
spawnlp, spawnvp: execute a	process on a specific/. . . . .	spawn(3X)
kill: send a signal to a	process or a group of/. . . . .	kill(2)
initiate pipe to/from a	process. popen, pclose: . . . . .	popen(3S)
getpvt, getpgrp, getppid: get	process, process group, and/. . .	getpid(2)
ps: report	process status. . . . .	ps(1)
times: get process and child	process times . . . . .	times(2)
wait: wait for child	process to stop or terminate. . .	wait(2)
spwait: wait for spawned	process to terminate. . . . .	spwait(3X)
ptrace:	process trace . . . . .	ptrace(2)
pause: suspend	process until signal. . . . .	pause(2)
wait: await completion of	process . . . . .	wait(10)
list of file systems	processed by fsck. checklist: . . .	checklist(4)
to a process or a group of	processes. /send a signal . . . .	kill(2C)
killall: kill all active	processes . . . . .	killall(1M)
structure. fuser: identify	processes using a file or file. . .	fuser(1M)
awk: pattern scanning and	processing language . . . . .	awk(1)
shutdown, halt: terminate all	processing. . . . .	shutdown(1M)
mailx: interactive message	processing system . . . . .	mailx(1)
m4: macro	processor . . . . .	m4(1)

apnum: print Application Processor number. . . . .	apnum(1)
consol: control Application Processor pseudoconsole . . . . .	console(1M)
on a specific Application Processor. /execute a process . . . . .	spawn(1)
on a specific Application Processor. /execute a process . . . . .	spawn(3X)
mc68k, pdp11, u3b, vax: processor type. . . . .	machid(1)
function. prof: display profile data. . . . .	prof(1)
profile. prof: profile within a. . . . .	prof(5)
prof: display profil: execution time. . . . .	profil(2)
monitor: prepare execution profile data. . . . .	prof(1)
profil: execution time profile profile . . . . .	monitor(3C)
environment at login time. profile . . . . .	profil(2)
prof: profile: setting up an. . . . .	profile(4)
standard/restricted command profile within a function . . . . .	prof(5)
update: programming language. /the. . . . .	sh(1)
arithmetic: provide disk synchronization. . . . .	update(1M)
true, false: provide drill in number facts . . . . .	arithmetic(5)
/nulladm, prctmp, prdaily, prs: print an SCCS file . . . . .	prs(1)
control Application Processor prtacct, runacct, shutacct,/. . . . .	acctsh(1M)
generate uniformly distributed ps: report process status . . . . .	ps(1)
stream. ungetc: pseudoconsole. console: . . . . .	console(1M)
put character or word on a/ pseudo-random numbers . . . . .	drand48(3C)
character or word on a/ putc, ptrace: process trace . . . . .	ptrace(2)
en vironment. ptx: permuted index . . . . .	ptx(1)
entry. push character back into input. ungetc(3S)	
stream. putc, putchar, fputc, putw: . . . . .	putc(3S)
getutent, getutid, getuline, putchar, fputc, putw: put . . . . .	putc(3S)
a/ putc, putchar, fputc, putenv: change or add value to. . . . .	putenv(3C)
file checkers. putpwent: write password file . . . . .	putpwent(3C)
RTOS queue. puts, fputs: put a string on a. . . . .	puts(3S)
examine an ICC message queue. exWait, exCheck: . . . . .	getut(3C)
msgget: get message queue . . . . .	getut(3C)
add a new entry to a RTOS queue. quAdd: . . . . .	putc(3S)
quReadKeyed: examine RTOS queue. quReadNext,. . . . .	pwck(1M)
quRemove: take back a RTOS queue request . . . . .	pwd(1)
iperm: remove a message queue, semaphore set or shared/ . . . . .	qsort(3C)
qsort: quicker sort . . . . .	quadd(3X)
command immune to hangups and quits. nohup: run a . . . . .	wxwait(2)
queue. quReadNext, quReadKeyed: examine RTOS . . . . .	msgget(2)
examine RTOS queue. quReadNext, quReadKeyed: . . . . .	quadd(3X)
queue request. quRemove: take back a RTOS. . . . .	quread(3X)
random-number generator. rand, srand: simple . . . . .	quremove(3X)
	ipern(1)
	qsort(3C)
	nohup(1)
	quiz(6)
	quread(3X)
	quread(3X)
	quremove(3X)
	rand(3C)

rand, srand: simple	random-number generator . . . .	rand(3C)
fsplit: split fortran,	ratfor, or efl files. . . . .	fsplit(1)
initialization/ brc, bcheckrc,	rc, allrc, conrc: system. . . .	brc(1M)
initialization/ brc, bcheckrc,	rc, allrc, conrc, ttrc: system.	brc(1M)
getpass:	read a password . . . . .	getpass(3C)
entry of a common/ ldthread:	read an indexed symbol table. .	ldthread(3X)
header/ ldshread, ldnshead:	read an indexed/named section .	ldshread(3X)
read:	read from file. . . . .	read(2)
rmail: send mail to users or	read mail. mail,. . . . .	mail(1)
line:	read one line.. . . . .	line(1)
	read: read from file. . . . .	read(2)
member of an/ ldahread:	read the archive header of a. .	ldahread(3X)
common object file. ldfhread:	read the file header of a . . .	ldfhread(3X)
open a common object file for	reading. ldopen, ldaopen: . . .	ldopen(3X)
open: open for	reading or writing. . . . .	open(2)
lseek: move	read/write file pointer . . . .	lseek(2)
allocator. malloc, free,	realloc, calloc: mail memory. .	malloc(3C)
mallinfo: fast/ malloc, free,	realloc, calloc, mallopt, . . .	malloc(3X)
specify what to do upon!	receipt of a signal. signal:. .	signal(2)
from per-process accounting	records. /command summary . . .	acctcms(1M)
from/ errdead: extract error	records and status information.	errdead(1M)
manipulate connect accounting	records. fwtmp, wtmpfix:. . . .	fwtmp(1M)
tape. frec:	recover files from a backup . .	frec(1M)
ed,	red: text editor. . . . .	id(1)
generate C program cross	reference. cxref: . . . . .	cxref(1)
it to RTOS. mkboot:	reformat operating system	
	kernel and copy . . . . .	mkboot(1M)
execute regular expression.	regcmp, regex: compile and. . .	regcmp(3X)
compile.	regcmp: regular expression. . .	regcmp(1)
make: maintain, update, and	regenerate groups of programs .	make(1)
regular expression. regcmp,	regex: compile and execute. . .	regcmp(3X)
compile and match routines.	regexp: regular expression. . .	regexp(5)
locking: exclusive access to	regions of a file . . . . .	locking(2)
match routines. regexp:	regular expression compile and.	regexp(5)
regcmp:	regular expression compile. . .	regcmp(1)
regex: compile and execute	regular expression. regcmp, . .	regcmp(3X)
requests. accept,	reject: allow/prevent LP. . . .	accept(1M)
sorted files. comm: select or	reject lines common to two. . .	comm(1)
lorder: find ordering	relation for an object/ . . . .	lorder(1)
join:	relational database operator. .	join(1)
for a common object file.	reloc: relocation information .	reloc(4)
ldrseek, ldnrseek: seek to	relocation entries of a/. . . .	ldrseek(3X)
common object file. reloc:	relocation information for a. .	reloc(4)
/fmod, fabs: floor, ceiling,	remainder, absolute value/. . .	floor(3M)
calendar:	reminder service. . . . .	calendar(1)
execution. uux:	remote system command . . . . .	uux(1C)
ct: spawn getty to a	remote terminal . . . . .	ct(1C)
file. rmdel:	remove a delta from an SCCS . .	rmdel(1)
semaphore set or/ ipcrm:	remove a message queue, . . . .	ipcrm(1)

exCnResponse, exDiscard: remove a response from an/. . . excpresp(2)  
    unlink: remove directory entry. . . . unlink(2)  
    rem, rmdir: remove files or directories . . . rm(1)  
    disk. dismount: remove floppy or cartridge. . . dismount(1)  
eqn constructs. deroff: remove nroff/troff, tbl, and. . . deroff(1)  
    ofRename: rename a RTOS file. . . . . ofrename(3X)  
check and interactive repair. /system consistency . . . fsck(1M)  
    uniq: report repeated lines in a file. . . . uniq(1)  
    clock: report CPU time used. . . . . clock(3C)  
communication/ ipcs: report inter-process. . . . . ipcs(1)  
    blocks. df: report number of free disk. . . . df(1M)  
    errpt: process a report of logged errors . . . . . errpt(1M)  
sa2, sado: system activity report package. sa1,. . . . . sar(1M)  
timex: time a command; report process data and system/ timex(1)  
    ps: report process status . . . . . ps(1)  
    file. uniq: report repeated lines in a. . . . . uniq(1)  
    sar: system activity reporter. . . . . sar(1)  
stream. fseek, rewind, ftell: reposition a file pointer in a. fseek(3S)  
    response. exCall: Snd a request and wait for the. . . . . excall(2)  
    exServeRq: appropriate a request code. . . . . exserverrq(2)  
    take back a RTOS queue request. quRemove:. . . . . quremove(3X)  
/lpmove: start/stop the LP request scheduler and move/ . . . lpsched(1M)  
    reject: allow/prevent LP requests. accept, . . . . . accept(1M)  
exCnxSendOnDealloc: make final requests. exSendOnDealloc,. . . . . exfinal(2)  
LP request scheduler and move requests. /start/stop the . . . . . lpsched(1M)  
    service spawn execution requests. spawnsrv: . . . . . spawnsrv(1M)  
    syslocal: special system requests. . . . . syslocal(2)  
lp, cancel: send/cancel requests to an LP line/ . . . . . lp(1)  
a request and wait for the response. exCall: Send. . . . . excall(2)  
    /exDiscard: remove a response from an exchange . . . . . excpresp(2)  
common object file/ ldgetname: retrieve symbol name for. . . . . ldgetname(3X)  
    abs: return integer absolute value . . . . . abs(3C)  
    logname: return login name of user . . . . . logname(3X)  
    name. getenv: return value for environment. . . . . getenv(3C)  
    stat: data returned by stat system call. . . . . stat(5)  
    col: filter reverse line-feeds. . . . . col(1)  
file pointer in a/ fseek, rewind, ftell: reposition a . . . . . fseek(3S)  
creat: create a new file or rewrite an existing one . . . . . creat(2)  
    directories. rm, rmdir: remove files or. . . . . rm(1)  
    read mail. mail, rmail: send mail to users or. . . . . mail(1)  
    SCCS file. rmdel: remove a delta from an . . . . . rmdel(1)  
    directories. rm, rmdir: remove files or. . . . . rm(1)  
    chroot: change root directory. . . . . chroot(2)  
    chroot changw root directory for a command. . . . . chroot(1M)  
logarithm, power, square root functions. /exponential, . . . . . exp(3M)  
common object file access routines. ldfcn:. . . . . ldfcn(4)  
expression compile and match routines. regexp: regular . . . . . regexp(5)  
controlling terminal's local RS-232 channels. tp:. . . . . tp(7)  
download terminal through RS-232 connection. /tmdl:. . . . . tmdl(1)

tdl:	rs232 terminal download . . . . .	td(1)
standard/restricted/ sh,	rsh: shell, the . . . . .	sh(1)
stop terminal input and/.	rsterm: manually start and. . . . .	rsterm(1M)
/ofDIDir, ofReadDirSector:	RTOS directory functions. . . . .	ofdir(3X)
ofWrite: Input/output on a	RTOS file. ofRead,. . . . .	ofread(3X)
ofRename: rename a	RTOS file. . . . .	ofrename(3X)
/ofSetFileStatus:	RTOS File Status. . . . .	ofstatus(3X)
ofcopy:copy to or from the	RTOS file system. . . . .	ofcopy(1M)
ofls: list	RTOS files and directories. . . . .	ofls(1M)
/ofDelete: Allocate	RTOS files. . . . .	ofcreate(3X)
ofed, ofvi: edit	RTOS files. . . . .	ofeditors(1M)
ofCloseAllFiles:Access	RTOS files. /ofCloseFile, . . . . .	ofopen(3C)
interpreter for interactive	RTOS JCL. ofcli: command line . . . . .	ofcli(1M)
operating system kernel and		
copy it to	RTOS mkboot: reformat . . . . .	mkboot(1M)
quAdd: add a new entry to a	RTOS queue. . . . .	quadd(3X)
quReadKeyed: examine	RTOS queue. quReadNext, . . . . .	quread(3X)
quRemove: take back a	RTOS queue request. . . . .	quremove(3X)
nice:	run a command at low priority . . . . .	nice(1)
hangups and quits. nohup:	run a command immune to . . . . .	nohup(1)
runacct:	run daily accounting. . . . .	runacct(1M)
	runacct: run daily accounting . . . . .	runacct(1M)
/prctmp, prdaily, prtacct,	runacct, shutacct, startup,/. . . . .	acctsh(1M)
activity report package.	sa1, sa2, sadc: system. . . . .	sar(1M)
report package. sa1,	sa2, sadc: system activity. . . . .	sar(1M)
editing activity.	sact: print current SCCS file . . . . .	sact(1)
package. sa1, sa2,	sadc: system activity report. . . . .	sar(1M)
	sar: system activity reporter . . . . .	sar(1)
space allocation. brk,	sbrk: change data segment . . . . .	brk(2)
formatted input.	scanf, fscanf, sscanf: convert. . . . .	scanf(3S)
bfs: big file	scanner . . . . .	bfs(1)
language. awk: pattern	scanning and processing . . . . .	awk(1)
the delta commentary of an	SCCS delta. cdc: change . . . . .	cdc(1)
comb: combine	SCCS deltas . . . . .	comb(1)
make a delta (change) to an	SCCS file. delta. . . . .	delta(1)
sact: print current	SCCS file editing activity. . . . .	sact(1)
get: get a version of an	SCCS file . . . . .	get(1)
prs: print an	SCCS file . . . . .	prs(1)
rmdel: remove a delta from an	SCCS file . . . . .	rmdel(1)
compare two versions of an	SCCS file. sccsdiff:. . . . .	sccsdiff(1)
sccsfile: format of	SCCS file . . . . .	sccsfile(4)
undo a previous get of an	SCCS file. unget: . . . . .	unget(1)
val: validate	SCCS file . . . . .	val(1)
admin: create and administer	SCCS files. . . . .	admin(1)
what: identify	SCCS files. . . . .	what(1)
of an SCCS file.	sccsdiff: compare two versions. . . . .	sccsdiff(1)
	sccsfile: format of SCCS file . . . . .	sccsfile(4)
/start/stop the LP request	scheduler and move requests . . . . .	lpsched(1M)
common object file.	senhdr: section header for a. . . . .	senhdr(4)

clear:	clear terminal	screen. . . . .	clear(1)
course:	optimized	screen functions. . . . .	ocurses(3X)
optimimization/	curses: CRT	screen handling and . . . . .	curses(3X)
display editor based	cn/ vi:	screen-oriented (visual). . . . .	vi(1)
inittab:	terminal session.	script for the init process . . . . .	inittab(4)
system initialization	shell	script: make typescript of. . . . .	script(1)
system initialization	shell	scripts. /rc, allrc, conrc: . . . . .	bre(14)
program.		conrc, ttro . . . . .	lnc(14)
grep, egrep, fgrep:		sdiff: side-by-side differences	sdiff(1)
bsearch: binary	acctcom:	search a file for a pattern . . . . .	grep(1)
accounting file(s).		search a sorted table . . . . .	bsearch(3C)
lsearch, lfind: linear		search and print process. . . . .	acctcom(1)
hcreate, hdestroy: manage hash		search and update . . . . .	lsearch(3C)
table, twalk: manage binary		search tables. hsearch, . . . . .	hsearch(3C)
object file. scnhdr:		search trees. tsearch, tfind, . . . . .	tsearch(3C)
object/ /read an indexed/named		section header for a common . . . . .	scnhdr(4)
line number entries of a		section header of a common. . . . .	ldshdr(3X)
relocation entries of a		section of a common object/ . . . . .	ldlseek(3X)
seek to an indexed/named		section of a common object/ . . . . .	ldrseek(3X)
files. size: print		section of a common object/ . . . . .	ldtseek(3X)
/brnd48, jrand48, srand48,		section sizes of common object.	size(1)
section of/ ldsseek, ldnseek:		sed: stream editor. . . . .	sed(1)
a section/ ldlseek, ldlseek:		seed48, lcong48: generate/ . . . . .	rand48(3C)
a section/ ldrseek, ldrseek:		seek to an indexed/named. . . . .	ldseek(3X)
reader of a common/ ldohseek:		seek to line number entries of . . . . .	ldlseek(3X)
object file. ldthseek:		seek to relocation entries of . . . . .	ldrseek(3X)
server: get shared memory		seek to the optional file . . . . .	ldohseek(3X)
brk, sbrk: change data		seek to the symbol table of a . . . . .	ldthseek(3X)
to two sorted files. comm:		segment . . . . .	sh(2)
greek:		segment space allocation. . . . .	sh(2)
of a file. cut: cut out		select or reject lines common . . . . .	comm(1)
file. dump: dump		select terminal filter . . . . .	greek(1)
semctl:		selected fields of each line. . . . .	cut(1)
semop:		selected parts of an object . . . . .	dump(1)
iperm: remove a message queue,		semaphore control operations. . . . .	semctl(2)
semget: get set of		semaphore operations. . . . .	semop(2)
operations.		semaphore set or shared memory/	iperm(1)
exRespond:		semaphores. . . . .	semget(2)
exRequest:		semctl: semaphore control . . . . .	semctl(2)
the response. exCall:		semget: get set of semaphores . . . . .	semget(2)
a group of processes. kill:		semop: semaphore operations . . . . .	semop(2)
mail. mail, rmail:		send a message to a client. . . . .	exrespond(2)
line printer. lp, cancel:		Send a message to a server. . . . .	exrequest(2)
exRequest: Send a message to a		Send a request and wait for . . . . .	excall(2)
		send a signal to a process or . . . . .	kill(2)
		send mail to users or read. . . . .	mail(1)
		send/cancel requests to an LP . . . . .	lp(1)
		server. . . . .	exrequest(2)



make typescript of terminal buffering to a stream.	session. script: . . . . . script(1)
IDs. setuid,	setbuf, setvbuf: assign . . . . setbuf(3S)
getgrent, getgrgid, getgrnam, goto.	setgid: set user and group. . . . setuid(2)
encryption. crypt,	setgrent, endgrent, fgetgrent:/ getgrent(3C)
	setjmp, longjmp: non-local. . . . setjmp(3C)
	setkey, encrypt: generate DES . crypt(3C)
	setmnt: establish mount table . setmnt(1M)
getpwent, getpwuid, getpwnam,	setpgrp: set process group ID . setpgrp(2)
login time. profile:	setpwent, endpwent, fgetpwent:/ getpwent(3C)
gettydefs: speed and terminal group IDs.	setting up an environmnet at. . profile(4)
	settings used by getty. . . . . gettydefs(4)
	setuid, setgid: set user and. . . . setuid(2)
getutid, getutline, pututline,	setuname: set name of system. . . setuname(1M)
stream. setbuf,	setutent, endutent, utmpname:/ . getut(3C)
data in a/ sputl,	setvbuf: assign buffering to a. . setbuf(3S)
standard/restricted command/	sgetl: access long integer. . . . sputl(3X)
xstr: extract and	sh, rsh: shell, the . . . . . sh(1)
operations. shmctl:	share strings in C programs . . . xstr(1)
queue, semaphore set or	shared memory control . . . . . shmctl(2)
shmop:	shared memory id. /a message. . . ipcrm(1)
shmget: get	shared memory operations. . . . shmop(2)
system: issue a	shared memory segment . . . . . shmget(2)
keyprompt: application	shall command . . . . . system(3S)
nsh: new	shell . . . . . keyprompt(1)
shutacct, startup, turnacct:	shell . . . . . nsh(1)
conrc: system initialization	shell procedures for/ /runacct, acctsh(1M)
ttcr: system initialization	shell scripts. /rc, allrc,. . . . brc(1M)
command programming/ sh, rsh:	shell scripts. /rc, allrc, . . . . brc(1M)
onoerations.	shell, the standard/restricted. sh(1)
segment.	shmctl: shared memory control . . shmctl(2)
operations.	shmget: get shared memory . . . . shmget(2)
/prdaily, prtacct, runacct,	shmop: shared memroy. . . . . shmop(2)
processing.	shutacct, startup, turnacct:/ . acctsh(1M)
program. sdiff:	shutdown, halt: terminate all . . shutdown(1M)
login:	side-by-side difference . . . . . sdiff(1)
pause: suspend process until	sign on . . . . . login(1)
what to do upon receipt of a	signal. . . . . pause(2)
upon receipt of a signal.	signal. signal: specify . . . . . signal(2)
of processes. kill: send a	signal: specify what to do. . . . signal(2)
ssignal, gsignal: software	signal to a process or a group. . . kill(2)
lex: generate programs for	signals . . . . . ssignal(3C)
generator. rand, srand:	simple lexical tasks. . . . . lex(1)
atan, atan2: trigonometric/	simple random-number. . . . . rand(3C)
functions.	sin, cos, tan, asin, acos,. . . . trig(3M)
common object files.	sinh, cosh, tanh: hyperbolic. . . sinh(3M)
size: print section	size: print section sizes of. . . . size(1)
an interval.	sizes of common object files. . . size(1)
interval.	sleep: suspend execution for. . . sleep(1)
	sleep: suspend execution for. . . sleep(3C)

create file system partition	(slice). crup: . . . . . crup(1M)
documents, view graphs, and	slides. mmt, mvt: typeset . . . mmt(1)
current/ ttyslot: find the	slot in the utmp file of the. . . ttyslot(3C)
base. modemcap:	smart modem capability data . . . modercap(5)
spline: interpolate	smooth curve. . . . . spline(1G)
pg: file perusal filter for	soft-copy terminals . . . . . pg(1)
ssignal, gsignal:	software signals. . . . . ssignal(3C)
sort:	sort and/or merge files . . . . sort(1)
qsort: quicker	sort. . . . . qsort(3C)
	sort: sort and/or merge files . . sort(1)
tsort: topological	sort. . . . . tsort(1)
or reject lines common to two	sorted files. comm:select . . . comm(1)
bsearch: binary search a	sorted table. . . . . bsearch(3C)
brk, sbrk: change data segment	space allocation. . . . . brk(2)
specific Application/	spawn: execute a process on a . . spawn(1)
spawnsrv: service	spawn execution requests. . . . spawnsrv(1M)
terminal. ct:	spawn getty to a remote . . . . ct(1C)
spwait: wait for	spawned process to terminate. . spwait(3X)
process on a specific/	spawnlp, spawnvp: execute a . . spawn(3X)
execution requests.	spawnsrv: service spawn . . . . spawnsrv(1M)
a specific/ spawnlp,	spawnvp: execute a process on . . spawn(3X)
spawn: execute a process on a	specific Application/ . . . . . spawn(1)
execute a process on a	specific Application/ /spawnvp: spawn(3X)
fspec: format	specification in text files . . fspec(4)
openi: open a file	specified by i-node . . . . . openi(2)
receipt of a signal. signal:	specify what to do upon . . . . signal(2)
/set terminal type, modes,	speed, and line discipline. . . . getty(1M)
used by getty. gettydefs:	speed and terminal settings . . . gettydefs(4)
hashcheck: find spelling/	spell, hashmake, spellin, . . . spell(1)
spelling/ spell, hashmake,	spellin, hashcheck: find. . . . spell(1)
spellin, hashcheck: find	spelling errors. /hashmake, . . spell(1)
curv.	spline: interpolate smooth. . . . spline(1G)
split:	split a file into pieces. . . . split(1)
csplit: context	split . . . . . csplit(1)
efl files. fsplit:	split fortran, ratfor, or . . . fsplit(1)
pieces.	split: split a file into. . . . split(1)
uuclean: uucp	spool directory clean-up. . . . uuclean(1M)
cpr: character-printer	spooler . . . . . cpr(1)
lpr: line printer	spooler . . . . . lpr(1)
lpadmin: configure the P	spooling system . . . . . lpadmin(1M)
output, printf, fprintf,	sprintf: print formatted. . . . printf(3S)
integer data in a/	sputl, sgetl: access long . . . sputl(3X)
process to terminate.	spwait: wait for spawned. . . . spwait(3X)
power,/ exp, log, log10, pow,	sqrt: exponential, logarithm, . . exp(3M)
exponential, logarithm, power,	square root functions. /sqrt: . . exp(3M)
generator. rand,	srand: simple random-number . . . rand(3C)
/brand48, mrand48, jrand48,	srand48, seed48, lcong48:/ . . . drand48(3C)
input, scanf, fscanf,	sscanf: convert formatted . . . . scanf(3S)
signals.	ssignal, gsignal: software. . . . ssignal(3C)

package, stdio:	standard buffered input/output. stdio(3S)
communication package/ stdipc:	standard interprocess . . . . . stdipc(3C)
sh, rsh: shell, the	standard/restricted command/. . . sh(1)
and output. rsterm: manually	start and stop terminal input . . . rsterm(1M)
lpsched, lpshut, lpmove:	start/stop the LP request/. . . lpsched(1M)
/prtacct, runacct, shutacct,	startup, turnacct:shell/ . . . acctsh(1M)
system call.	stat: data returned by stat . . . stat(5)
	stat, fstat: get file status. . . stat(2)
stat: data returned by	stat system call. . . . . stat(5)
ff: list file names and	statistics for a file system. . . ff(1M)
ustat: get file system	statistics. . . . . ustat(2)
/extract error records and	status information from dump. . . errdead(1M)
lpstat: print LP	status information. . . . . lpstat(1)
feof, clearerr, fileno: stream	status inquiries. ferror, . . . ferror(3S)
control. uustat: uucp	status inquiry and job. . . . uustat(1C)
communication facilities	status. /report inter-process . . . ipc(1)
ofSetFileStatus: RTOS File	Status. ofGetFileStatus,. . . ofstatus(3X)
ps: report process	status. . . . . ps(1)
stat, fstat: get file	status. . . . . stat(2)
input/output package.	stdio: standard buffered. . . . stdio(3S)
communication package (ftok).	stdipc: standard interprocess . . . stdipc(3C)
	stime: set time . . . . . stime(2)
	stop or terminate. wait:. . . . wait(2)
wait for child process to	stop terminal input and/. . . . rsterm(1M)
rsterm: manually start and	strcat, strncat, strcmp,. . . . string(3C)
strncmp, strcpy, strncpy,/	strchr, strrchr, strpbrk,/ . . . string(3C)
/strcpy, strncpy, strlen,	strcmp, strncmp, strcpy,. . . . string(3C)
strncpy,/ strcat, strncat,	strcpy, strncpy, strlen,/ . . . string(3C)
/strncat, strcmp, strncmp,	strcspn, strtok: string/. . . . string(3C)
/strrchr, strpbrk, strspn,	stream editor . . . . . sed(1)
sed:	stream. fclose, . . . . . fclose(3S)
fflush: close or flush a	stream. . . . . fopen(3S)
fopen, freopen, fdoprn: open a	stream. fseek, rewind, ftell: . . . fseek(3S)
reposition a file pointer in a	stream. /getchar, fgetc, getw:. . . . getc(3S)
get character or word from a	stream. gets, . . . . . gets(3S)
fgets: get a string from a	stream. /putchar, fputc, putw:. . . . putc(3S)
put character or word on a	stream. . . . . puts(3S)
puts, fputs: put a string on a	stream. setbuf, . . . . . setbuf(3S)
setvbuf: assign buffering to a	stream status inquiries . . . . ferror(3S)
/feof, clearerr, fileno:	stream. ungetc: . . . . . ungetc(3S)
push character back into input	string. /164a: convert between. . . . a641(3C)
long integer and base-64 ASCII	string. /asctime, tzset:. . . . ctime(3C)
convert date and time to	string. /ecvt, gcvt: convert. . . . ecvt(3C)
floating-point number to	string from a stream . . . . . gets(3S)
gets, fgets: get a	string on a stream. . . . . puts(3S)
puts, fputs: put a	string operations. strpbrk, . . . string(3C)
strcspn, strcspn, strtok:	string to double-precision. . . strtod(3C)
number. strtod, stof: convert	string to floating-point. . . . atof(3C)
number. atof: convert ASCII	string to integer . . . . . strtol(3C)
strtol, atol, atoi: convert	

text strings in a file.	strings: extract the ASCII. . . strings(1)
extract the ASCII text	strings in a file. strings: . . strings(1)
xstr: extract and share	strings in C programs . . . . . xstr(1)
number information from a/	strip: strip symbol and line. . strip(1)
information from a/ strip:	strip symbol and line number. . strip(1)
/strncmp, stncpy, strncpy,	strlen, strchr, strrchr,/ . . . string(3C)
stncpy, strncpy,/ strcat,	strncat, stemp, strncmp, . . . string(3C)
strcat, strncat, stemp,	strncmp, stncpy, strncpy,/ . . . string(3C)
/stemp, strncmp, stncpy,	strncpy, strlen, strchr,/ . . . string(3C)
/strlen, strchr, strrchr,	strpbrk, strspn, strcspn,/ . . . string(3C)
/strncpy, strlen, strchr,	strchr, strpbrk, strspn,/ . . . string(3C)
/strchr, strrchr, strpbrk,	strspn, strcspn, strtok:/ . . . string(3C)
to double-precision number.	strtod, atof: convert string. . strtod(3C)
/strpbrk, strspn, strcspn,	strtok: string operations . . . string(3C)
string to integer.	strtol, atol, atoi: convert . . strtol(3C)
processes using a file or file	structure. fuser: identify. . . fuser(1M)
terminal.	stty: set the options for a . . stty(1)
another user.	su: become super-user or. . . su(1)
intro: introduction to	subroutines and libraries . . . intro(3)
plot: graphics interface	subroutines . . . . . plot(3X)
same lines of several files or	subsequent lines of one file. . paste(1)
count of a file.	sum: print checksum and block . sum(1)
du:	summarize disk usage. . . . . du(1)
accounting/ acctens: command	summary from per-process. . . acctsms(1M)
sync: update the	super block . . . . . sync(1)
sync: update	super-block . . . . . sync(2)
su: become	super-user or another user. . . su(1)
interval. sleep:	suspend execution for an. . . sleep(1)
interval. sleep:	suspend execution for . . . . . sleep(3C)
pause:	suspend process until signal. . pause(2)
swab:	swab: swap bytes. . . . . swab(3C)
orders to/ swanshort,	swap bytes. . . . . swab(3C)
byte orders to/	swaplong: translate byte. . . . swapshort(3X)
file.	swapshort, swaplong: translate. swapshort(3X)
information from/ strip: strip	swrite: synchronous write on a. swrite(2)
file/ ldgetname: retrieve	symbol and line number. . . . . strip(1)
name for common object file	symbol name for common object . ldgetname(3X)
bject/ /compute the index of a	symbol table entry. /symbol . . ldgetname(3X)
ldtbread: read an indexed	symbol table entry of a common. ldtbindex(3X)
syms: common object file	symbol table entry of a common/ ldtbread(3X)
object/ ldthseek: seek to the	symbol table format . . . . . syms(L)
symbol table format.	symbol table of a common. . . . ldthseek(3X)
update: provide disk	syms: common object file. . . . syms(L)
swrite:	sync: update super-block. . . . sync(2)
error/ perror, errno,	sync: update the super block. . sync(1)
requests.	synchronization . . . . . update(1M)
	synchronous write on a file . . swrite(2)
	sys_errlist, sys_nerr: system . perror(3C)
	syslocal: special system. . . . syslocal(2)

perror, errno, sys_errlist,	sys_nerr: system error/ . . . .	perror(3C)
uuto, uupick: public computer	system-to-computer system file/	uuto(1C)
binary search a sorted	table. bsearch: . . . . .	bsearch(3C)
character-set translation	table. /csinit: initialize a .	csinit(3X)
for common object file symbol	table entry. /symbol name . . .	ldgetname(3X)
/compute the index of a symbol	table entry of a common object/	ldtbindex(3X)
file. /read an indexed symbol	table entry of a common object.	ldtbread(3X)
common object file symbol	table format. syms: . . . . .	syms(4)
master device information	table. master:. . . . .	master(4)
mnttab: mounted file system	table . . . . .	mnttab(4)
ldtbseek: seek to the symbol	table of a common object file .	ldtbseek(3X)
setmnt: establish mount	table . . . . .	setmnt(1M)
tbl: format	tables for nroff or troff . . .	tbl(1)
hdestroy: manage hash search	tables. hsearch, hcreate. . . .	hsearch(3C)
tabs: set	tabs on a terminal. . . . .	tabs(1)
	tabs: set tabs on a terminal. .	tabs(1)
ctags: create a	tags file . . . . .	ctags(1)
a file.	tail: deliver the last part of.	tail(1)
request. quRemove:	take back a RTOS queue. . . . .	quremove(3X)
trigonometric/ sin, cos,	tan, asin, acos, atan, atan2: .	trig(3M)
sinh, cosh,	tanh: hyperbolic functions. . .	sinh(3M)
tar:	tape file archiver. . . . .	tar(1)
recover files from a backup	tape. frec: . . . . .	frec(1M)
mt: interface for magnetic	tape. . . . .	mt(7)
	tar: tape file archiver . . . .	tar(1)
programs for simple lexical	tasks. lex: generate. . . . .	lex(1)
deroff: remove nroff/troff,	tbl, and eqn constructs . . . .	deroff(1)
or troff.	tbl: format tables for nroff. .	tbl(1)
search trees. tsearch, tfind,	tdelete, twalk: manage binary .	tsearch(3C)
	tdl: rs232 terminal download .	tdl(1)
	tee: pipe fitting . . . . .	tee(1)
	TEKTRONIX 4014 terminal . . . .	4014(1)
4014: paginator for the	telinit: process control. . . .	init(1M)
initialization. init, icode,	tmpnam: create a name for a . .	tmpnam(3S)
temporary file. tmpnam,	temporary file. . . . .	tmpfile(3S)
tmpfile: create a	temporary file. tmpnam, . . . .	tmpnam(3S)
tmpnam: create a name for a	term: conventional names for. .	term(5)
terminals.	term file . . . . .	term(4)
term: format of compiled	term: format of compiled term .	term(4)
file.	termcap: terminal capability. .	termcap(4)
data base.	term.cnfg: configure terminal .	term.cnfg(1M)
download files.	terminal. 4014: paginator . . .	4014(1)
for the TEKTRONIX 4014	terminal. 450: handle special .	450(1)
functions of the DASI 450	terminal capability data base .	termcap(4)
termcap:	terminal capability data base .	terminfo(4)
terminfo:	terminal. . . . .	console(7)
console: console	terminal. . . . .	ct(1C)
ct: spawn getty to a remote	terminal. /cstty: character. . .	cstty(1)
set control for a	terminal. ctermid:. . . . .	ctermid(3S)
generate file name for		

tdl: rs232	terminal download . . . . .	tdl(1)
term.cnfg: configure	terminal download files . . . . .	term.cnfg(1M)
/terminal inteface, and	terminal environment. . . . .	tset(1)
greek: select	terminal filter . . . . .	greek(1)
/tgetstr, tgoto, tputs:	terminal independent/ . . . . .	termcap(3X)
/manually start and stop	terminal input and output . . . . .	rsterm(1M)
terminal/ tset: set terminal,	terminal inteface, and. . . . .	tset(1)
termio: general	terminal interface. . . . .	termic(7)
tty: controlling	terminal interface. . . . .	tty(7)
interface. /cstermio:	terminal I/O character-set. . . . .	cstermio(7)
itt: initialize	terminal I/O translation. . . . .	itt(1M)
dial: establish an out-going	terminal line connection. . . . .	dial(3C)
list of terminal types by	terminal number. ttytype: . . . . .	ttytype(4)
clear: clear	terminal screen . . . . .	clear(1)
script: make typescript of	terminal session. . . . .	script(1)
getty. gettydefs: speed and	terminal settings used by . . . . .	gettydefs(4)
stty: set the options for a	terminal. . . . .	stty(1)
tabs: set tabs on a	terminal. . . . .	tabs(1)
and terminal/ tset: set	terminal, terminal inteface,. . . . .	tset(1)
connection. /tmdl:	terminal through RS-232 . . . . .	tmdl(1)
system/ conlocate: locate a	terminal to use as the virtual. . . . .	conlocate(1M)
isatty: find name of a	terminal. ttyname,. . . . .	ttyname(3C)
and line/ getty: set	terminal type, modes, speed,. . . . .	getty(1M)
number. ttytype: list of	terminal types by terminal. . . . .	ttytype(4)
functions of DASI 300 and 300s	terminals. /handle special. . . . .	300(1)
of HP 2640 and 2621-series	terminals. /special functions . . . . .	hp(1)
channels. tp: controlling	terminal's local RS-232 . . . . .	tp(7)
tty: get the	terminal's name . . . . .	tty(1)
perusal filter for soft-copy	terminals. pg: file . . . . .	pg(1)
term: conventional names for	terminals . . . . .	term(5)
wmlayout: get	terminal's window layout. . . . .	wmlayout(3X)
kill:	terminate a process . . . . .	kill(1)
shutdown, halt:	terminate all processing . . . . .	shutdown(1M)
exit, _exit:	terminate process . . . . .	exit(2)
wait for spawned process to	terminate. spwait:. . . . .	spwait(3X)
daemon. errstop:	terminate the error-logging . . . . .	errstop(1M)
for child process to stop or	terminate. wait: wait . . . . .	wait(2)
tic:	terminfo compiler . . . . .	tic(1M)
data base.	terminfo: terminal capacity . . . . .	terminfo(4)
interface.	termio: general terminal. . . . .	termio(7)
command.	test: condition evaluation. . . . .	test(1)
quiz:	test your knowledge . . . . .	quiz(6)
ed, red:	text editor . . . . .	ed(1)
ex:	text editor . . . . .	ex(1)
translator. /cstrans:	text-file character-set . . . . .	cstrans(1)
change the format of a	text file. newform: . . . . .	newform(1)
fspec: format specification in	text files. . . . .	fspec(4)
/checkedq: format mathematical	text for nroff or troff . . . . .	eqn(1)
prepare constant-width	text for troff. cw, checkow:. . . . .	cw(1)

nroff: format	text. . . . .	nroff(1)
more, page:	text perusal. . . . .	more(1)
strings: extract the ASCII	text strings in a file. . . . .	strings(1)
troff: typeset	text. . . . .	troff(1)
binary search trees. tsearch,	tfind, tdelete, twalk: manage. . . . .	tsearch(3C)
tgetstr, tgoto, tputs:/	tgetent, tgetnum, tgetflag, . . . . .	termcap(3X)
tputs:/ tgetent, tgetnum,	tgetflag, tgetstr, tgoto, . . . . .	termcap(3X)
tgoto, tputs:/ tgetent,	tgetnum, tgetflag, tgetstr, . . . . .	termcap(3X)
tgetent, tgetnum, tgetflag,	tgetstr, tgoto, tputs:/ . . . . .	termcap(3X)
/tgetnum, tgetflag, tgetstr,	tgoto, tputs: terminal/ . . . . .	termcap(3X)
	tic: terminfo compiler . . . . .	tic(1M)
tft, cubic:	tic-tac-toe . . . . .	tft(6)
data and system/ timex:	time a command; report process. . . . .	timex(1)
time:	time a command. . . . .	time(1)
systems for optimal access	time. dcopy: copy file. . . . .	dcopy(1M)
	time: get time. . . . .	time(2)
profil: execution	time profile. . . . .	profil(2)
up an environment at login	time. profile: setting. . . . .	profile(4)
stime: set	time. . . . .	stime(2)
	time: time a command . . . . .	time(1)
time: get	time. . . . .	time(2)
tzset: convert date and	time to string. /asctime, . . . . .	ctime(3C)
clock: report CPU	time used . . . . .	clock(3C)
process times.	times: get process and child. . . . .	times(2)
update access and modification	times of a file. touch: . . . . .	touch(1)
get process and child process	times. times: . . . . .	times(2)
file access and modification	times. utime: set . . . . .	utime(2)
process data and system/	timex: time a command; report . . . . .	timex(1)
RS-232 connection.	tmdl: download terminal through tmdl(1)	tmdl(1)
file.	tmpfile: create a temporary . . . . .	tmpfile(3S)
for a temporary file.	tmpnam, tmpnam: create a name. tmpnam(3S)	tmpnam(3S)
/tolower, toupper, tolower,	toascii: translate characters . . . . .	conv(3C)
popen, pclose: initiate pipe	to/from a process . . . . .	popen(3S)
toupper, tolower, toupper,	_tolower, toascii: translate/ . . . . .	conv(3C)
toascii: translate/ toupper,	tolower, toupper, tolower, . . . . .	conv(3C)
tsort:	topological sort. . . . .	tsort(1)
acctmerg: merge or add	total accounting files. . . . .	acctmerg(1M)
modification times of a file.	touch: update access and. . . . .	touch(1)
translate/ toupper, tolower,	_toupper, tolower, toascii: . . . . .	conv(3C)
_tolower, toascii: translate/	toupper, tolower, toupper, . . . . .	conv(3C)
local RS-232 channels.	tp: controlling terminal's. . . . .	tp(7)
/tgetflag, tgetstr, tgoto,	tputs: terminal independent/. . . . .	termcap(3X)
	tr: translate characters. . . . .	tr(1)
ptrace: process	trace . . . . .	ptracd(2)
swapshort, swaplong:	translate byte orders to/ . . . . .	swapshort(3X)
/_toupper, _tolower, toascii:	translate characters. . . . .	conv(3C)
tr:	translate characters. . . . .	tr(1)
character-set	translation. /cstrans: perform cstrans(3X)	cstrans(3X)
terminal I/O	translation. /itt: initialize. itt(1M)	itt(1M)





a file.	uniq: report repeated lines in.	uniq(1)
mktemp: make a	unique file name. . . . .	mktemp(3C)
unlink system calls.	link, entry.	link(1M)
unlink: exercise link and	unlink: remove directory. . . .	unlink(2)
umount:	unlink system calls. link, . . .	link(1M)
files. pack, pcat,	umount a file system . . . . .	umount(2)
times of a file. touch:	unpack: compress and expand . .	pack(1)
of programs. make: maintain,	update access and modifications	touch(1)
lfind: linear search and	update, and regenerate groups .	make(1)
synchronization.	update. lsearch, . . . . .	lsearch(3C)
sync:	update: provide disk. . . . .	update(1M)
sync:	update super-block. . . . .	sync(2)
du: summarize disk	update the super block. . . . .	sync(1)
id: print	usage . . . . .	du(1)
setuid, setgid: set	user and group IDs and names. .	id(1)
character login name of the	user and group IDs. . . . .	setuid(2)
/getgid, getegid: get real	user. cuserid: get. . . . .	cuserid(3S)
environ:	user, effective user, real/ . .	getuid(2)
ulimit: get and set	user environment. . . . .	environ(5)
logname: return login name of	user limits . . . . .	ulimit(2)
/get real user, effective	user. . . . .	logname(3X)
become super-user or another	user, real group, and/. . . . .	getuid(2)
the utmp file of the current	user. su: . . . . .	su(1)
write: write to another	user. /find the slot in . . . .	ttyslot(3C)
mail, rmail: send mail to	user. . . . .	write(1)
wall: write to all	users or read mail. . . . .	mail(1)
fuser: identify processes	users . . . . .	wall(1M)
statistics.	using a file or file/ . . . . .	fuser(1M)
modification times.	ustat: get file system. . . . .	ustat(2)
utmp, wtmp:	utime: set file access and. . .	utime(2)
endutent, utmpname: access	utmp and wtmp entry formats . .	utmp(4)
ttyslot: find the slot in the	utmp file entry. /setutent, . .	getut(3C)
entry formats.	utmp file of the current user .	ttyslot(3C)
pututline, setutent, endutent,	utmp, wtmp: utmp and wtmp . . .	utmp(4)
clean-up.	utmpname: access utmp file/ . .	getut(3C)
uusub: monitor	uuclean: uucp spool directory .	uuclean(1M)
uuclean:	uucp network. . . . .	uusub(1M)
control. uustat:	uucp spool directory clean-up .	uuclean(1M)
between computer systems.	uucp status inquiry and job . .	uustat(1C)
between computer/ uucp,	uucp, uulong, uuname: copy data	uucp(1C)
computer/ uucp, uulog,	uulog, uuname: copy data. . . .	uucp(1C)
system-to-computer/ uuto,	uuname: copy data between . . .	uucp(1C)
and job control.	uupick: public computer . . . .	uuto(1C)
system-to-computer system/	uustat: uucp status inquiry . .	uustat(1C)
execution.	uusub: monitor uucp network . .	uusub(1M)
	uuto, uupick: public computer .	uux(1C)
	uux: remote system command. . .	uux(1C)
	val: validate SCSS file . . . .	val(1)

val:	validate SCCS file. . . . .	val(1)
abs: return integer absolute	value . . . . .	abs(3C)
getenv: return	value for environment name. . .	getenv(3C)
ceiling, remainder, absolute	value functions. /fabs: floor, .	floor(3M)
putenv: change or add	value to environment. . . . .	putenv(3C)
values.	values: machine-dependent . . .	values(5)
true, false: provide truth	values. . . . .	values(5)
/print formatted output of a	varargs argument list . . . . .	vprintf(3S)
argument list.	varargs: handle variable. . . .	varargs(5)
varargs: handle	variable argument list. . . . .	varargs(5)
mc68k, pdp11, u3b,	vax: processor type . . . . .	machid(1)
option letter from argument	vc: version control . . . . .	vc(1)
assert:	vector. getopt: get . . . . .	getopt(3C)
vc:	verify program assertion. . . .	assert(3X)
get: get a	version control . . . . .	vc(1)
sccsdiff: compare two	version of an SCCS file . . . . .	get(1)
formatted output of/ vprintf,	versions of an SCCS file. . . .	sccsdiff(1)
display editor based on ex.	vfprintf: vsprintf: print . . .	vprintf(3S)
mmt, mvt: typeset documents,	vi: screen-oriented (visual). .	vi(1)
/a terminal to use as the	view graphs, and slides . . . .	mmt(1)
on ex. vi: screen-oriented	virtual system console. . . . .	conlocate(1M)
systems with label checking.	(visual) display editor based .	vi(1)
iv: initialize and maintain	volcopy, labelit: copy file . .	volcopy(1M)
pr8int formatted output of a/	volume. . . . .	iv(1)
output of/ vprintf, vfprintf,	vprintf, vfprintf, vsprintf: . .	vprintf(3S)
process.	vsprintf: print formatted . . .	vprintf(3S)
or terminate. wait:	wait: await completion of . . .	wait(1)
terminate. spwait:	wait for child process to stop.	wait(2)
exCall: Send a request and	wait for spawned process to . .	spwait(3X)
to stop or terminate.	wait for the response . . . . .	excall(2)
ftw:	wait: wait for child process. .	wait(2)
signal. signal: specify	walk a file tree. . . . .	ftw(3C)
whodo:	wall: write to all users. . . .	wall(1M)
who:	wc: word count. . . . .	wc(1)
what: identify SCCS files . . .	what: identify SCCS files . . .	what(1)
what to do upon receipt of a .	what to do upon receipt of a .	signal(2)
who is doing what . . . . .	who is doing what . . . . .	whodo(1M)
who is on the system. . . . .	who is on the system. . . . .	who(1)
who: who is on the system . . .	who: who is on the system . . .	who(1)
whodo: who is doing what. . . .	whodo: who is doing what. . . .	whodo(1M)
fold long lines for finite	width output device. fold: . . .	fold(1)
floppy disks. fp:	winchester, cartridge, and. . .	fp(7)
nw: initialize new	window. . . . .	nw(1)
wmgetid: get	window ID . . . . .	wmgetid(3X)
wmlayout: get terminal's	window layout . . . . .	wmlayout(3X)
wmop:	window management operations .	wmop(3X)
window:	window management primitives. .	window(7)
wm:	window management . . . . .	wm(1)
primitives.	window: window management . . .	window(7)

a file descriptor with a	window. /wmsetids: associate. . . . .	wmsetid(3X)
	wm: window management . . . . .	wm(1)
window layout.	wmgetid: get window ID. . . . .	wmgetid(3X)
operations.	wmlayout: get terminal's. . . . .	wmlayout(3X)
file descriptor with a/	wmop: window management . . . . .	wmop(3X)
descriptor with a/ wmsetid,	wmsetid, wmsetids: associate a. . . . .	wmsetid(3X)
cd: change	wmsetids: associate a file. . . . .	wmsetid(3X)
chdir: change	working directory . . . . .	cd(1)
get path-name of current	working directory . . . . .	chdir(2)
pwd:	working directory. getcwd:. . . . .	getcwd(3C)
swrite: synchronous	working directory name. . . . .	pwd(1)
write:	write on a file . . . . .	swrite(2)
putpwent:	write on a file . . . . .	write(2)
wall:	write password file entry . . . . .	putpwent(3C)
write:	write to all users. . . . .	wall(1M)
	write to another user . . . . .	write(1)
	write: write on a file. . . . .	write(2)
	write: write to another user. . . . .	write(1)
open: open for reading or	writing . . . . .	open(2)
utmp, wtmp: utmp and	wtmp entry formats. . . . .	utmp(4)
formats. utmp,	wtmp: utmp and wtmp entry . . . . .	utmp(4)
accounting records. fwtmp,	wtmpfix: manipulate connect . . . . .	fwtmp(1M)
hunt-the-wumpus.	wump: the game of . . . . .	wump(6)
list(s) and execute command.	xargs: construct argument . . . . .	xargs(1)
strings in C programs	xstr: extract and share . . . . .	xstr(1)
j0, j1, jn,	y0, y1, yn: Bessel functions. . . . .	bessel(3M)
j0, j1, jn, y0,	y1, yn: Bessel functions. . . . .	bessel(3M)
compiler-compiler.	yaac: yet another . . . . .	yacc(1)
j0, j1, jn, y0, y1,	yn: Bessel functions. . . . .	bessel(3M)

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## TABLE OF CONTENTS

### 2. System Calls

intro	. . . . .	introduction to system calls and error numbers
access	. . . . .	determine accessibility of a file
acct	. . . . .	enable or disable process accounting
alarm	. . . . .	set a process alarm clock
brk	. . . . .	change data segment space allocation
chdir	. . . . .	change working directory
chmod	. . . . .	change mode of file
chown	. . . . .	change owner and group of a file
chroot	. . . . .	change root directory
close	. . . . .	close a file descriptor
creat	. . . . .	create a new file or rewrite an existing one
dup	. . . . .	duplicate an open file descriptor
excall	. . . . .	Send a request and wait for the response
exchanges	. . . . .	obtain and abandon exchanges
excrequest	. . . . .	remove a request from an exchange
excresp	. . . . .	remove a response from an exchange
exec	. . . . .	execute a file
exfinal	. . . . .	make final requests
exit	. . . . .	terminate process
exrequest	. . . . .	Send a message to a server
exrespond	. . . . .	send a message to a client
exserverq	. . . . .	appropriate a request code
exwait	. . . . .	examine an ICC message queue
fctl	. . . . .	file control
fork	. . . . .	create a new process
getpid	. . . . .	get process, process group, and parent process IDs
getuid	. . . . .	get real user, effective user, real group, and effective group IDs
ioctl	. . . . .	control device
kill	. . . . .	send a signal to a process or a group of processes
link	. . . . .	link to a file
locking	. . . . .	exclusive access to regions of a file
lseek	. . . . .	move read/write file pointer
mknod	. . . . .	make a directory, or a special or ordinary file
mount	. . . . .	mount a file system
msgctl	. . . . .	message control operations
msgget	. . . . .	get message queue
msgop	. . . . .	message operations
nice	. . . . .	change priority of a process
open	. . . . .	open for reading or writing
openi	. . . . .	open a file specified by i-node
pause	. . . . .	suspend process until signal
pipe	. . . . .	create an interprocess channel
profil	. . . . .	execution time profile
ptrace	. . . . .	process trace
read	. . . . .	read from file
semctl	. . . . .	semaphore control operations
semget	. . . . .	get set of semaphores
semop	. . . . .	semaphore operations
setpgrp	. . . . .	set process group ID
setuid	. . . . .	set user and group IDs

Table of Contents

shmctl . . . . . shared memory control operations  
shmget . . . . . get shared memory segment  
shmop . . . . . shared memory operations  
signal . . . . . specify what to do upon receipt of a signal  
stat . . . . . get file status  
stime . . . . . set time  
swrite . . . . . synchronous write on a file  
sync . . . . . update super-block  
syslocal . . . . . special system requests  
time . . . . . get time  
times . . . . . get process and child process times  
ulimit . . . . . get and set user limits  
umask . . . . . set and get file creation mask  
umount . . . . . unmount a file system  
uname . . . . . get name of current operating system  
unlink . . . . . remove directory entry  
ustat . . . . . get file system statistics  
utime . . . . . set file access and modification times  
wait . . . . . wait for child process to stop or terminate  
write . . . . . write on a file

3. Library Functions

intro . . . . . introduction to subroutines and libraries  
a64l . . . . . convert between long integer and base-64 ASCII string  
abort . . . . . generate an IOT fault  
abs . . . . . return integer absolute value  
assert . . . . . verify program assertion  
atof . . . . . convert ASCII string to floating-point number  
bessel . . . . . Bessel functions  
bsearch . . . . . binary search a sorted table  
clock . . . . . report CPU time used  
conv . . . . . translate characters  
crypt . . . . . generate DES encryption  
ctermid . . . . . generate file name for terminal  
ctime . . . . . convert date and time to string  
ctype . . . . . classify characters  
curses . . . . . CRT screen handling and optimization package  
cuserid . . . . . get character login name of the user  
dial . . . . . establish an out-going terminal line connection  
drand48 . . . . . generate uniformly distributed pseudo-random numbers  
ecvt . . . . . convert floating-point number to string  
end . . . . . last locations in program  
erf . . . . . error function and complementary error function  
exp . . . . . exponential, logarithm, power, square root functions  
fclose . . . . . close or flush a stream  
ferror . . . . . stream status inquiries  
floor . . . . . floor, ceiling, remainder, absolute value functions  
fopen . . . . . open a stream  
fread . . . . . binary input/output  
frexp . . . . . manipulate parts of floating-point numbers  
fseek . . . . . reposition a file pointer in a stream  
ftw . . . . . walk a file tree

gamma	. . . . .	. log gamma function
getc	. . . . .	. get character or word from a stream
getcwd	. . . . .	. get path-name of current working directory
getenv	. . . . .	. return value for environment name
getgrent	. . . . .	. get group file entry
getlogin	. . . . .	. get login name
getopt	. . . . .	. get option letter from argument vector
getpass	. . . . .	. read a password
getpw	. . . . .	. get name from UID
getpwent	. . . . .	. get password file entry
gets	. . . . .	. get a string from a stream
getut	. . . . .	. access utmp file entry
hsearch	. . . . .	. manage hash search tables
hypot	. . . . .	. Euclidean distance function
l3tol	. . . . .	. convert between 3-byte integers and long integers
ldahread	. . . . .	. read the archive header of a member of an archive file
ldclose	. . . . .	. close a common object file
ldfhead	. . . . .	. read the file header of a common object file
ldgetname	. . . . .	. retrieve symbol name for common object file symbol table entry
ldlread	. . . . .	. manipulate line number entries of a common object file function
ldlseek	. . . . .	. seek to line number entries of a section of a common object file
ldohseek	. . . . .	. seek to the optional file header of a common object file
ldopen	. . . . .	. open a common object file for reading
ldrseek	. . . . .	. seek to relocation entries of a section of a common object file
ldshread	. . . . .	. read an indexed/named section header of a common object file
ldsseek	. . . . .	. seek to an indexed/named section of a common object file
ldtbindex	. . . . .	. compute the index of a symbol table entry of a common object file
ldtbread	. . . . .	. read an indexed symbol table entry of a common object file
ldtbseek	. . . . .	. seek to the symbol table of a common object file
logname	. . . . .	. return login name of user
lsearch	. . . . .	. linear search and update
malloc	. . . . .	. main memory allocator
malloc	. . . . .	. fast main memory allocator
matherr	. . . . .	. error-handling function
memory	. . . . .	. memory operations
mktemp	. . . . .	. make a unique file name
monitor	. . . . .	. prepare execution profile
nlist	. . . . .	. get entries from name list
ocurse	. . . . .	. optimized screen functions
ofcreate	. . . . .	. Allocate RTOS files
ofdir	. . . . .	. RTOS directory functions
ofopen	. . . . .	. Access RTOS files
ofread	. . . . .	. Input/output on a RTOS file
ofrename	. . . . .	. rename a RTOS file
ofstatus	. . . . .	. RTOS File Status
perror	. . . . .	. system error messages
plot	. . . . .	. graphics interface subroutines
popen	. . . . .	. initiate pipe to/from a process
printf	. . . . .	. print formatted output
putc	. . . . .	. put character or word on a stream
putenv	. . . . .	. change or add value to environment
putpwent	. . . . .	. write password file entry

Table of Contents

puts	. . . . .	put a string on a stream
qsort	. . . . .	quicker sort
quadd	. . . . .	add a new entry to a RTOS queue
qread	. . . . .	examine RTOS queue
qremove	. . . . .	take back a RTOS queue request
rand	. . . . .	simple random-number generator
regemp	. . . . .	compile and execute regular expression
scanf	. . . . .	convert formatted input
setbuf	. . . . .	assign buffering to a stream
setjmp	. . . . .	non-local goto
sinh	. . . . .	hyperbolic functions
sleep	. . . . .	suspend execution for interval
spawn	. . . . .	execute a process on a specific Application Processor
sputl	. . . . .	access long integer data in a machine-independent fashion.
spwait	. . . . .	wait for spawned process to terminate
ssignal	. . . . .	software signals
stdio	. . . . .	standard buffered input/output package
stdipc	. . . . .	standard interprocess communication package (ftok)
string	. . . . .	string operations
strtod	. . . . .	convert string to double-precision number
strtol	. . . . .	convert string to integer
swab	. . . . .	swap bytes
swapshort	. . . . .	translate byte orders to Motorola/Intel
system	. . . . .	issue a shell command
termcap	. . . . .	terminal independent operations
tmpfile	. . . . .	create a temporary file
tmpnam	. . . . .	create a name for a temporary file
trig	. . . . .	trigonometric functions
tsearch	. . . . .	manage binary search trees
ttyname	. . . . .	find name of a terminal
ttyslot	. . . . .	find the slot in the utmp file of the current user
ungetc	. . . . .	push character back into input stream
vprintf	. . . . .	print formatted output of a varargs argument list
wmgetid	. . . . .	get window ID
wmlayout	. . . . .	get terminal's window layout
wmop	. . . . .	window management operations
wmsetid	. . . . .	associate a file descriptor with a window

4. File Formats

intro	. . . . .	introduction to file formats
a.out	. . . . .	common assembler and link editor output
acct	. . . . .	per-process accounting file format
ar	. . . . .	common archive file format
checklist	. . . . .	list of file systems processed by fsck
core	. . . . .	format of core image file
cpio	. . . . .	format of cpio archive
dir	. . . . .	format of directories
errfile	. . . . .	error-log file format
filehdr	. . . . .	file header for common object files
fs	. . . . .	format of file system
fspec	. . . . .	format specification in text files
gettydefs	. . . . .	speed and terminal settings used by getty



group . . . . . group file  
 inittab . . . . . script for the init process  
 inode . . . . . format of an i-node  
 issue . . . . . issue identification file  
 ldfcn . . . . . common object file access routines  
 linenum . . . . . line number entries in a common object file  
 master . . . . . master device information table  
 mnttab . . . . . mounted file system table  
 passwd . . . . . password file  
 profile . . . . . setting up an environment at login time  
 reloc . . . . . relocation information for a common object file  
 sccsfile . . . . . format of SCCS file  
 scnhdr . . . . . section header for a common object file  
 syms . . . . . common object file symbol table format  
 term . . . . . format of compiled term file.  
 termcap . . . . . terminal capability data base  
 terminfo . . . . . terminal capability data base  
 ttytype . . . . . list of terminal types by terminal number  
 utmp . . . . . utmp and wtmp entry formats

5. Miscellaneous Facilities

intro . . . . . introduction to miscellany  
 ascii . . . . . map of ASCII character set  
 environ . . . . . user environment  
 eqnchar . . . . . special character definitions for eqn and neqn  
 fcntl . . . . . file control options  
 man . . . . . macros for formatting entries in this manual  
 math . . . . . math functions and constants  
 mm . . . . . the MM macro package for formatting documents  
 modemcap . . . . . smart modem capability data base  
 mptx . . . . . the macro package for formatting a permuted index  
 mv . . . . . special character definitions for eqn and neqn  
 pilf . . . . . performance improvement in large files and direct I/O  
 prof . . . . . profile within a function  
 regex . . . . . regular expression compile and match routines  
 stat . . . . . data returned by stat system call  
 term . . . . . conventional names for terminals  
 types . . . . . primitive system data types  
 values . . . . . machine-dependent values  
 varargs . . . . . handle variable argument list

6. Games

intro . . . . . introduction to games  
 advent . . . . . explore Colossal Cave  
 arithmetic . . . . . provide drill in number facts  
 back . . . . . the game of backgammon  
 bj . . . . . the game of black jack  
 craps . . . . . the game of craps  
 hangman . . . . . guess the word  
 maze . . . . . generate a maze  
 moo . . . . . guessing game

Table of Contents

quiz . . . . . test your knowledge  
trk . . . . . trekkie game  
ttt . . . . . tic-tac-toe  
wump . . . . . the game of hunt-the-wumpus

7. Special Files

intro . . . . . introduction to special files  
console . . . . . console terminal  
err . . . . . error-logging interface  
fp . . . . . winchester, cartridge, and floppy disks  
lp . . . . . parallel printer interface  
mem . . . . . core memory  
mt . . . . . interface for magnetic tape  
null . . . . . the null file  
termio . . . . . general terminal interface  
tp . . . . . controlling terminal's local RS-232 channels  
tty . . . . . controlling terminal interface  
window . . . . . window management primitives