

**UNIX Programmer's Reference Manual
(PRM)**

**EUNICE BSD
Version 4.3.2**

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2. System Calls

intro	introduction to system calls and error numbers
accept	accept a connection on a socket
access	determine accessibility of file
acct	turn accounting on or off
adjtime	correct the time to allow synchronization of the system clock
bind	bind a name to a socket
brk	change data segment size
chdir	change current working directory
chmod	change mode of file
chown	change owner and group of a file
chroot	change root directory
close	delete a descriptor
connect	initiate a connection on a socket
creat	create a new file
dup	duplicate a descriptor
exec	execute a file
exit	terminate a process
fcntl	file control
flock	apply or remove an advisory lock on an open file
fork	create a new process
fsync	synchronize a file's in-core state with that on disk
getdtablesize	get descriptor table size
getgid	get group identity
getgroups	get group access list
gethostid	get/set unique identifier of current host
gethostname	get/set name of current host
getitimer	get/set value of interval timer
getpagesize	get system page size
getpeername	get name of connected peer
getpgrp	get process group
getpid	get process identification
getpriority	get/set program scheduling priority
getrlimit	control maximum system resource consumption
getrusage	get information about resource utilization
getsockname	get socket name
getsockopt	get and set options on sockets
gettimeofday	get/set date and time
getuid	get user identity
ioctl	control device
kill	send signal to a process
killpg	send signal to a process group
link	make a hard link to a file
listen	listen for connections on a socket
lseek	move read/write pointer
mkdir	make a directory file
mknod	make a special file
mount	mount or remove file system
open	open a file for reading or writing, or create a new file
pipe	create an interprocess communication channel
profil	execution time profile
ptrace	process trace
quota	manipulate disk quotas
read	read input
readlink	read value of a symbolic link
reboot	reboot system or halt processor
recv	receive a message from a socket

rename	change the name of a file
rmdir	remove a directory file
select	synchronous I/O multiplexing
send	send a message from a socket
setgroups	set group access list
setgrp	set process group
setquota	enable/disable quotas on a file system
setregid	set real and effective group ID
setreuid	set real and effective user ID's
shutdown	shut down part of a full-duplex connection
sigblock	block signals
sigpause	atomically release blocked signals and wait for interrupt
sigreturn	return from signal
sigsetmask	set current signal mask
sigstack	set and/or get signal stack context
sigvec	software signal facilities
socket	create an endpoint for communication
socketpair	create a pair of connected sockets
stat	get file status
swapon	add a swap device for interleaved paging/swapping
symlink	make symbolic link to a file
sync	update super-block
syscall	indirect system call
truncate	truncate a file to a specified length
umask	set file creation mode mask
unlink	remove directory entry
utimes	set file times
vfork	spawn new process in a virtual memory efficient way
vhangup	virtually "hangup" the current control terminal
wait	wait for process to terminate
write	write output

3. C Library Subroutines

intro	introduction to C library functions
abort	generate a fault
abs	integer absolute value
alarm	schedule signal after specified time
asinh	inverse hyperbolic functions
assert	program verification
atof	convert ASCII to numbers
bstring	bit and byte string operations
byteorder	convert values between host and network byte order
crypt	DES encryption
ctime	convert date and time to ASCII
ctype	character classification macros
curses	screen functions with "optimal" cursor motion
dbm	data base subroutines
directory	directory operations
ecvt	output conversion
end	last locations in program
erf	error functions
execl	execute a file
exit	terminate a process after flushing any pending output
exp	exponential, logarithm, power
fclose	close or flush a stream
ferror	stream status inquiries
floor	absolute value, floor, ceiling, and round-to-nearest functions
fopen	open a stream
fread	buffered binary input/output

frexp	split into mantissa and exponent
fseek	reposition a stream
getc	get character or word from stream
getdiskbyname	get disk description by its name
getenv	value for environment name
getfsent	get file system descriptor file entry
getgrent	get group file entry
gethostbyname	get network host entry
getlogin	get login name
getnetent	get network entry
getopt	get option letter from argv
getpass	read a password
getprotoent	get protocol entry
getpw	get name from uid
getpwent	get password file entry
gets	get a string from a stream
getservent	get service entry
gettyent	get ttys file entry
getusershell	get legal user shells
getwd	get current working directory pathname
hypot	Euclidean distance, complex absolute value
ieee	copysign, remainder, exponent manipulations
inet	Internet address manipulation routines
infnan	signals invalid floating-point operations on a VAX (temporary)
initgroups	initialize group access list
insque	insert/remove element from a queue
j0	bessel functions
lgamma	log gamma function
lib2648	subroutines for the HP 2648 graphics terminal
malloc	memory allocator
math	introduction to mathematical library functions
mktemp	make a unique file name
monitor	prepare execution profile
mp	multiple precision integer arithmetic
ndbm	data base subroutines
nice	set program priority
nlist	get entries from name list
ns	Xerox NS(tm) address conversion routines
pause	stop until signal
perror	system error messages
plot	graphics interface
popen	initiate I/O to/from a process
printf	formatted output conversion
psignal	system signal messages
putc	put character or word on a stream
puts	put a string on a stream
qsort	quicker sort
rand	random number generator
random	better random number generator; routines for changing generators
rcmd	routines for returning a stream to a remote command
regex	regular expression handler
resolver	resolver routines
rexec	return stream to a remote command
scandir	scan a directory
scanf	formatted input conversion
setbuf	assign buffering to a stream
setjmp	non-local goto
setuid	set user and group ID
siginterrupt	allow signals to interrupt system calls

signal simplified software signal facilities
sin trigonometric functions and their inverses
sinh hyperbolic functions
sleep suspend execution for interval
sqrt cube root, square root
stdio standard buffered input/output package
string string operations
stty set and get terminal state (defunct)
swab swap bytes
syslog control system log
system issue a shell command
termcap terminal independent operation routines
time get date and time
times get process times
ttyname find name of a terminal
ualarm schedule signal after specified time
ungetc push character back into input stream
usleep suspend execution for interval
utime set file times
valloc aligned memory allocator
varargs variable argument list
vlimit control maximum system resource consumption
vtimes get information about resource utilization

3f. Fortran Library

intro introduction to FORTRAN library functions
abort abnormal termination
access determine accessibility of a file
alarm execute a subroutine after a specified time
bessel of two kinds for integer orders
bit and, or, xor, not, rshift, lshift bitwise functions
chdir change default directory
chmod change mode of a file
etime return elapsed execution time
exit terminate process with status
fdate return date and time in an ASCII string
flmin return extreme values
flush flush output to a logical unit
fork create a copy of this process
fseek reposition a file on a logical unit
getarg return command line arguments
getc get a character from a logical unit
getcwd get pathname of current working directory
getenv get value of environment variables
getlog get user's login name
getpid get process id
getuid get user or group ID of the caller
hostnm get name of current host
idate return date or time in numerical form
index tell about character objects
ioinit change f77 I/O initialization
kill send a signal to a process
link make a link to an existing file
loc return the address of an object
long integer object conversion
malloc memory allocator
perror get system error messages
plot f77 library interface to *plot* (3X) libraries.
putc write a character to a fortran logical unit

qsort	quick sort
rand	return random values
random	better random number generator
rename	rename a file
signal	change the action for a signal
sleep	suspend execution for an interval
stat	get file status
system	execute a UNIX command
time	return system time
topen	f77 tape I/O
traper	trap arithmetic errors
trapov	trap and repair floating point overflow
trpfe	trap and repair floating point faults
ttynam	find name of a terminal port
unlink	remove a directory entry
wait	wait for a process to terminate

4. Special Files

intro	introduction to special files and hardware support
cons	VAX-11 console interface
fl	console floppy interface
mt	TM78/TU-78 MASSBUS magtape interface
null	data sink
printer	line printer interface
rta	DECnet virtual terminal interface
tty	general terminal interface
ttyp	tcp/ip virtual terminal interface

5. File Formats

intro	file formats and conventions
L-devices	UUCP device description file
L-dialcodes	UUCP phone number index file
L.aliases	UUCP hostname alias file
L.cmds	UUCP remote command permissions file
L.sys	UUCP remote host description file
USERFILE	UUCP pathname permissions file
a.out	assembler and link editor output
acct	execution accounting file
aliases	aliases file for sendmail
ar	archive (library) file format
core	format of memory image file
dbx	dbx symbol table information
dir	format of directories
disktab	disk description file
dump	incremental dump format
fs	format of file system volume
fstab	static information about the filesystems
gettytab	terminal configuration data base
group	group file
hosts	host name data base
map3270	database for mapping ascii keystrokes into IBM 3270 keys
mtab	mounted file system table
networks	network name data base
passwd	password file
phones	remote host phone number data base
plot	graphics interface
printcap	printer capability data base
protocols	protocol name data base

rscfile	format of RCS file
remote	remote host description file
resolver	resolver configuration file
services	service name data base
stab	symbol table types
tar	tape archive file format
termcap	terminal capability data base
tp	DEC/mag tape formats
ttys	terminal initialization data
types	primitive system data types
utmp	login records
uuencode	format of an encoded uuencode file
vfont	font formats for the Benson-Varian or Versatec
vgrindfs	vgrind's language definition data base