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The Authorized Guide to the Single UNIX Specification, Version 4

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Chapter 7

System Interface Table

7.1 Introduction

This chapter contains a table of all the interfaces defined in XSH, Issue 7, complete with an indication of their status for XSI-conforming and POSIX-conforming systems, and their availability in UNIX 03 (denoted by U03), UNIX 98 (denoted by U98), UNIX 95 (denoted by U95), POSIX.1-2001 (denoted P01), the IEEE Std 1003.1c-1995 (denoted P96), the IEEE Std 1003.2-1992 (POSIX.2) (denoted P92), the IEEE Std 1003.1i-1995 (denoted C99), and C89.

The following conventions are used in columns 2 through 10:

m Indicates that the interface is defined as mandatory.

o Indicates that the interface is part of an Option or Feature Group.

ob Indicates that the interface is Obsolescent, and although mandatory for the implementation, applications are discouraged from its use.

ob o In the XSI column, indicates that the interface is Obsolescent, and is part of an Option or Feature Group. Applications are discouraged from its use.

l In the U03 column, indicates that the interface is part of the Legacy Option Group and need not be available on all implementations.

opt In the POSIX and P01 columns, two or three letter option codes are used as described in XBD, Issue 7 (for the POSIX column) and XBD, Issue 6 (for the P01 column), denoting the option to which the interface belongs.

ob *opt* Same as *opt*, but the interface is also obsolescent.

r In the P96 column, indicates that the interface is part of the POSIX Realtime Extension.

t In the P96 column, indicates that the interface is part of the POSIX Threads Extension.

1 In the C89 column, indicates that the interface is part of the .

. Indicates that the interface is not specified.

The table is intended as a quick reference guide for programmers migrating to or developing applications for the Single UNIX Specification, Version 4. Products that brand to a profile may not provide all of the interfaces listed, depending on which Option or Feature Groups are supported.

7.2 System Interface Table

There are 1191 interfaces listed.

							P96		
Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
FD_CLR( )	m	m	m	m	m	m	.	.	.
FD_ISSET( )	m	m	m	m	m	m	.	.	.
FD_SET( )	m	m	m	m	m	m	.	.	.
FD_ZERO( )	m	m	m	m	m	m	.	.	.
_Exit( )	m	m	m	m	.	.	.	m	.
_exit( )	m	m	m	m	m	m	m	.	.
_longjmp( )	ob	ob xsi	m	xsi	m	m	.	.	.
_setjmp( )	ob	ob xsi	m	xsi	m	m	.	.	.
_tolower( )	ob	ob xsi	m	xsi	m	m	.	.	.
_toupper( )	ob	ob xsi	m	xsi	m	m	.	.	.
a64l( )	m	xsi	m	xsi	m	m	.	.	.
abort( )	m	m	m	m	m	m	m	m	m
abs( )	m	m	m	m	m	m	m	m	m
accept( )	m	m	m	m	m	m	.	.	.
access( )	m	m	m	m	m	m	m	.	.
acos( )	m	m	m	m	m	m	m	m	m
acosf( )	m	m	m	m	.	.	.	m	.
acosh( )	m	m	m	m	m	m	.	m	.
acoshf( )	m	m	m	m	.	.	.	m	.
acoshl( )	m	m	m	m	.	.	.	m	.
acosl( )	m	m	m	m	.	.	.	m	.
aio_cancel( )	m	m	o	aio	o	.	r	.	.
aio_error( )	m	m	o	aio	o	.	r	.	.
aio_fsync( )	m	m	o	aio	o	.	r	.	.
aio_read( )	m	m	o	aio	o	.	r	.	.
aio_return( )	m	m	o	aio	o	.	r	.	.
aio_suspend( )	m	m	o	aio	o	.	r	.	.
aio_write( )	m	m	o	aio	o	.	r	.	.
alarm( )	m	m	m	m	m	m	m	.	.
alphasort( )	m	m	.	.	.	.	.	.	.
asctime( )	ob	ob	m	m	m	m	m	m	m
asctime_r( )	ob	ob	m	tsf	m	.	t	.	.
asin( )	m	m	m	m	m	m	m	m	m
asinf( )	m	m	m	m	.	.	.	m	.
asinh( )	m	m	m	m	m	m	.	m	.
asinhf( )	m	m	m	m	.	.	.	m	.
asinhl( )	m	m	m	m	.	.	.	m	.
asinl( )	m	m	m	m	.	.	.	m	.
assert( )	m	m	m	m	m	m	m	m	m
atan2( )	m	m	m	m	m	m	m	m	m
atan2f( )	m	m	m	m	.	.	.	m	.
atan2l( )	m	m	m	m	.	.	.	m	.
atan( )	m	m	m	m	m	m	m	m	m
atanf( )	m	m	m	m	.	.	.	m	.
atanh( )	m	m	m	m	m	m	.	m	.
atanhf( )	m	m	m	m	.	.	.	m	.
atanhl( )	m	m	m	m	.	.	.	m	.
atanl( )	m	m	m	m	.	.	.	m	.
atexit( )	m	m	m	m	m	m	.	m	m
atof( )	m	m	m	m	m	m	m	m	m

							P96		
Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
atoi( )	m	m	m	m	m	m	m	m	m
atol( )	m	m	m	m	m	m	m	m	m
atoll( )	m	m	m	m	.	.	.	m	.
basename( )	m	xsi	m	xsi	m	m	.	.	.
bind( )	m	m	m	m	m	m	.	.	.
bsearch( )	m	m	m	m	m	m	m	m	m
btowc( )	m	m	m	m	m	.	.	m	1
cabs( )	m	m	m	m	.	.	.	m	.
cabsf( )	m	m	m	m	.	.	.	m	.
cabsl( )	m	m	m	m	.	.	.	m	.
cacos( )	m	m	m	m	.	.	.	m	.
cacosf( )	m	m	m	m	.	.	.	m	.
cacosh( )	m	m	m	m	.	.	.	m	.
cacoshf( )	m	m	m	m	.	.	.	m	.
cacoshl( )	m	m	m	m	.	.	.	m	.
cacosl( )	m	m	m	m	.	.	.	m	.
calloc( )	m	m	m	m	m	m	m	m	m
carg( )	m	m	m	m	.	.	.	m	.
cargf( )	m	m	m	m	.	.	.	m	.
cargl( )	m	m	m	m	.	.	.	m	.
casin( )	m	m	m	m	.	.	.	m	.
casinf( )	m	m	m	m	.	.	.	m	.
casinh( )	m	m	m	m	.	.	.	m	.
casinhf( )	m	m	m	m	.	.	.	m	.
casinhl( )	m	m	m	m	.	.	.	m	.
casinl( )	m	m	m	m	.	.	.	m	.
catan( )	m	m	m	m	.	.	.	m	.
catanf( )	m	m	m	m	.	.	.	m	.
catanh( )	m	m	m	m	.	.	.	m	.
catanhf( )	m	m	m	m	.	.	.	m	.
catanhl( )	m	m	m	m	.	.	.	m	.
catanl( )	m	m	m	m	.	.	.	m	.
catclose( )	m	m	m	xsi	m	m	.	.	.
catgets( )	m	m	m	xsi	m	m	.	.	.
catopen( )	m	m	m	xsi	m	m	.	.	.
cbrt( )	m	m	m	m	m	m	.	m	.
cbrtf( )	m	m	m	m	.	.	.	m	.
cbrtl( )	m	m	m	m	.	.	.	m	.
ccos( )	m	m	m	m	.	.	.	m	.
ccosf( )	m	m	m	m	.	.	.	m	.
ccosh( )	m	m	m	m	.	.	.	m	.
ccoshf( )	m	m	m	m	.	.	.	m	.
ccoshl( )	m	m	m	m	.	.	.	m	.
ccosl( )	m	m	m	m	.	.	.	m	.
ceil( )	m	m	m	m	m	m	m	m	m
ceilf( )	m	m	m	m	.	.	.	m	.
ceill( )	m	m	m	m	.	.	.	m	.
cexp( )	m	m	m	m	.	.	.	m	.
cexpf( )	m	m	m	m	.	.	.	m	.
cexpl( )	m	m	m	m	.	.	.	m	.

							P96		
Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
cfgetispeed( )	m	m	m	m	m	m	m	.	.
cfgetospeed( )	m	m	m	m	m	m	m	.	.
cfsetispeed( )	m	m	m	m	m	m	m	.	.
cfsetospeed( )	m	m	m	m	m	m	m	.	.
chdir( )	m	m	m	m	m	m	m	.	.
chmod( )	m	m	m	m	m	m	m	.	.
chown( )	m	m	m	m	m	m	m	.	.
cimag( )	m	m	m	m	.	.	.	m	.
cimagf( )	m	m	m	m	.	.	.	m	.
cimagl( )	m	m	m	m	.	.	.	m	.
clearerr( )	m	m	m	m	m	m	m	m	m
clock( )	m	m	m	m	m	m	.	m	m
clock_getcpuclockid( )	o	cpt	o	cpt	.	.	.	.	.
clock_getres( )	m	m	o	tmr	o	.	r	.	.
clock_gettime( )	m	m	o	tmr	o	.	r	.	.
clock_nanosleep( )	m	m	o	cs	.	.	.	.	.
clock_settime( )	m	m	o	tmr	o	.	r	.	.
clog( )	m	m	m	m	.	.	.	m	.
clogf( )	m	m	m	m	.	.	.	m	.
clogl( )	m	m	m	m	.	.	.	m	.
close( )	m	m	m	m	m	m	m	.	.
closedir( )	m	m	m	m	m	m	m	.	.
closelog( )	m	xsi	m	xsi	m	m	.	.	.
confstr( )	m	m	m	m	m	m	m	.	.
conj( )	m	m	m	m	.	.	.	m	.
conjf( )	m	m	m	m	.	.	.	m	.
conjl( )	m	m	m	m	.	.	.	m	.
connect( )	m	m	m	m	m	m	.	.	.
copysign( )	m	m	m	m	.	.	.	m	.
copysignf( )	m	m	m	m	.	.	.	m	.
copysignl( )	m	m	m	m	.	.	.	m	.
cos( )	m	m	m	m	m	m	m	m	m
cosf( )	m	m	m	m	.	.	.	m	.
cosh( )	m	m	m	m	m	m	m	m	m
coshf( )	m	m	m	m	.	.	.	m	.
coshl( )	m	m	m	m	.	.	.	m	.
cosl( )	m	m	m	m	.	.	.	m	.
cpow( )	m	m	m	m	.	.	.	m	.
cpowf( )	m	m	m	m	.	.	.	m	.
cpowl( )	m	m	m	m	.	.	.	m	.
cproj( )	m	m	m	m	.	.	.	m	.
cprojf( )	m	m	m	m	.	.	.	m	.
cprojl( )	m	m	m	m	.	.	.	m	.
creal( )	m	m	m	m	.	.	.	m	.
crealf( )	m	m	m	m	.	.	.	m	.
creall( )	m	m	m	m	.	.	.	m	.
creat( )	m	m	m	m	m	m	m	.	.
crypt( )	m	xsi	o	xsi	o	o	.	.	.
csin( )	m	m	m	m	.	.	.	m	.
csinf( )	m	m	m	m	.	.	.	m	.

							P96		
Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
csinh( )	m	m	m	m	.	.	.	m	.
csinhf( )	m	m	m	m	.	.	.	m	.
csinhl( )	m	m	m	m	.	.	.	m	.
csinl( )	m	m	m	m	.	.	.	m	.
csqrt( )	m	m	m	m	.	.	.	m	.
csqrtf( )	m	m	m	m	.	.	.	m	.
csqrtl( )	m	m	m	m	.	.	.	m	.
ctan( )	m	m	m	m	.	.	.	m	.
ctanf( )	m	m	m	m	.	.	.	m	.
ctanh( )	m	m	m	m	.	.	.	m	.
ctanhf( )	m	m	m	m	.	.	.	m	.
ctanhl( )	m	m	m	m	.	.	.	m	.
ctanl( )	m	m	m	m	.	.	.	m	.
ctermid( )	m	m	m	m	m	m	m	.	.
ctime( )	ob	ob	m	m	m	m	m	m	m
ctime_r( )	ob	ob	m	tsf	m	.	t	.	.
daylight	m	xsi	m	xsi	m	m	.	.	.
dbm_clearerr( )	m	xsi	m	xsi	m	m	.	.	.
dbm_close( )	m	xsi	m	xsi	m	m	.	.	.
dbm_delete( )	m	xsi	m	xsi	m	m	.	.	.
dbm_error( )	m	xsi	m	xsi	m	m	.	.	.
dbm_fetch( )	m	xsi	m	xsi	m	m	.	.	.
dbm_firstkey( )	m	xsi	m	xsi	m	m	.	.	.
dbm_nextkey( )	m	xsi	m	xsi	m	m	.	.	.
dbm_open( )	m	xsi	m	xsi	m	m	.	.	.
dbm_store( )	m	xsi	m	xsi	m	m	.	.	.
difftime( )	m	m	m	m	m	m	.	m	m
dirfd( )	m	m	.	.	.	.	.	.	.
dirname( )	m	xsi	m	xsi	m	m	.	.	.
div( )	m	m	m	m	m	m	.	m	m
dlclose( )	m	m	m	xsi	m	.	.	.	.
dlerror( )	m	m	m	xsi	m	.	.	.	.
dlopen( )	m	m	m	xsi	m	.	.	.	.
dlsym( )	m	m	m	xsi	m	.	.	.	.
dprintf( )	m	m	.	.	.	.	.	.	.
drand48( )	m	xsi	m	xsi	m	m	.	.	.
dup2( )	m	m	m	m	m	m	m	.	.
dup( )	m	m	m	m	m	m	m	.	.
duplocale( )	m	m	.	.	.	.	.	.	.
encrypt( )	m	xsi	o	xsi	o	o	.	.	.
endgrent( )	m	xsi	m	xsi	m	m	.	.	.
endhostent( )	m	m	m	m	m	m	.	.	.
endnetent( )	m	m	m	m	m	m	.	.	.
endprotoent( )	m	m	m	m	m	m	.	.	.
endpwent( )	m	xsi	m	xsi	m	m	.	.	.
endservent( )	m	m	m	m	m	m	.	.	.
endutxent( )	m	xsi	m	xsi	m	m	.	.	.
environ	m	m	m	m	m	m	m	.	.
erand48( )	m	xsi	m	xsi	m	m	.	.	.
erf( )	m	m	m	m	m	m	.	m	.

							P96		
Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
erfc( )	m	m	m	m	m	m	.	m	.
erfcf( )	m	m	m	m	.	.	.	m	.
erfcl( )	m	m	m	m	.	.	.	m	.
erff( )	m	m	m	m	.	.	.	m	.
erfl( )	m	m	m	m	.	.	.	m	.
errno	m	m	m	m	m	m	m	m	m
execl( )	m	m	m	m	m	m	m	.	.
execle( )	m	m	m	m	m	m	m	.	.
execlp( )	m	m	m	m	m	m	m	.	.
execv( )	m	m	m	m	m	m	m	.	.
execve( )	m	m	m	m	m	m	m	.	.
execvp( )	m	m	m	m	m	m	m	.	.
exit( )	m	m	m	m	m	m	m	m	m
exp2( )	m	m	m	m	.	.	.	m	.
exp2f( )	m	m	m	m	.	.	.	m	.
exp2l( )	m	m	m	m	.	.	.	m	.
exp( )	m	m	m	m	m	m	m	m	m
expf( )	m	m	m	m	.	.	.	m	.
expl( )	m	m	m	m	.	.	.	m	.
expm1( )	m	m	m	m	m	m	.	m	.
expm1f( )	m	m	m	m	.	.	.	m	.
expm1l( )	m	m	m	m	.	.	.	m	.
fabs( )	m	m	m	m	m	m	m	m	m
fabsf( )	m	m	m	m	.	.	.	m	.
fabsl( )	m	m	m	m	.	.	.	m	.
faccessat( )	m	m	.	.	.	.	.	.	.
fattach( )	ob o	ob xsr	o	xsr	m	m	.	.	.
fchdir( )	m	m	m	xsi	m	m	.	.	.
fchmod( )	m	m	m	m	m	m	.	.	.
fchmodat( )	m	m	.	.	.	.	.	.	.
fchown( )	m	m	m	m	m	m	.	.	.
fchownat( )	m	m	.	.	.	.	.	.	.
fclose( )	m	m	m	m	m	m	m	m	m
fcntl( )	m	m	m	m	m	m	m	.	.
fdatasync( )	o	sio	o	sio	o	.	r	.	.
fdetach( )	ob o	ob xsr	o	xsr	m	m	.	.	.
fdim( )	m	m	m	m	.	.	.	m	.
fdimf( )	m	m	m	m	.	.	.	m	.
fdiml( )	m	m	m	m	.	.	.	m	.
fdopen( )	m	m	m	m	m	m	m	.	.
fdopendir( )	m	m	.	.	.	.	.	.	.
feclearexcept( )	m	m	m	m	.	.	.	m	.
fegetenv( )	m	m	m	m	.	.	.	m	.
fegetexceptflag( )	m	m	m	m	.	.	.	m	.
fegetround( )	m	m	m	m	.	.	.	m	.
feholdexcept( )	m	m	m	m	.	.	.	m	.
feof( )	m	m	m	m	m	m	m	m	m
feraiseexcept( )	m	m	m	m	.	.	.	m	.
ferror( )	m	m	m	m	m	m	m	m	m
fesetenv( )	m	m	m	m	.	.	.	m	.

							P96		
Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
fesetexceptflag( )	m	m	m	m	.	.	.	m	.
fesetround( )	m	m	m	m	.	.	.	m	.
fetestexcept( )	m	m	m	m	.	.	.	m	.
feupdateenv( )	m	m	m	m	.	.	.	m	.
fexecve( )	m	m	.	.	.	.	.	.	.
fflush( )	m	m	m	m	m	m	m	m	m
ffs( )	m	xsi	m	xsi	m	m	.	.	.
fgetc( )	m	m	m	m	m	m	m	m	m
fgetpos( )	m	m	m	m	m	m	.	m	m
fgets( )	m	m	m	m	m	m	m	m	m
fgetwc( )	m	m	m	m	m	m	.	m	1
fgetws( )	m	m	m	m	m	m	.	m	1
fileno( )	m	m	m	m	m	m	m	.	.
flockfile( )	m	m	m	tsf	m	.	t	.	.
floor( )	m	m	m	m	m	m	m	m	m
floorf( )	m	m	m	m	.	.	.	m	.
floorl( )	m	m	m	m	.	.	.	m	.
fma( )	m	m	m	m	.	.	.	m	.
fmaf( )	m	m	m	m	.	.	.	m	.
fmal( )	m	m	m	m	.	.	.	m	.
fmax( )	m	m	m	m	.	.	.	m	.
fmaxf( )	m	m	m	m	.	.	.	m	.
fmaxl( )	m	m	m	m	.	.	.	m	.
fmemopen( )	m	m	.	.	.	.	.	.	.
fmin( )	m	m	m	m	.	.	.	m	.
fminf( )	m	m	m	m	.	.	.	m	.
fminl( )	m	m	m	m	.	.	.	m	.
fmod( )	m	m	m	m	m	m	m	m	m
fmodf( )	m	m	m	m	.	.	.	m	.
fmodl( )	m	m	m	m	.	.	.	m	.
fmtmsg( )	m	xsi	m	xsi	m	m	.	.	.
fnmatch( )	m	m	m	m	m	m	m	.	.
fopen( )	m	m	m	m	m	m	m	m	m
fork( )	m	m	m	m	m	m	m	.	.
fpathconf( )	m	m	m	m	m	m	m	.	.
fpclassify( )	m	m	m	m	.	.	.	m	.
fprintf( )	m	m	m	m	m	m	m	m	m
fputc( )	m	m	m	m	m	m	m	m	m
fputs( )	m	m	m	m	m	m	m	m	m
fputwc( )	m	m	m	m	m	m	.	m	1
fputws( )	m	m	m	m	m	m	.	m	1
fread( )	m	m	m	m	m	m	m	m	m
free( )	m	m	m	m	m	m	m	m	m
freeaddrinfo( )	m	m	m	m	.	.	.	.	.
freelocale( )	m	m	.	.	.	.	.	.	.
freopen( )	m	m	m	m	m	m	m	m	m
frexp( )	m	m	m	m	m	m	m	m	m
frexpf( )	m	m	m	m	.	.	.	m	.
frexpl( )	m	m	m	m	.	.	.	m	.
fscanf( )	m	m	m	m	m	m	m	m	m

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
fseek( )	m	m	m	m	m	m	m	m	m
fseeko( )	m	m	m	m	m	.	.	.	.
fsetpos( )	m	m	m	m	m	m	.	m	m
fstat( )	m	m	m	m	m	m	m	.	.
fstatat( )	m	m	.	.	.	.	.	.	.
fstatvfs( )	m	m	m	xsi	m	m	.	.	.
fsync( )	m	fsc	m	fsc	m	m	.	.	.
ftell( )	m	m	m	m	m	m	m	m	m
ftello( )	m	m	m	m	m	.	.	.	.
ftok( )	m	xsi	m	xsi	m	m	.	.	.
ftruncate( )	m	m	m	m	m	m	.	.	.
ftrylockfile( )	m	m	m	tsf	m	.	t	.	.
ftw( )	ob	ob xsi	m	xsi	m	m	.	.	.
funlockfile( )	m	m	m	tsf	m	.	t	.	.
futimens( )	m	m	.	.	.	.	.	.	.
fwide( )	m	m	m	m	m	.	.	m	1
fwprintf( )	m	m	m	m	m	.	.	m	1
fwrite( )	m	m	m	m	m	m	m	m	m
fwscanf( )	m	m	m	m	m	.	.	m	1
gai_strerror( )	m	m	m	m	.	.	.	.	.
getaddrinfo( )	m	m	m	m	.	.	.	.	.
getc( )	m	m	m	m	m	m	m	m	m
getc_unlocked( )	m	m	m	tsf	m	.	t	.	.
getchar( )	m	m	m	m	m	m	m	m	m
getchar_unlocked( )	m	m	m	tsf	m	.	t	.	.
getcwd( )	m	m	m	m	m	m	m	.	.
getdate( )	m	xsi	m	xsi	m	m	.	.	.
getdate_err	m	xsi	m	xsi	m	m	.	.	.
getdelim( )	m	m	.	.	.	.	.	.	.
getegid( )	m	m	m	m	m	m	m	.	.
getenv( )	m	m	m	m	m	m	m	m	m
geteuid( )	m	m	m	m	m	m	m	.	.
getgid( )	m	m	m	m	m	m	m	.	.
getgrent( )	m	xsi	m	xsi	m	m	.	.	.
getgrgid( )	m	m	m	m	m	m	m	.	.
getgrgid_r( )	m	m	m	tsf	m	.	t	.	.
getgrnam( )	m	m	m	m	m	m	m	.	.
getgrnam_r( )	m	m	m	tsf	m	.	t	.	.
getgroups( )	m	m	m	m	m	m	m	.	.
gethostent( )	m	m	m	m	m	m	.	.	.
gethostid( )	m	xsi	m	xsi	m	m	.	.	.
gethostname( )	m	m	m	m	m	m	.	.	.
getitimer( )	ob	ob xsi	m	xsi	m	m	.	.	.
getline( )	m	m	.	.	.	.	.	.	.
getlogin( )	m	m	m	m	m	m	m	.	.
getlogin_r( )	m	m	m	tsf	m	.	t	.	.
getmsg( )	ob o	ob xsr	o	xsr	m	m	.	.	.
getnameinfo( )	m	m	m	m	.	.	.	.	.
getnetbyaddr( )	m	m	m	m	m	m	.	.	.
getnetbyname( )	m	m	m	m	m	m	.	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
getnetent( )	m	m	m	m	m	m	.	.	.
getopt( )	m	m	m	m	m	m	m	.	.
getpeername( )	m	m	m	m	m	m	.	.	.
getpgid( )	m	m	m	xsi	m	m	.	.	.
getpgrp( )	m	m	m	m	m	m	m	.	.
getpid( )	m	m	m	m	m	m	m	.	.
getpmsg( )	ob o	ob xsr	o	xsr	m	m	.	.	.
getppid( )	m	m	m	m	m	m	m	.	.
getpriority( )	m	xsi	m	xsi	m	m	.	.	.
getprotobyname( )	m	m	m	m	m	m	.	.	.
getprotobynumber( )	m	m	m	m	m	m	.	.	.
getprotoent( )	m	m	m	m	m	m	.	.	.
getpwent( )	m	xsi	m	xsi	m	m	.	.	.
getpwnam( )	m	m	m	m	m	m	m	.	.
getpwnam_r( )	m	m	m	tsf	m	.	t	.	.
getpwuid( )	m	m	m	m	m	m	m	.	.
getpwuid_r( )	m	m	m	tsf	m	.	t	.	.
getrlimit( )	m	xsi	m	xsi	m	m	.	.	.
getrusage( )	m	xsi	m	xsi	m	m	.	.	.
gets( )	ob	ob	m	m	m	m	m	m	m
getservbyname( )	m	m	m	m	m	m	.	.	.
getservbyport( )	m	m	m	m	m	m	.	.	.
getservent( )	m	m	m	m	m	m	.	.	.
getsid( )	m	m	m	xsi	m	m	.	.	.
getsockname( )	m	m	m	m	m	m	.	.	.
getsockopt( )	m	m	m	m	m	m	.	.	.
getsubopt( )	m	m	m	xsi	m	m	.	.	.
gettimeofday( )	ob	ob xsi	m	xsi	m	m	.	.	.
getuid( )	m	m	m	m	m	m	m	.	.
getutxent( )	m	xsi	m	xsi	m	m	.	.	.
getutxid( )	m	xsi	m	xsi	m	m	.	.	.
getutxline( )	m	xsi	m	xsi	m	m	.	.	.
getwc( )	m	m	m	m	m	m	.	m	1
getwchar( )	m	m	m	m	m	m	.	m	1
glob( )	m	m	m	m	m	o	m	.	.
globfree( )	m	m	m	m	m	o	m	.	.
gmtime( )	m	m	m	m	m	m	m	m	m
gmtime_r( )	m	m	m	tsf	m	.	t	.	.
grantpt( )	m	xsi	m	xsi	m	m	.	.	.
hcreate( )	m	xsi	m	xsi	m	m	.	.	.
hdestroy( )	m	xsi	m	xsi	m	m	.	.	.
hsearch( )	m	xsi	m	xsi	m	m	.	.	.
htonl( )	m	m	m	m	m	m	.	.	.
htons( )	m	m	m	m	m	m	.	.	.
hypot( )	m	m	m	m	m	m	.	m	.
hypotf( )	m	m	m	m	.	.	.	m	.
hypotl( )	m	m	m	m	.	.	.	m	.
iconv( )	m	m	m	xsi	m	m	.	.	.
iconv_close( )	m	m	m	xsi	m	m	.	.	.
iconv_open( )	m	m	m	xsi	m	m	.	.	.

Interface	XSI	POSIX	U03	P01	U98	U95	P96 P92	C99	C89
if_freenameindex( )	m	m	m	m	.	.	.	.	.
if_indextoname( )	m	m	m	m	.	.	.	.	.
if_nameindex( )	m	m	m	m	.	.	.	.	.
if_nametoindex( )	m	m	m	m	.	.	.	.	.
ilogb( )	m	m	m	m	m	m	.	m	.
ilogbf( )	m	m	m	m	.	.	.	m	.
ilogbl( )	m	m	m	m	.	.	.	m	.
imaxabs( )	m	m	m	m	.	.	.	m	.
imaxdiv( )	m	m	m	m	.	.	.	m	.
inet_addr( )	m	m	m	m	m	m	.	.	.
inet_ntoa( )	m	m	m	m	m	m	.	.	.
inet_ntop( )	m	m	m	m	.	.	.	.	.
inet_pton( )	m	m	m	m	.	.	.	.	.
initstate( )	m	xsi	m	xsi	m	m	.	.	.
insque( )	m	xsi	m	xsi	m	m	.	.	.
ioctl( )	ob o	ob xsr	o	xsr	m	m	.	.	.
isalnum( )	m	m	m	m	m	m	m	m	m
isalnum_l( )	m	m	.	.	.	.	.	.	.
isalpha( )	m	m	m	m	m	m	m	m	m
isalpha_l( )	m	m	.	.	.	.	.	.	.
isascii( )	ob	ob xsi	m	xsi	m	m	.	.	.
isastream( )	ob o	ob xsr	o	xsr	m	m	.	.	.
isatty( )	m	m	m	m	m	m	m	.	.
isblank( )	m	m	m	m	.	.	.	m	.
isblank_l( )	m	m	.	.	.	.	.	.	.
iscntrl( )	m	m	m	m	m	m	m	m	m
iscntrl_l( )	m	m	.	.	.	.	.	.	.
isdigit( )	m	m	m	m	m	m	m	m	m
isdigit_l( )	m	m	.	.	.	.	.	.	.
isfinite( )	m	m	m	m	.	.	.	m	.
isgraph( )	m	m	m	m	m	m	m	m	m
isgraph_l( )	m	m	.	.	.	.	.	.	.
isgreater( )	m	m	m	m	.	.	.	m	.
isgreaterequal( )	m	m	m	m	.	.	.	m	.
isinf( )	m	m	m	m	.	.	.	m	.
isless( )	m	m	m	m	.	.	.	m	.
islessequal( )	m	m	m	m	.	.	.	m	.
islessgreater( )	m	m	m	m	.	.	.	m	.
islower( )	m	m	m	m	m	m	m	m	m
islower_l( )	m	m	.	.	.	.	.	.	.
isnan( )	m	m	m	m	m	m	.	.	.
isnormal( )	m	m	m	m	.	.	.	m	.
isprint( )	m	m	m	m	m	m	m	m	m
isprint_l( )	m	m	.	.	.	.	.	.	.
ispunct( )	m	m	m	m	m	m	m	m	m
ispunct_l( )	m	m	.	.	.	.	.	.	.
isspace( )	m	m	m	m	m	m	m	m	m
isspace_l( )	m	m	.	.	.	.	.	.	.
isunordered( )	m	m	m	m	.	.	.	m	.
isupper( )	m	m	m	m	m	m	m	m	m

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
isupper_l( )	m	m	.	.	.	.	.	.	.
iswalnum( )	m	m	m	m	m	m	.	m	1
iswalnum_l( )	m	m	.	.	.	.	.	.	.
iswalpha( )	m	m	m	m	m	m	.	m	1
iswalpha_l( )	m	m	.	.	.	.	.	.	.
iswblank( )	m	m	m	m	.	.	.	m	.
iswblank_l( )	m	m	.	.	.	.	.	.	.
iswcntrl( )	m	m	m	m	m	m	.	m	1
iswcntrl_l( )	m	m	.	.	.	.	.	.	.
iswctype( )	m	m	m	m	m	m	.	m	1
iswctype_l( )	m	m	.	.	.	.	.	.	.
iswdigit( )	m	m	m	m	m	m	.	m	1
iswdigit_l( )	m	m	.	.	.	.	.	.	.
iswgraph( )	m	m	m	m	m	m	.	m	1
iswgraph_l( )	m	m	.	.	.	.	.	.	.
iswlower( )	m	m	m	m	m	m	.	m	1
iswlower_l( )	m	m	.	.	.	.	.	.	.
iswprint( )	m	m	m	m	m	m	.	m	1
iswprint_l( )	m	m	.	.	.	.	.	.	.
iswpunct( )	m	m	m	m	m	m	.	m	1
iswpunct_l( )	m	m	.	.	.	.	.	.	.
iswspace( )	m	m	m	m	m	m	.	m	1
iswspace_l( )	m	m	.	.	.	.	.	.	.
iswupper( )	m	m	m	m	m	m	.	m	1
iswupper_l( )	m	m	.	.	.	.	.	.	.
iswxdigit( )	m	m	m	m	m	m	.	m	1
iswxdigit_l( )	m	m	.	.	.	.	.	.	.
isxdigit( )	m	m	m	m	m	m	m	m	m
isxdigit_l( )	m	m	.	.	.	.	.	.	.
j0( )	m	xsi	m	xsi	m	m	.	.	.
j1( )	m	xsi	m	xsi	m	m	.	.	.
jn( )	m	xsi	m	xsi	m	m	.	.	.
jrand48( )	m	xsi	m	xsi	m	m	.	.	.
kill( )	m	m	m	m	m	m	m	.	.
killpg( )	m	xsi	m	xsi	m	m	.	.	.
l64a( )	m	xsi	m	xsi	m	m	.	.	.
labs( )	m	m	m	m	m	m	.	m	m
lchown( )	m	m	m	xsi	m	m	.	.	.
lcong48( )	m	xsi	m	xsi	m	m	.	.	.
ldexp( )	m	m	m	m	m	m	m	m	m
ldexpf( )	m	m	m	m	.	.	.	m	.
ldexpl( )	m	m	m	m	.	.	.	m	.
ldiv( )	m	m	m	m	m	m	.	m	m
lfind( )	m	xsi	m	xsi	m	m	.	.	.
lgamma( )	m	m	m	m	m	m	.	m	.
lgammaf( )	m	m	m	m	.	.	.	m	.
lgammal( )	m	m	m	m	.	.	.	m	.
link( )	m	m	m	m	m	m	m	.	.
linkat( )	m	m	.	.	.	.	.	.	.
lio_listio( )	m	m	o	aio	o	.	r	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
listen( )	m	m	m	m	m	m	.	.	.
llabs( )	m	m	m	m	.	.	.	m	.
lldiv( )	m	m	m	m	.	.	.	m	.
llrint( )	m	m	m	m	.	.	.	m	.
llrintf( )	m	m	m	m	.	.	.	m	.
llrintl( )	m	m	m	m	.	.	.	m	.
llround( )	m	m	m	m	.	.	.	m	.
llroundf( )	m	m	m	m	.	.	.	m	.
llroundl( )	m	m	m	m	.	.	.	m	.
localeconv( )	m	m	m	m	m	m	.	m	m
localtime( )	m	m	m	m	m	m	m	m	m
localtime_r( )	m	m	m	tsf	m	.	t	.	.
lockf( )	m	xsi	m	xsi	m	m	.	.	.
log10( )	m	m	m	m	m	m	m	m	m
log10f( )	m	m	m	m	.	.	.	m	.
log10l( )	m	m	m	m	.	.	.	m	.
log1p( )	m	m	m	m	m	m	.	m	.
log1pf( )	m	m	m	m	.	.	.	m	.
log1pl( )	m	m	m	m	.	.	.	m	.
log2( )	m	m	m	m	.	.	.	m	.
log2f( )	m	m	m	m	.	.	.	m	.
log2l( )	m	m	m	m	.	.	.	m	.
log( )	m	m	m	m	m	m	m	m	m
logb( )	m	m	m	m	m	m	.	m	.
logbf( )	m	m	m	m	.	.	.	m	.
logbl( )	m	m	m	m	.	.	.	m	.
logf( )	m	m	m	m	.	.	.	m	.
logl( )	m	m	m	m	.	.	.	m	.
longjmp( )	m	m	m	m	m	m	m	m	m
lrand48( )	m	xsi	m	xsi	m	m	.	.	.
lrint( )	m	m	m	m	.	.	.	m	.
lrintf( )	m	m	m	m	.	.	.	m	.
lrintl( )	m	m	m	m	.	.	.	m	.
lround( )	m	m	m	m	.	.	.	m	.
lroundf( )	m	m	m	m	.	.	.	m	.
lroundl( )	m	m	m	m	.	.	.	m	.
lsearch( )	m	xsi	m	xsi	m	m	.	.	.
lseek( )	m	m	m	m	m	m	m	.	.
lstat( )	m	m	m	m	m	m	.	.	.
malloc( )	m	m	m	m	m	m	m	m	m
mblen( )	m	m	m	m	m	m	.	m	m
mbrlen( )	m	m	m	m	m	.	.	m	1
mbrtowc( )	m	m	m	m	m	.	.	m	1
mbsinit( )	m	m	m	m	m	.	.	m	1
mbsnrtowcs( )	m	m	.	.	.	.	.	.	.
mbsrtowcs( )	m	m	m	m	m	.	.	m	1
mbstowcs( )	m	m	m	m	m	m	.	m	m
mbtowc( )	m	m	m	m	m	m	.	m	m
memccpy( )	m	xsi	m	xsi	m	m	.	.	.
memchr( )	m	m	m	m	m	m	.	m	m

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
memcmp( )	m	m	m	m	m	m	.	m	m
memcpy( )	m	m	m	m	m	m	.	m	m
memmove( )	m	m	m	m	m	m	.	m	m
memset( )	m	m	m	m	m	m	.	m	m
mkdir( )	m	m	m	m	m	m	m	.	.
mkdirat( )	m	m	.	.	.	.	.	.	.
mkdtemp( )	m	m	.	.	.	.	.	.	.
mkfifo( )	m	m	m	m	m	m	m	.	.
mkfifoat( )	m	m	.	.	.	.	.	.	.
mknod( )	m	xsi	m	xsi	m	m	.	.	.
mknodat( )	m	xsi	.	.	.	.	.	.	.
mkstemp( )	m	m	m	xsi	m	m	.	.	.
mktime( )	m	m	m	m	m	m	m	m	m
mlock( )	o	mlr	o	mr	o	.	r	.	.
mlockall( )	o	ml	o	ml	o	.	r	.	.
mmap( )	m	m	m	mf | shm | tym	m	m	.	.	.
modf( )	m	m	m	m	m	m	m	m	m
modff( )	m	m	m	m	.	.	.	m	.
modfl( )	m	m	m	m	.	.	.	m	.
mprotect( )	m	m	m	mpr	m	m	.	.	.
mq_close( )	o	msg	o	msg	o	.	r	.	.
mq_getattr( )	o	msg	o	msg	o	.	r	.	.
mq_notify( )	o	msg	o	msg	o	.	r	.	.
mq_open( )	o	msg	o	msg	o	.	r	.	.
mq_receive( )	o	msg	o	msg	o	.	r	.	.
mq_send( )	o	msg	o	msg	o	.	r	.	.
mq_setattr( )	o	msg	o	msg	o	.	r	.	.
mq_timedreceive( )	o	msg	o	msg	.	.	.	.	.
mq_timedsend( )	o	msg	o	msg	.	.	.	.	.
mq_unlink( )	o	msg	o	msg	o	.	r	.	.
mrand48( )	m	xsi	m	xsi	m	m	.	.	.
msgctl( )	m	xsi	m	xsi	m	m	.	.	.
msgget( )	m	xsi	m	xsi	m	m	.	.	.
msgrcv( )	m	xsi	m	xsi	m	m	.	.	.
msgsnd( )	m	xsi	m	xsi	m	m	.	.	.
msync( )	m	xsi | sio	m	mf sio	m	m	.	.	.
munlock( )	o	mlr	o	mr	o	.	r	.	.
munlockall( )	o	ml	o	ml	o	.	r	.	.
munmap( )	m	m	m	mf | shm | tym	m	m	.	.	.
nan( )	m	m	m	m	.	.	.	m	.
nanf( )	m	m	m	m	.	.	.	m	.
nanl( )	m	m	m	m	.	.	.	m	.
nanosleep( )	m	m	o	tmr	o	.	r	.	.
nearbyint( )	m	m	m	m	.	.	.	m	.
nearbyintf( )	m	m	m	m	.	.	.	m	.
nearbyintl( )	m	m	m	m	.	.	.	m	.
newlocale( )	m	m	.	.	.	.	.	.	.
nextafter( )	m	m	m	m	m	m	.	m	.
nextafterf( )	m	m	m	m	.	.	.	m	.
nextafterl( )	m	m	m	m	.	.	.	m	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
nexttoward( )	m	m	m	m	.	.	.	m	.
nexttowardf( )	m	m	m	m	.	.	.	m	.
nexttowardl( )	m	m	m	m	.	.	.	m	.
nftw( )	m	xsi	m	xsi	m	m	.	.	.
nice( )	m	xsi	m	xsi	m	m	.	.	.
nl_langinfo( )	m	m	m	xsi	m	m	.	.	.
nl_langinfo_l( )	m	m	.	.	.	.	.	.	.
nrand48( )	m	xsi	m	xsi	m	m	.	.	.
ntohl( )	m	m	m	m	m	m	.	.	.
ntohs( )	m	m	m	m	m	m	.	.	.
open( )	m	m	m	m	m	m	m	.	.
open_memstream( )	m	m	.	.	.	.	.	.	.
open_wmemstream( )	m	m	.	.	.	.	.	.	.
openat( )	m	m	.	.	.	.	.	.	.
opendir( )	m	m	m	m	m	m	m	.	.
openlog( )	m	xsi	m	xsi	m	m	.	.	.
optarg	m	m	m	m	m	m	m	.	.
opterr	m	m	m	m	m	m	m	.	.
optind	m	m	m	m	m	m	m	.	.
optopt	m	m	m	m	m	m	m	.	.
pathconf( )	m	m	m	m	m	m	m	.	.
pause( )	m	m	m	m	m	m	m	.	.
pclose( )	m	m	m	m	m	m	m	.	.
perror( )	m	m	m	m	m	m	m	m	m
pipe( )	m	m	m	m	m	m	m	.	.
poll( )	m	m	m	xsi	m	m	.	.	.
popen( )	m	m	m	m	m	m	m	.	.
posix_fadvise( )	o	adv	o	adv	.	.	.	.	.
posix_fallocate( )	o	adv	o	adv	.	.	.	.	.
posix_madvise( )	o	adv	o	adv	.	.	.	.	.
posix_mem_offset( )	o	tym	o	tym	.	.	.	.	.
posix_memalign( )	o	adv	o	adv	.	.	.	.	.
posix_openpt( )	m	xsi	m	xsi	.	.	.	.	.
posix_spawn( )	o	spn	o	spn	.	.	.	.	.
posix_spawn_file_actions_addclose( )	o	spn	o	spn	.	.	.	.	.
posix_spawn_file_actions_adddup2( )	o	spn	o	spn	.	.	.	.	.
posix_spawn_file_actions_addopen( )	o	spn	o	spn	.	.	.	.	.
posix_spawn_file_actions_destroy( )	o	spn	o	spn	.	.	.	.	.
posix_spawn_file_actions_init( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_destroy( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_getflags( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_getpgroup( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_getschedparam( )	o	spn ps	o	spn ps	.	.	.	.	.
posix_spawnattr_getschedpolicy( )	o	spn ps	o	spn ps	.	.	.	.	.
posix_spawnattr_getsigdefault( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_getsigmask( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_init( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_setflags( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_setpgroup( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_setschedparam( )	o	spn ps	o	spn ps	.	.	.	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
posix_spawnattr_setschedpolicy( )	o	spn ps	o	spn ps	.	.	.	.	.
posix_spawnattr_setsigdefault( )	o	spn	o	spn	.	.	.	.	.
posix_spawnattr_setsigmask( )	o	spn	o	spn	.	.	.	.	.
posix_spawnp( )	o	spn	o	spn	.	.	.	.	.
posix_trace_attr_destroy( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_getclockres( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_getcreatetime( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_getgenversion( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_getinherited( )	o	tri	o	trc tri	.	.	.	.	.
posix_trace_attr_getlogfullpolicy( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_attr_getlogsize( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_attr_getmaxdatasize( )	m	m	o	trc	.	.	.	.	.
posix_trace_attr_getmaxsystemeventsize( )	m	m	o	trc	.	.	.	.	.
posix_trace_attr_getmaxusereventsize( )	m	m	o	trc	.	.	.	.	.
posix_trace_attr_getname( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_getstreamfullpolicy( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_getstreamsize( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_init( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_setinherited( )	o	tri	o	trc tri	.	.	.	.	.
posix_trace_attr_setlogfullpolicy( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_attr_setlogsize( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_attr_setmaxdatasize( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_setname( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_setstreamfullpolicy( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_attr_setstreamsize( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_clear( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_close( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_create( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_create_withlog( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_event( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_eventid_equal( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_eventid_get_name( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_eventid_open( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_eventset_add( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_eventset_del( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_eventset_empty( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_eventset_fill( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_eventset_ismember( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_eventtypelist_getnext_id( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_eventtypelist_rewind( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_flush( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_get_attr( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_get_filter( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_get_status( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_getnext_event( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_open( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_rewind( )	o	trl	o	trc trl	.	.	.	.	.
posix_trace_set_filter( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_shutdown( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_start( )	ob o	ob trc	o	trc	.	.	.	.	.

Interface	XSI	POSIX	U03	P01	U98	U95	P96 P92	C99	C89
posix_trace_stop( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_trace_timedgetnext_event( )	ob o	ob trc	o	trc tmo	.	.	.	.	.
posix_trace_trid_eventid_open( )	o	tef	o	trc tef	.	.	.	.	.
posix_trace_trygetnext_event( )	ob o	ob trc	o	trc	.	.	.	.	.
posix_typed_mem_get_info( )	o	tym	o	tym	.	.	.	.	.
posix_typed_mem_open( )	o	tym	o	tym	.	.	.	.	.
pow( )	m	m	m	m	m	m	m	m	m
powf( )	m	m	m	m	.	.	.	m	.
powl( )	m	m	m	m	.	.	.	m	.
pread( )	m	m	m	xsi	m	.	.	.	.
printf( )	m	m	m	m	m	m	m	m	m
pselect( )	m	m	m	m	.	.	.	.	.
psiginfo( )	m	m	.	.	.	.	.	.	.
psignal( )	m	m	.	.	.	.	.	.	.
pthread_atfork( )	m	m	m	thr	m	.	t	.	.
pthread_attr_destroy( )	m	m	m	thr	m	.	t	.	.
pthread_attr_getdetachstate( )	m	m	m	thr	m	.	t	.	.
pthread_attr_getguardsize( )	m	m	m	xsi	m	.	.	.	.
pthread_attr_getinheritsched( )	o	tps	o	thr tps	o	.	t	.	.
pthread_attr_getschedparam( )	m	m	m	thr	m	.	t	.	.
pthread_attr_getschedpolicy( )	o	tps	o	thr tps	o	.	t	.	.
pthread_attr_getscope( )	o	tps	o	thr tps	o	.	t	.	.
pthread_attr_getstack( )	m	tsa tss	m	thr tsa tss	.	.	.	.	.
pthread_attr_getstacksize( )	m	tss	m	thr tss	m	.	t	.	.
pthread_attr_init( )	m	m	m	thr	m	.	t	.	.
pthread_attr_setdetachstate( )	m	m	m	thr	m	.	t	.	.
pthread_attr_setguardsize( )	m	m	m	xsi	m	.	.	.	.
pthread_attr_setinheritsched( )	o	tps	o	thr tps	o	.	t	.	.
pthread_attr_setschedparam( )	m	m	m	thr	m	.	t	.	.
pthread_attr_setschedpolicy( )	o	tps	o	thr tps	o	.	t	.	.
pthread_attr_setscope( )	o	tps	o	thr tps	o	.	t	.	.
pthread_attr_setstack( )	m	tsa tss	m	thr tsa tss	.	.	.	.	.
pthread_attr_setstacksize( )	m	tss	m	thr tss	m	.	t	.	.
pthread_barrier_destroy( )	m	m	o	thr bar	.	.	.	.	.
pthread_barrier_init( )	m	m	o	thr bar	.	.	.	.	.
pthread_barrier_wait( )	m	m	o	thr bar	.	.	.	.	.
pthread_barrierattr_destroy( )	m	m	o	thr bar	.	.	.	.	.
pthread_barrierattr_getpshared( )	m	tsh	o	thr bar tsh	.	.	.	.	.
pthread_barrierattr_init( )	m	m	o	thr bar	.	.	.	.	.
pthread_barrierattr_setpshared( )	m	tsh	o	thr bar tsh	.	.	.	.	.
pthread_cancel( )	m	m	m	thr	m	.	t	.	.
pthread_cleanup_pop( )	m	m	m	thr	m	.	t	.	.
pthread_cleanup_push( )	m	m	m	thr	m	.	t	.	.
pthread_cond_broadcast( )	m	m	m	thr	m	.	t	.	.
pthread_cond_destroy( )	m	m	m	thr	m	.	t	.	.
pthread_cond_init( )	m	m	m	thr	m	.	t	.	.
pthread_cond_signal( )	m	m	m	thr	m	.	t	.	.
pthread_cond_timedwait( )	m	m	m	thr	m	.	t	.	.
pthread_cond_wait( )	m	m	m	thr	m	.	t	.	.
pthread_condattr_destroy( )	m	m	m	thr	m	.	t	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
pthread_condattr_getclock( )	m	m	o	thr cs	.	.	.	.	.
pthread_condattr_getpshared( )	m	tsh	m	thr tsh	m	.	t	.	.
pthread_condattr_init( )	m	m	m	thr	m	.	t	.	.
pthread_condattr_setclock( )	m	m	o	thr cs	.	.	.	.	.
pthread_condattr_setpshared( )	m	tsh	m	thr tsh	m	.	t	.	.
pthread_create( )	m	m	m	thr	m	.	t	.	.
pthread_detach( )	m	m	m	thr	m	.	t	.	.
pthread_equal( )	m	m	m	thr	m	.	t	.	.
pthread_exit( )	m	m	m	thr	m	.	t	.	.
pthread_getconcurrency( )	ob	ob xsi	m	xsi	m	.	.	.	.
pthread_getcpuclockid( )	o	tct	o	thr tct	.	.	.	.	.
pthread_getschedparam( )	o	tps	o	thr tps	o	.	t	.	.
pthread_getspecific( )	m	m	m	thr	m	.	t	.	.
pthread_join( )	m	m	m	thr	m	.	t	.	.
pthread_key_create( )	m	m	m	thr	m	.	t	.	.
pthread_key_delete( )	m	m	m	thr	m	.	t	.	.
pthread_kill( )	m	m	m	thr	m	.	t	.	.
pthread_mutex_consistent( )	m	m	.	.	.	.	.	.	.
pthread_mutex_destroy( )	m	m	m	thr	m	.	t	.	.
pthread_mutex_getprioceiling( )	o	rpp|tpp	o	thr tpp	o	.	t	.	.
pthread_mutex_init( )	m	m	m	thr	m	.	t	.	.
pthread_mutex_lock( )	m	m	m	thr	m	.	t	.	.
pthread_mutex_setprioceiling( )	o	rpp|tpp	o	thr tpp	o	.	t	.	.
pthread_mutex_timedlock( )	m	m	o	thr tmo	.	.	.	.	.
pthread_mutex_trylock( )	m	m	m	thr	m	.	t	.	.
pthread_mutex_unlock( )	m	m	m	thr	m	.	t	.	.
pthread_mutexattr_destroy( )	m	m	m	thr	m	.	t	.	.
pthread_mutexattr_getprioceiling( )	o	rpp|tpp	o	thr tpp	o	.	t	.	.
pthread_mutexattr_getprotocol( )	o	mc1	o	thr tpp|tpi	o	.	t	.	.
pthread_mutexattr_getpshared( )	m	tsh	m	thr tsh	m	.	t	.	.
pthread_mutexattr_getrobust( )	m	m	.	.	.	.	.	.	.
pthread_mutexattr_gettype( )	m	m	m	xsi	m	.	.	.	.
pthread_mutexattr_init( )	m	m	m	thr	m	.	t	.	.
pthread_mutexattr_setprioceiling( )	o	rpp|tpp	o	thr tpp	o	.	t	.	.
pthread_mutexattr_setprotocol( )	o	mc1	o	thr tpp|tpi	o	.	t	.	.
pthread_mutexattr_setpshared( )	m	tsh	m	thr tsh	m	.	t	.	.
pthread_mutexattr_setrobust( )	m	m	.	.	.	.	.	.	.
pthread_mutexattr_settype( )	m	m	m	xsi	m	.	.	.	.
pthread_once( )	m	m	m	thr	m	.	t	.	.
pthread_rwlock_destroy( )	m	m	m	thr	m	.	.	.	.
pthread_rwlock_init( )	m	m	m	thr	m	.	.	.	.
pthread_rwlock_rdlock( )	m	m	m	thr	m	.	.	.	.
pthread_rwlock_timedrdlock( )	m	m	o	thr tmo	.	.	.	.	.
pthread_rwlock_timedwrlock( )	m	m	o	thr tmo	.	.	.	.	.
pthread_rwlock_tryrdlock( )	m	m	m	thr	m	.	.	.	.
pthread_rwlock_trywrlock( )	m	m	m	thr	m	.	.	.	.
pthread_rwlock_unlock( )	m	m	m	thr	m	.	.	.	.
pthread_rwlock_wrlock( )	m	m	m	thr	m	.	.	.	.
pthread_rwlockattr_destroy( )	m	m	m	thr	m	.	.	.	.
pthread_rwlockattr_getpshared( )	m	tsh	m	thr tsh	m	.	.	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
pthread_rwlockattr_init( )	m	m	m	thr	m	.	.	.	.
pthread_rwlockattr_setpshared( )	m	tsh	m	thr tsh	m	.	.	.	.
pthread_self( )	m	m	m	thr	m	.	t	.	.
pthread_setcancelstate( )	m	m	m	thr	m	.	t	.	.
pthread_setcanceltype( )	m	m	m	thr	m	.	t	.	.
pthread_setconcurrency( )	ob	ob xsi	m	xsi	m	.	.	.	.
pthread_setschedparam( )	o	tps	o	thr tps	o	.	t	.	.
pthread_setschedprio( )	o	tps	o	thr tps	.	.	.	.	.
pthread_setspecific( )	m	m	m	thr	m	.	t	.	.
pthread_sigmask( )	m	m	m	thr	m	.	t	.	.
pthread_spin_destroy( )	m	m	o	thr spi	.	.	.	.	.
pthread_spin_init( )	m	m	o	thr spi	.	.	.	.	.
pthread_spin_lock( )	m	m	o	thr spi	.	.	.	.	.
pthread_spin_trylock( )	m	m	o	thr spi	.	.	.	.	.
pthread_spin_unlock( )	m	m	o	thr spi	.	.	.	.	.
pthread_testcancel( )	m	m	m	thr	m	.	t	.	.
ptsname( )	m	xsi	m	xsi	m	m	.	.	.
putc( )	m	m	m	m	m	m	m	m	m
putc_unlocked( )	m	m	m	tsf	m	.	t	.	.
putchar( )	m	m	m	m	m	m	m	m	m
putchar_unlocked( )	m	m	m	tsf	m	.	t	.	.
putenv( )	m	xsi	m	xsi	m	m	.	.	.
putmsg( )	ob o	ob xsr	o	xsr	m	m	.	.	.
putpmsg( )	ob o	ob xsr	o	xsr	m	m	.	.	.
puts( )	m	m	m	m	m	m	m	m	m
pututxline( )	m	xsi	m	xsi	m	m	.	.	.
putwc( )	m	m	m	m	m	m	.	m	1
putwchar( )	m	m	m	m	m	m	.	m	1
pwrite( )	m	m	m	xsi	m	.	.	.	.
qsort( )	m	m	m	m	m	m	m	m	m
raise( )	m	m	m	m	m	m	.	m	m
rand( )	m	m	m	m	m	m	m	m	m
rand_r( )	ob	ob	m	tsf	m	.	t	.	.
random( )	m	xsi	m	xsi	m	m	.	.	.
read( )	m	m	m	xsi	m	m	m	.	.
readdir( )	m	m	m	m	m	m	m	.	.
readdir_r( )	m	m	m	tsf	m	.	t	.	.
readlink( )	m	m	m	m	m	m	.	.	.
readlinkat( )	m	m	.	.	.	.	.	.	.
readv( )	m	xsi	m	xsi	m	m	.	.	.
realloc( )	m	m	m	m	m	m	m	m	m
realpath( )	m	xsi	m	xsi	m	m	.	.	.
recv( )	m	m	m	m	m	m	.	.	.
recvfrom( )	m	m	m	m	m	m	.	.	.
recvmsg( )	m	m	m	m	m	m	.	.	.
regcomp( )	m	m	m	m	m	o	m	.	.
regerror( )	m	m	m	m	m	o	m	.	.
regexec( )	m	m	m	m	m	o	m	.	.
regfree( )	m	m	m	m	m	o	m	.	.
remainder( )	m	m	m	m	m	m	.	m	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
remainderf( )	m	m	m	m	.	.	.	m	.
remainderl( )	m	m	m	m	.	.	.	m	.
remove( )	m	m	m	m	m	m	m	m	m
remque( )	m	xsi	m	xsi	m	m	.	.	.
remquo( )	m	m	m	m	.	.	.	m	.
remquof( )	m	m	m	m	.	.	.	m	.
remquol( )	m	m	m	m	.	.	.	m	.
rename( )	m	m	m	m	m	m	m	m	m
renameat( )	m	m	.	.	.	.	.	.	.
rewind( )	m	m	m	m	m	m	m	m	m
rewinddir( )	m	m	m	m	m	m	m	.	.
rint( )	m	m	m	m	m	m	.	m	.
rintf( )	m	m	m	m	.	.	.	m	.
rintl( )	m	m	m	m	.	.	.	m	.
rmdir( )	m	m	m	m	m	m	m	.	.
round( )	m	m	m	m	.	.	.	m	.
roundf( )	m	m	m	m	.	.	.	m	.
roundl( )	m	m	m	m	.	.	.	m	.
scalbln( )	m	m	m	m	.	.	.	m	.
scalblnf( )	m	m	m	m	.	.	.	m	.
scalblnl( )	m	m	m	m	.	.	.	m	.
scalbn( )	m	m	m	m	.	.	.	m	.
scalbnf( )	m	m	m	m	.	.	.	m	.
scalbnl( )	m	m	m	m	.	.	.	m	.
scandir( )	m	m	.	.	.	.	.	.	.
scanf( )	m	m	m	m	m	m	m	m	m
sched_get_priority_max( )	o	ps | tps	o	ps	o	.	r	.	.
sched_get_priority_min( )	o	ps | tps	o	ps	o	.	r	.	.
sched_getparam( )	o	ps	o	ps	o	.	r	.	.
sched_getscheduler( )	o	ps	o	ps	o	.	r	.	.
sched_rr_get_interval( )	o	ps | tps	o	ps	o	.	r	.	.
sched_setparam( )	o	ps	o	ps	o	.	r	.	.
sched_setscheduler( )	o	ps	o	ps	o	.	r	.	.
sched_yield( )	m	m	m	ps | thr	m	.	r	.	.
seed48( )	m	xsi	m	xsi	m	m	.	.	.
seekdir( )	m	xsi	m	xsi	m	m	.	.	.
select( )	m	m	m	m	m	m	.	.	.
sem_close( )	m	m	o	sem	o	.	r	.	.
sem_destroy( )	m	m	o	sem	o	.	r	.	.
sem_getvalue( )	m	m	o	sem	o	.	r	.	.
sem_init( )	m	m	o	sem	o	.	r	.	.
sem_open( )	m	m	o	sem	o	.	r	.	.
sem_post( )	m	m	o	sem	o	.	r	.	.
sem_timedwait( )	m	m	o	sem tmo	.	.	.	.	.
sem_trywait( )	m	m	o	sem	o	.	r	.	.
sem_unlink( )	m	m	o	sem	o	.	r	.	.
sem_wait( )	m	m	o	sem	o	.	r	.	.
semctl( )	m	xsi	m	xsi	m	m	.	.	.
semget( )	m	xsi	m	xsi	m	m	.	.	.
semop( )	m	xsi	m	xsi	m	m	.	.	.

Interface	XSI	POSIX	U03	P01	U98	U95	P96 P92	C99	C89
send( )	m	m	m	m	m	m	.	.	.
sendmsg( )	m	m	m	m	m	m	.	.	.
sendto( )	m	m	m	m	m	m	.	.	.
setbuf( )	m	m	m	m	m	m	m	m	m
setegid( )	m	m	m	m	.	.	.	.	.
setenv( )	m	m	m	m	.	.	.	.	.
seteuid( )	m	m	m	m	.	.	.	.	.
setgid( )	m	m	m	m	m	m	m	.	.
setgrent( )	m	xsi	m	xsi	m	m	.	.	.
sethostent( )	m	m	m	m	m	m	.	.	.
setitimer( )	ob	ob xsi	m	xsi	m	m	.	.	.
setjmp( )	m	m	m	m	m	m	m	m	m
setkey( )	m	xsi	o	xsi	o	o	.	.	.
setlocale( )	m	m	m	m	m	m	m	m	m
setlogmask( )	m	xsi	m	xsi	m	m	.	.	.
setnetent( )	m	m	m	m	m	m	.	.	.
setpgid( )	m	m	m	m	m	m	m	.	.
setpgrp( )	ob	ob xsi	m	xsi	m	m	.	.	.
setpriority( )	m	xsi	m	xsi	m	m	.	.	.
setprotoent( )	m	m	m	m	m	m	.	.	.
setpwent( )	m	xsi	m	xsi	m	m	.	.	.
setregid( )	m	xsi	m	xsi	m	m	.	.	.
setreuid( )	m	xsi	m	xsi	m	m	.	.	.
setrlimit( )	m	xsi	m	xsi	m	m	.	.	.
setservent( )	m	m	m	m	m	m	.	.	.
setsid( )	m	m	m	m	m	m	m	.	.
setsockopt( )	m	m	m	m	m	m	.	.	.
setstate( )	m	xsi	m	xsi	m	m	.	.	.
setuid( )	m	m	m	m	m	m	m	.	.
setutxent( )	m	xsi	m	xsi	m	m	.	.	.
setvbuf( )	m	m	m	m	m	m	.	m	m
shm_open( )	o	shm	o	shm	o	.	r	.	.
shm_unlink( )	o	shm	o	shm	o	.	r	.	.
shmat( )	m	xsi	m	xsi	m	o	.	.	.
shmctl( )	m	xsi	m	xsi	m	o	.	.	.
shmdt( )	m	xsi	m	xsi	m	o	.	.	.
shmget( )	m	xsi	m	xsi	m	o	.	.	.
shutdown( )	m	m	m	m	m	m	.	.	.
sigaction( )	m	m	m	m	m	m	m	.	.
sigaddset( )	m	m	m	m	m	m	m	.	.
sigaltstack( )	m	xsi	m	xsi	m	m	.	.	.
sigdelset( )	m	m	m	m	m	m	m	.	.
sigemptyset( )	m	m	m	m	m	m	m	.	.
sigfillset( )	m	m	m	m	m	m	m	.	.
sighold( )	ob	ob xsi	m	xsi	m	m	.	.	.
sigignore( )	ob	ob xsi	m	xsi	m	m	.	.	.
siginterrupt( )	ob	ob xsi	m	xsi	m	m	.	.	.
sigismember( )	m	m	m	m	m	m	m	.	.
siglongjmp( )	m	m	m	m	m	m	m	.	.
signal( )	m	m	m	m	m	m	.	m	m

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
signbit( )	m	m	m	m	.	.	.	m	.
signgam	m	xsi	m	xsi	.	.	.	.	.
sigpause( )	ob	ob xsi	m	xsi	m	m	.	.	.
sigpending( )	m	m	m	m	m	m	m	.	.
sigprocmask( )	m	m	m	thr	m	m	m	.	.
sigqueue( )	m	m	o	rts	o	.	r	.	.
sigrelse( )	ob	ob xsi	m	xsi	m	m	.	.	.
sigset( )	ob	ob xsi	m	xsi	m	m	.	.	.
sigsetjmp( )	m	m	m	m	m	m	m	.	.
sigsuspend( )	m	m	m	m	m	m	m	.	.
sigtimedwait( )	m	m	o	rts	o	.	r	.	.
sigwait( )	m	m	m	m	m	.	t	.	.
sigwaitinfo( )	m	m	o	rts	o	.	r	.	.
sin( )	m	m	m	m	m	m	m	m	m
sinf( )	m	m	m	m	.	.	.	m	.
sinh( )	m	m	m	m	m	m	m	m	m
sinhf( )	m	m	m	m	.	.	.	m	.
sinhl( )	m	m	m	m	.	.	.	m	.
sinl( )	m	m	m	m	.	.	.	m	.
sleep( )	m	m	m	m	m	m	m	.	.
snprintf( )	m	m	m	m	m	.	.	m	.
sockatmark( )	m	m	m	m	.	.	.	.	.
socket( )	m	m	m	m	m	m	.	.	.
socketpair( )	m	m	m	m	m	m	.	.	.
sprintf( )	m	m	m	m	m	m	m	m	m
sqrt( )	m	m	m	m	m	m	m	m	m
sqrtf( )	m	m	m	m	.	.	.	m	.
sqrtl( )	m	m	m	m	.	.	.	m	.
srand48( )	m	xsi	m	xsi	m	m	.	.	.
srand( )	m	m	m	m	m	m	m	m	m
srandom( )	m	xsi	m	xsi	m	m	.	.	.
sscanf( )	m	m	m	m	m	m	m	m	m
stat( )	m	m	m	m	m	m	m	.	.
statvfs( )	m	m	m	xsi	m	m	.	.	.
stderr	m	m	m	m	m	m	m	m	m
stdin	m	m	m	m	m	m	m	m	m
stdout	m	m	m	m	m	m	m	m	m
stpcpy( )	m	m	.	.	.	.	.	.	.
stpncpy( )	m	m	.	.	.	.	.	.	.
strcasecmp( )	m	m	m	xsi	m	m	.	.	.
strcasecmp_l( )	m	m	.	.	.	.	.	.	.
strcat( )	m	m	m	m	m	m	m	m	m
strchr( )	m	m	m	m	m	m	m	m	m
strcmp( )	m	m	m	m	m	m	m	m	m
strcoll( )	m	m	m	m	m	m	.	m	m
strcoll_l( )	m	m	.	.	.	.	.	.	.
strcpy( )	m	m	m	m	m	m	m	m	m
strcspn( )	m	m	m	m	m	m	m	m	m
strdup( )	m	m	m	xsi	m	m	.	.	.
strerror( )	m	m	m	m	m	m	.	m	m

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
strerror_l( )	m	m	.	.	.	.	.	.	.
strerror_r( )	m	m	m	tsf	.	.	.	.	.
strfmon( )	m	m	m	xsi	m	o	.	.	.
strfmon_l( )	m	m	.	.	.	.	.	.	.
strftime( )	m	m	m	m	m	m	m	m	m
strftime_l( )	m	m	.	.	.	.	.	.	.
strlen( )	m	m	m	m	m	m	m	m	m
strncasecmp( )	m	m	m	xsi	m	m	.	.	.
strncasecmp_l( )	m	m	.	.	.	.	.	.	.
strncat( )	m	m	m	m	m	m	m	m	m
strncmp( )	m	m	m	m	m	m	m	m	m
strncpy( )	m	m	m	m	m	m	m	m	m
strndup( )	m	m	.	.	.	.	.	.	.
strnlen( )	m	m	.	.	.	.	.	.	.
strpbrk( )	m	m	m	m	m	m	m	m	m
strptime( )	m	xsi	m	xsi	m	o	.	.	.
strrchr( )	m	m	m	m	m	m	m	m	m
strsignal( )	m	m	.	.	.	.	.	.	.
strspn( )	m	m	m	m	m	m	m	m	m
strstr( )	m	m	m	m	m	m	m	m	m
strtod( )	m	m	m	m	m	m	.	m	m
strtof( )	m	m	m	m	.	.	.	m	.
strtoimax( )	m	m	m	m	.	.	.	m	.
strtok( )	m	m	m	m	m	m	m	m	m
strtok_r( )	m	m	m	tsf	m	.	t	.	.
strtol( )	m	m	m	m	m	m	.	m	m
strtold( )	m	m	m	m	.	.	.	m	.
strtoll( )	m	m	m	m	.	.	.	m	.
strtoul( )	m	m	m	m	m	m	.	m	m
strtoull( )	m	m	m	m	.	.	.	m	.
strtoumax( )	m	m	m	m	.	.	.	m	.
strxfrm( )	m	m	m	m	m	m	.	m	m
strxfrm_l( )	m	m	.	.	.	.	.	.	.
swab( )	m	xsi	m	xsi	m	m	.	.	.
swprintf( )	m	m	m	m	m	.	.	m	1
swscanf( )	m	m	m	m	m	.	.	m	1
symlink( )	m	m	m	m	m	m	.	.	.
symlinkat( )	m	m	.	.	.	.	.	.	.
sync( )	m	xsi	m	xsi	m	m	.	.	.
sysconf( )	m	m	m	m	m	m	m	.	.
syslog( )	m	xsi	m	xsi	m	m	.	.	.
system( )	m	m	m	m	m	m	.	m	m
tan( )	m	m	m	m	m	m	m	m	m
tanf( )	m	m	m	m	.	.	.	m	.
tanh( )	m	m	m	m	m	m	m	m	m
tanhf( )	m	m	m	m	.	.	.	m	.
tanhl( )	m	m	m	m	.	.	.	m	.
tanl( )	m	m	m	m	.	.	.	m	.
tcdrain( )	m	m	m	m	m	m	m	.	.
tcflow( )	m	m	m	m	m	m	m	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
tcflush( )	m	m	m	m	m	m	m	.	.
tcgetattr( )	m	m	m	m	m	m	m	.	.
tcgetpgrp( )	m	m	m	m	m	m	m	.	.
tcgetsid( )	m	m	m	xsi	m	m	.	.	.
tcsendbreak( )	m	m	m	m	m	m	m	.	.
tcsetattr( )	m	m	m	m	m	m	m	.	.
tcsetpgrp( )	m	m	m	m	m	m	m	.	.
tdelete( )	m	xsi	m	xsi	m	m	.	.	.
telldir( )	m	xsi	m	xsi	m	m	.	.	.
tempnam( )	ob	ob xsi	m	xsi	m	m	.	.	.
tfind( )	m	xsi	m	xsi	m	m	.	.	.
tgamma( )	m	m	m	m	.	.	.	m	.
tgammaf( )	m	m	m	m	.	.	.	m	.
tgammal( )	m	m	m	m	.	.	.	m	.
time( )	m	m	m	m	m	m	m	m	m
timer_create( )	m	m	o	tmr	o	.	r	.	.
timer_delete( )	m	m	o	tmr	o	.	r	.	.
timer_getoverrun( )	m	m	o	tmr	o	.	r	.	.
timer_gettime( )	m	m	o	tmr	o	.	r	.	.
timer_settime( )	m	m	o	tmr	o	.	r	.	.
times( )	m	m	m	m	m	m	m	.	.
timezone	m	xsi	m	xsi	m	m	.	.	.
tmpfile( )	m	m	m	m	m	m	m	m	m
tmpnam( )	ob	ob	m	m	m	m	m	m	m
toascii( )	ob	ob xsi	m	xsi	m	m	.	.	.
tolower( )	m	m	m	m	m	m	m	m	m
tolower_l( )	m	m	.	.	.	.	.	.	.
toupper( )	m	m	m	m	m	m	m	m	m
toupper_l( )	m	m	.	.	.	.	.	.	.
towctrans( )	m	m	m	m	m	.	.	m	1
towctrans_l( )	m	m	.	.	.	.	.	.	.
towlower( )	m	m	m	m	m	m	.	m	1
towlower_l( )	m	m	.	.	.	.	.	.	.
towupper( )	m	m	m	m	m	m	.	m	1
towupper_l( )	m	m	.	.	.	.	.	.	.
trunc( )	m	m	m	m	.	.	.	m	.
truncate( )	m	m	m	xsi	m	m	.	.	.
truncf( )	m	m	m	m	.	.	.	m	.
truncl( )	m	m	m	m	.	.	.	m	.
tsearch( )	m	xsi	m	xsi	m	m	.	.	.
ttyname( )	m	m	m	tsf	m	m	m	.	.
ttyname_r( )	m	m	m	tsf	m	.	t	.	.
twalk( )	m	xsi	m	xsi	m	m	.	.	.
tzname	m	m	m	xsi	m	m	m	.	.
tzset( )	m	m	m	xsi	m	m	m	.	.
ulimit( )	ob	ob xsi	m	xsi	m	m	.	.	.
umask( )	m	m	m	m	m	m	m	.	.
uname( )	m	m	m	m	m	m	m	.	.
ungetc( )	m	m	m	m	m	m	m	m	m
ungetwc( )	m	m	m	m	m	m	.	m	1

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
unlink( )	m	m	m	m	m	m	m	.	.
unlinkat( )	m	m	.	.	.	.	.	.	.
unlockpt( )	m	xsi	m	xsi	m	m	.	.	.
unsetenv( )	m	m	m	m	.	.	.	.	.
uselocale( )	m	m	.	.	.	.	.	.	.
utime( )	ob	ob	m	m	m	m	m	.	.
utimensat( )	m	m	.	.	.	.	.	.	.
utimes( )	m	xsi	l	xsi	m	m	.	.	.
va_arg( )	m	m	m	m	.	.	.	.	.
va_copy( )	m	m	m	m	.	.	.	.	.
va_end( )	m	m	m	m	.	.	.	.	.
va_start( )	m	m	m	m	.	.	.	.	.
vdprintf( )	m	m	.	.	.	.	.	.	.
vfprintf( )	m	m	m	m	m	m	.	.	.
vfscanf( )	m	m	m	m	.	.	.	m	.
vfwprintf( )	m	m	m	m	m	.	.	m	1
vfwscanf( )	m	m	m	m	.	.	.	m	.
vprintf( )	m	m	m	m	m	m	.	m	m
vscanf( )	m	m	m	m	.	.	.	m	.
vsnprintf( )	m	m	m	m	m	.	.	m	.
vsprintf( )	m	m	m	m	m	m	.	m	m
vsscanf( )	m	m	m	m	.	.	.	m	.
vswprintf( )	m	m	m	m	m	.	.	m	1
vswscanf( )	m	m	m	m	.	.	.	m	.
vwprintf( )	m	m	m	m	m	.	.	m	1
vwscanf( )	m	m	m	m	.	.	.	m	.
wait( )	m	m	m	m	m	m	m	.	.
waitid( )	m	m	m	xsi	m	m	.	.	.
waitpid( )	m	m	m	m	m	m	m	.	.
wcpcpy( )	m	m	.	.	.	.	.	.	.
wcpncpy( )	m	m	.	.	.	.	.	.	.
wcrtomb( )	m	m	m	m	m	.	.	m	1
wcscasecmp( )	m	m	.	.	.	.	.	.	.
wcscasecmp_l( )	m	m	.	.	.	.	.	.	.
wcscat( )	m	m	m	m	m	m	.	m	1
wcschr( )	m	m	m	m	m	m	.	m	1
wcscmp( )	m	m	m	m	m	m	.	m	1
wcscoll( )	m	m	m	m	m	o	.	m	1
wcscoll_l( )	m	m	.	.	.	.	.	.	.
wcscpy( )	m	m	m	m	m	m	.	m	1
wcscspn( )	m	m	m	m	m	m	.	m	1
wcsdup( )	m	m	.	.	.	.	.	.	.
wcsftime( )	m	m	m	m	m	o	.	m	1
wcslen( )	m	m	m	m	m	m	.	m	1
wcsncasecmp( )	m	m	.	.	.	.	.	.	.
wcsncasecmp_l( )	m	m	.	.	.	.	.	.	.
wcsncat( )	m	m	m	m	m	m	.	m	1
wcsncmp( )	m	m	m	m	m	m	.	m	1
wcsncpy( )	m	m	m	m	m	m	.	m	1
wcsnlen( )	m	m	.	.	.	.	.	.	.

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Interface	**XSI**	**POSIX**	**U03**	**P01**	**U98**	**U95**	**P92**	**C99**	**C89**
wcsnrtombs( )	m	m	.	.	.	.	.	.	.
wcspbrk( )	m	m	m	m	m	m	.	m	1
wcsrchr( )	m	m	m	m	m	m	.	m	1
wcsrtombs( )	m	m	m	m	m	.	.	m	1
wcsspn( )	m	m	m	m	m	m	.	m	1
wcsstr( )	m	m	m	m	m	.	.	m	1
wcstod( )	m	m	m	m	m	m	.	m	1
wcstof( )	m	m	m	m	.	.	.	m	.
wcstoimax( )	m	m	m	m	.	.	.	m	.
wcstok( )	m	m	m	m	m	m	.	m	1
wcstol( )	m	m	m	m	m	m	.	m	1
wcstold( )	m	m	m	m	.	.	.	m	.
wcstoll( )	m	m	m	m	.	.	.	m	.
wcstombs( )	m	m	m	m	m	m	.	m	m
wcstoul( )	m	m	m	m	m	m	.	m	1
wcstoull( )	m	m	m	m	.	.	.	m	.
wcstoumax( )	m	m	m	m	.	.	.	m	.
wcswidth( )	m	xsi	m	xsi	m	m	.	.	.
wcsxfrm( )	m	m	m	m	m	o	.	m	1
wcsxfrm_l( )	m	m	.	.	.	.	.	.	.
wctob( )	m	m	m	m	m	.	.	m	1
wctomb( )	m	m	m	m	m	m	.	m	m
wctrans( )	m	m	m	m	m	.	.	m	1
wctrans_l( )	m	m	.	.	.	.	.	.	.
wctype( )	m	m	m	m	m	m	.	m	1
wctype_l( )	m	m	.	.	.	.	.	.	.
wcwidth( )	m	xsi	m	xsi	m	m	.	.	.
wmemchr( )	m	m	m	m	m	.	.	m	1
wmemcmp( )	m	m	m	m	m	.	.	m	1
wmemcpy( )	m	m	m	m	m	.	.	m	1
wmemmove( )	m	m	m	m	m	.	.	m	1
wmemset( )	m	m	m	m	m	.	.	m	1
wordexp( )	m	m	m	m	m	o	m	.	.
wordfree( )	m	m	m	m	m	o	m	.	.
wprintf( )	m	m	m	m	m	.	.	m	1
write( )	m	m	m	xsi	m	m	m	.	.
writev( )	m	xsi	m	xsi	m	m	.	.	.
wscanf( )	m	m	m	m	m	.	.	m	1
y0( )	m	xsi	m	xsi	m	m	.	.	.
y1( )	m	xsi	m	xsi	m	m	.	.	.
yn( )	m	xsi	m	xsi	m	m	.	.	.

Chapter 8

Utility Interface Table

8.1 Introduction

This chapter lists all the utilities described in XCU, Issue 7, complete with an indication of their status for XSI-conforming and POSIX-conforming systems, and indicates what other specifications support the interfaces.

The following conventions are used in columns 2 through 8:

m Indicates that the interface is defined as mandatory.

d Indicates that the interface is part of the DEVELOPMENT Option or Feature Group.

f Indicates that the interface is part of the FORTRAN Option or Feature Group.

2d Indicates that the interface is part of IEEE Std 1003.2d-1994 (Batch Environment).

o Indicates that the interface is optional.

ob Indicates that the interface is Obsolescent, and although mandatory for the implementation, applications are discouraged from its use.

ob o In the XSI column, indicates that the interface is Obsolescent, and is optional. Applications are discouraged from its use.

opt In the POSIX and POSIX 01 columns, two or three letter option codes are used as described in Portability Codes denoting the option to which the interface belongs.

ob *opt* Same as *opt*, but the interface is also obsolescent.

. Indicates that the interface is not specified.

It should be noted that while another specification may support the interface, some of the interface semantics may have changed with evolution and standardization. A developer should not assume that because the interface appears in other specifications, it will behave exactly as described in the Single UNIX Specification, Version 4.

8.2 Utility Interface Table

There are 160 utilities listed.

Interface	XSI	POSIX	UNIX 03	POSIX 01	UNIX 98	UNIX 95	POSIX.2-92
admin	d	xsi	d	xsi	d	d	.
alias	m	m	m	up	m	m	o
ar	m	m	m	sd	m	m	o
asa	o	fr	o	fr	m	m	o
at	m	m	m	up	m	m	o
awk	m	m	m	m	m	m	m
basename	m	m	m	m	m	m	m
batch	m	m	m	up	m	m	o
bc	m	m	m	m	m	m	m
bg	m	up	m	up	m	m	o
c99	m	cd	m	cd	.	.	.
cal	m	xsi	m	xsi	m	m	.
cat	m	m	m	m	m	m	m
cd	m	m	m	m	m	m	m
cflow	d	xsi	d	xsi	d	d	.
chgrp	m	m	m	m	m	m	m
chmod	m	m	m	m	m	m	m
chown	m	m	m	m	m	m	m
cksum	m	m	m	m	m	m	m
cmp	m	m	m	m	m	m	m
comm	m	m	m	m	m	m	m
command	m	m	m	up	m	m	m
compress	m	xsi	m	xsi	m	m	.
cp	m	m	m	m	m	m	m
crontab	m	m	m	up	m	m	o
csplit	m	m	m	up	m	m	o
ctags	d | f	sd	d | f	sd up	d | f	d | f	o
cut	m	m	m	m	m	m	m
cxref	d	xsi	d	xsi	d	d	.
date	m	m	m	m	m	m	m
dd	m	m	m	m	m	m	m
delta	d	xsi	d	xsi	d	d	.
df	m	m	m	up	m	m	o
diff	m	m	m	m	m	m	m
dirname	m	m	m	m	m	m	m
du	m	m	m	up	m	m	o
echo	m	m	m	m	m	m	m
ed	m	m	m	m	m	m	m
env	m	m	m	m	m	m	m
ex	m	up	m	up	m	m	o
expand	m	m	m	up	m	m	o
expr	m	m	m	m	m	m	m
false	m	m	m	m	m	m	m
fc	m	up	m	up	m	m	o
fg	m	up	m	up	m	m	o
file	m	m	m	up	m	m	o
find	m	m	m	m	m	m	m
fold	m	m	m	m	m	m	m
fort77	f	fd	f	fd	f	f	o
fuser	m	xsi	m	xsi	m	.	.
gencat	m	m	m	xsi	m	m	.

Interface	XSI	POSIX	UNIX 03	POSIX 01	UNIX 98	UNIX 95	POSIX.2-92
get	d	xsi	d	xsi	d	d	.
getconf	m	m	m	m	m	m	.
getopts	m	m	m	m	m	m	.
grep	m	m	m	m	m	m	m
hash	m	m	m	xsi	m	m	.
head	m	m	m	m	m	m	m
iconv	m	m	m	m	m	m	.
id	m	m	m	m	m	m	m
ipcrm	m	xsi	m	xsi	m	.	.
ipcs	m	xsi	m	xsi	m	.	.
jobs	m	up	m	up	m	m	o
join	m	m	m	m	m	m	m
kill	m	m	m	m	m	m	m
lex	d	cd	d	cd	d	d	o
link	m	xsi	m	xsi	m	.	.
ln	m	m	m	m	m	m	m
locale	m	m	m	m	m	m	m
localedef	m	m	m	m	m	m	m
logger	m	m	m	m	m	m	m
logname	m	m	m	m	m	m	m
lp	m	m	m	m	m	m	m
ls	m	m	m	m	m	m	m
m4	m	m	d	xsi	d	d	.
mailx	m	m	m	m	m	m	m
make	d	sd	d	sd	d	d	o
man	m	m	m	m	m	m	o
mesg	m	m	m	up	m	m	o
mkdir	m	m	m	m	m	m	m
mkfifo	m	m	m	m	m	m	m
more	m	up	m	up	m	m	o
mv	m	m	m	m	m	m	m
newgrp	m	m	m	up	m	m	o
nice	m	m	m	up	m	m	o
nl	m	xsi	m	xsi	m	m	.
nm	d	xsi | sd	d	sd up	d	d	o
nohup	m	m	m	m	m	m	m
od	m	m	m	m	m	m	m
paste	m	m	m	m	m	m	m
patch	m	m	m	up	m	m	o
pathchk	m	m	m	m	m	m	m
pax	m	m	m	m	m	m	m
pr	m	m	m	m	m	m	m
printf	m	m	m	m	m	m	m
prs	d	xsi	d	xsi	d	d	.
ps	m	m	m	up	m	m	o
pwd	m	m	m	m	m	m	m
qalter	ob o	ob be	o	be	.	.	2d
qdel	ob o	ob be	o	be	.	.	2d
qhold	ob o	ob be	o	be	.	.	2d
qmove	ob o	ob be	o	be	.	.	2d
qmsg	ob o	ob be	o	be	.	.	2d

Interface	XSI	POSIX	UNIX 03	POSIX 01	UNIX 98	UNIX 95	POSIX.2-92
qrerun	ob o	ob be	o	be	.	.	2d
qrls	ob o	ob be	o	be	.	.	2d
qselect	ob o	ob be	o	be	.	.	2d
qsig	ob o	ob be	o	be	.	.	2d
qstat	ob o	ob be	o	be	.	.	2d
qsub	ob o	ob be	o	be	.	.	2d
read	m	m	m	m	m	m	m
renice	m	m	m	up	m	m	o
rm	m	m	m	m	m	m	m
rmdel	d	xsi	d	xsi	d	d	.
rmdir	m	m	m	m	m	m	m
sact	d	xsi	d	xsi	d	d	.
sccs	d	xsi	d	xsi	d	d	.
sed	m	m	m	m	m	m	m
sh	m	m	m	m	m	m	m
sleep	m	m	m	m	m	m	m
sort	m	m	m	m	m	m	m
split	m	m	m	up	m	m	o
strings	m	m	m	up	m	m	o
strip	d	sd	d	sd	d	d	o
stty	m	m	m	m	m	m	m
tabs	m	m	m	up	m	m	o
tail	m	m	m	m	m	m	m
talk	m	up	m	up	m	m	o
tee	m	m	m	m	m	m	.
test	m	m	m	m	m	m	m
time	m	m	m	up	m	m	o
touch	m	m	m	m	m	m	m
tput	m	m	m	up	m	m	o
tr	m	m	m	m	m	m	m
true	m	m	m	m	m	m	m
tsort	m	m	m	xsi	m	m	.
tty	m	m	m	m	m	m	m
type	m	xsi	m	xsi	m	m	.
ulimit	m	xsi	m	xsi	m	m	.
umask	m	m	m	m	m	m	m
unalias	m	m	m	up	m	m	o
uname	m	m	m	m	m	m	m
uncompress	m	xsi	m	xsi	m	m	.
unexpand	m	m	m	up	m	m	o
unget	d	xsi	d	xsi	d	d	.
uniq	m	m	m	m	m	m	m
unlink	m	xsi	m	xsi	m	.	.
uucp	o	uu	m	xsi	m	m	.
uudecode	m	m	m	up	m	m	o
uuencode	m	m	m	up	m	m	o
uustat	o	uu	m	xsi	m	m	.
uux	o	uu	m	xsi	m	m	.
val	d	xsi	d	xsi	d	d	.
vi	m	up	m	up	m	m	o
wait	m	m	m	m	m	m	m

Interface	**XSI**	**POSIX**	**UNIX 03**	**POSIX 01**	**UNIX 98**	**UNIX 95**	**POSIX.2-92**
wc	m	m	m	m	m	m	m
what	d	xsi	d	xsi	d	d	.
who	m	m	m	up	m	m	o
write	m	m	m	up	m	m	o
xargs	m	m	m	m	m	m	m
yacc	d	cd	d	cd	d	d	o
zcat	m	xsi	m	xsi	m	m	.

Chapter 9

Header Interface Table

9.1 Introduction

This chapter lists all the headers defined in XBD, Issue 7, complete with an indication of their status for XSI-conforming and POSIX-conforming systems, and their availability in UNIX 03, UNIX 98, UNIX 95, POSIX.1-2001 (denoted P01), the IEEE Std 1003.1c-1995 (denoted P96), the IEEE Std 1003.2-1992 (POSIX.2) (denoted P92), the IEEE Std 1003.1i-1995 (denoted C99), and C89.

The following conventions are used in columns 2 through 10:

m Indicates that the interface is defined as mandatory.

o Indicates that the interface is part of an Option or Feature Group.

ob Indicates that the interface is Obsolescent, and although mandatory for the implementation, applications are discouraged from its use.

ob o In the XSI column, indicates that the interface is Obsolescent, and is part of an Option or Feature Group. Applications are discouraged from its use.

opt In the POSIX and P01 columns, two or three letter option codes are used as described in XBD, Issue 7 (for the POSIX column) and XBD, Issue 6 (for the P01 column), denoting the option to which the interface belongs.

ob *opt* Same as *opt*, but the interface is also obsolescent.

r In the P96 column, indicates that the interface is part of the POSIX Realtime Extension.

t In the P96 column, indicates that the interface is part of the POSIX Threads Extension.

1 In the C89 column, indicates that the interface is part of the .

. Indicates that the interface is not specified.

9.2 Header Interface Table

There are 82 headers listed.

Interface	XSI	POSIX	UNIX 03	P01	UNIX 98	UNIX 95	P96 P92	C99	C89
<aio.h>	m	m	o	aio	o	.	r	.	.
<arpa/inet.h>	m	m	m	m	m	m	.	.	.
<assert.h>	m	m	m	m	m	m	.	m	m
<complex.h>	m	m	m	m	.	.	.	m	.
<cpio.h>	m	m	m	xsi	m	m	.	.	.
<ctype.h>	m	m	m	m	m	m	.	m	m
<dirent.h>	m	m	m	m	m	m	m	.	.
<dlfcn.h>	m	m	m	xsi	m	.	.	.	.
<errno.h>	m	m	m	m	m	m	m	m	m
<fcntl.h>	m	m	m	m	m	m	m	.	.
<fenv.h>	m	m	m	m	.	.	.	m	.
<float.h>	m	m	m	m	m	m	m	m	m
<fmtmsg.h>	m	xsi	m	xsi	m	m	m	.	.
<fnmatch.h>	m	m	m	m	m	m	m	.	.
<ftw.h>	m	xsi	m	xsi	m	m	.	.	.
<glob.h>	m	m	m	m	m	m	m	.	.
<grp.h>	m	m	m	m	m	m	m	.	.
<iconv.h>	m	m	m	xsi	m	m	.	.	.
<inttypes.h>	m	m	m	m	m	.	.	m	.
<iso646.h>	m	m	m	m	m	.	.	m	1
<langinfo.h>	m	m	m	xsi	m	m	.	.	.
<libgen.h>	m	xsi	m	xsi	m	m	.	.	.
<limits.h>	m	m	m	m	m	m	m	m	m
<locale.h>	m	m	m	m	m	m	m	m	m
<math.h>	m	m	m	m	m	m	m	m	m
<monetary.h>	m	m	m	xsi	m	m	.	.	.
<mqueue.h>	o	msg	o	msg	o	.	r	.	.
<ndbm.h>	m	xsi	m	xsi	m	m	.	.	.
<net/if.h>	m	m	m	m	m	m	.	.	.
<netdb.h>	m	m	m	m	m	m	m	.	.
<netinet/in.h>	m	m	m	m	m	m	m	.	.
<netinet/tcp.h>	m	m	m	m	m	m	m	.	.
<nl_types.h>	m	m	m	xsi	m	m	.	.	.
<poll.h>	m	m	m	m	m	m	.	.	.
<pthread.h>	m	m	m	thr	m	.	t	.	.
<pwd.h>	m	m	m	m	m	m	m	.	.
<regex.h>	m	m	m	m	m	m	m	.	.
<sched.h>	m	m	o	ps	o	.	r	.	.
<search.h>	m	xsi	m	xsi	m	m	.	.	.
<semaphore.h>	m	m	o	sem	o	.	r	.	.
<setjmp.h>	m	m	m	m	m	m	m	m	m
<signal.h>	m	m	m	m	m	m	m	m	m
<spawn.h>	o	spn	o	spn	.	.	.	.	.
<stdarg.h>	m	m	m	m	m	m	m	m	m
<stdbool.h>	m	m	m	m	m	m	m	m	.
<stddef.h>	m	m	m	m	m	m	m	m	m
<stdint.h>	m	m	m	m	.	.	.	m	.
<stdio.h>	m	m	m	m	m	m	m	m	m
<stdlib.h>	m	m	m	m	m	m	m	m	m
<string.h>	m	m	m	m	m	m	m	m	m
<strings.h>	m	m	m	xsi	m	m	.	.	.

Interface	XSI	POSIX	UNIX 03	P01	UNIX 98	UNIX 95	P96 P92	C99	C89
<stropts.h>	ob o	ob xsr	o	xsr	m	m	.	.	.
<sys/ipc.h>	m	xsi	m	xsi	m	m	.	.	.
<sys/mman.h>	m	m	m	m	m	m	m	.	.
<sys/msg.h>	m	xsi	m	xsi	m	m	.	.	.
<sys/resource.h>	m	xsi	m	xsi	m	m	.	.	.
<sys/select.h>	m	m	m	m	m	m	.	.	.
<sys/sem.h>	m	xsi	m	xsi	m	m	m	.	.
<sys/shm.h>	m	xsi	m	xsi	m	m	.	.	.
<sys/socket.h>	m	m	m	m	m	m	.	.	.
<sys/stat.h>	m	m	m	m	m	m	m	.	.
<sys/statvfs.h>	m	m	m	xsi	m	m	m	.	.
<sys/time.h>	m	xsi	m	xsi	m	m	.	.	.
<sys/times.h>	m	m	m	m	m	m	m	.	.
<sys/types.h>	m	m	m	m	m	m	m	.	.
<sys/uio.h>	m	xsi	m	xsi	m	m	.	.	.
<sys/un.h>	m	m	m	m	m	m	.	.	.
<sys/utsname.h>	m	m	m	m	m	m	m	.	.
<sys/wait.h>	m	m	m	m	m	m	m	.	.
<syslog.h>	m	xsi	m	xsi	m	m	.	.	.
<tar.h>	m	m	m	m	m	m	m	.	.
<termios.h>	m	m	m	m	m	m	m	.	.
<tgmath.h>	m	m	m	m	.	.	.	m	.
<time.h>	m	m	m	m	m	m	.	m	m
<trace.h>	ob o	ob trc	o	trc	.	.	.	.	.
<ulimit.h>	ob	ob xsi	m	xsi	m	m	.	.	.
<unistd.h>	m	m	m	m	m	m	m	.	.
<utime.h>	ob	ob	m	m	m	m	m	.	.
<utmpx.h>	m	xsi	m	xsi	m	m	.	.	.
<wchar.h>	m	m	m	m	m	m	.	m	1
<wctype.h>	m	m	m	m	m	m	.	m	1
<wordexp.h>	m	m	m	m	m	m	m	.	.

Chapter 10

XCURSES Interface Table

10.1 Introduction

This chapter contains tables of all the interfaces defined in , complete with an indication of their availability for the Single UNIX Specification (denoted by SUSv4), and their availability in UNIX 03, UNIX 98, UNIX 95, and Curses, Issue 3. The XCURSES interfaces are not specified for the POSIX base in IEEE Std 1003.1-2001.

There is one table for system interfaces, one for headers, and one for utilities.

The following conventions are used in columns 2 through 6:

m Indicates that the interface is defined as mandatory.

ob Indicates that the interface is Obsolescent, and although mandatory for the implementation, applications are discouraged from its use.

. Indicates that the interface is not specified.

The tables are intended as a quick reference guide for programmers migrating to or developing applications for the Single UNIX Specification, Version 4.

10.2 XCURSES Interface Table

System Interfaces

There are 379 system interfaces listed.

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
COLOR_PAIR( )	m	m	m	m	.
COLOR_PAIRS	m	m	m	m	.
COLORS	m	m	m	m	.
COLS	m	m	m	m	m
LINES	m	m	m	m	m
PAIR_NUMBER( )	m	m	m	m	.
add_wch( )	m	m	m	m	.
add_wchnstr( )	m	m	m	m	.
add_wchstr( )	m	m	m	m	.
addch( )	m	m	m	m	m
addchnstr( )	m	m	m	m	.
addchstr( )	m	m	m	m	.
addnstr( )	m	m	m	m	.
addnwstr( )	m	m	m	m	.
addstr( )	m	m	m	m	m
addwstr( )	m	m	m	m	.

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
attr_get( )	m	m	m	m	.
attr_off( )	m	m	m	m	.
attr_on( )	m	m	m	m	.
attr_set( )	m	m	m	m	.
attroff( )	m	m	m	m	m
attron( )	m	m	m	m	m
attrset( )	m	m	m	m	m
baudrate( )	m	m	m	m	m
beep( )	m	m	m	m	m
bkgd( )	m	m	m	m	.
bkgdset( )	m	m	m	m	.
bkgrnd( )	m	m	m	m	.
bkgrndset( )	m	m	m	m	.
border( )	m	m	m	m	.
border_set( )	m	m	m	m	.
box( )	m	m	m	m	m
box_set( )	m	m	m	m	.
can_change_color( )	m	m	m	m	.
cbreak( )	m	m	m	m	m
chgat( )	m	m	m	m	.
clear( )	m	m	m	m	m
clearok( )	m	m	m	m	m
clrtobot( )	m	m	m	m	m
clrtoeol( )	m	m	m	m	m
color_content( )	m	m	m	m	.
color_set( )	m	m	m	m	.
copywin( )	m	m	m	m	.
cur_term	m	m	m	m	.
curs_set( )	m	m	m	m	.
curscr	m	m	m	m	.
def_prog_mode( )	m	m	m	m	m
def_shell_mode( )	m	m	m	m	m
del_curterm( )	m	m	m	m	.
delay_output( )	m	m	m	m	m
delch( )	m	m	m	m	m
deleteln( )	m	m	m	m	m
delscreen( )	m	m	m	m	.
delwin( )	m	m	m	m	m
derwin( )	m	m	m	m	.
doupdate( )	m	m	m	m	m
dupwin( )	m	m	m	m	.
echo( )	m	m	m	m	m
echo_wchar( )	m	m	m	m	.
echochar( )	m	m	m	m	.
endwin( )	m	m	m	m	m
erase( )	m	m	m	m	m
erasechar( )	m	m	m	m	m
erasewchar( )	m	m	m	m	.
filter( )	m	m	m	m	.
flash( )	m	m	m	m	m
flushinp( )	m	m	m	m	m

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
get_wch( )	m	m	m	m	.
get_wstr( )	m	m	m	m	.
getbegyx( )	m	m	m	m	.
getbkgd( )	m	m	m	m	.
getbkgrnd( )	m	m	m	m	.
getcchar( )	m	m	m	m	.
getch( )	m	m	m	m	m
getmaxyx( )	m	m	m	m	.
getn_wstr( )	m	m	m	m	.
getnstr( )	m	m	m	m	.
getparyx( )	m	m	m	m	.
getstr( )	m	m	m	m	m
getwin( )	m	m	m	m	.
getyx( )	m	m	m	m	m
halfdelay( )	m	m	m	m	.
has_colors( )	m	m	m	m	.
has_ic( )	m	m	m	m	m
has_il( )	m	m	m	m	m
hline( )	m	m	m	m	.
hline_set( )	m	m	m	m	.
idcok( )	m	m	m	m	.
idlok( )	m	m	m	m	m
immedok( )	m	m	m	m	.
in_wch( )	m	m	m	m	.
in_wchnstr( )	m	m	m	m	.
in_wchstr( )	m	m	m	m	.
inch( )	m	m	m	m	m
inchnstr( )	m	m	m	m	.
inchstr( )	m	m	m	m	.
init_color( )	m	m	m	m	.
init_pair( )	m	m	m	m	.
initscr( )	m	m	m	m	m
innstr( )	m	m	m	m	.
innwstr( )	m	m	m	m	.
ins_nwstr( )	m	m	m	m	.
ins_wch( )	m	m	m	m	.
ins_wstr( )	m	m	m	m	.
insch( )	m	m	m	m	m
insdelln( )	m	m	m	m	.
insertln( )	m	m	m	m	m
insnstr( )	m	m	m	m	.
insstr( )	m	m	m	m	.
instr( )	m	m	m	m	.
intrflush( )	m	m	m	m	m
inwstr( )	m	m	m	m	.
is_linetouched( )	m	m	m	m	.
is_wintouched( )	m	m	m	m	.
isendwin( )	m	m	m	m	.
key_name( )	m	m	m	m	.
keyname( )	m	m	m	m	.
keypad( )	m	m	m	m	m

Interface	**SUSv4**	**UNIX 03**	**UNIX 98**	**UNIX 95**	**Curses 3**
killchar( )	m	m	m	m	m
killwchar( )	m	m	m	m	.
leaveok( )	m	m	m	m	m
longname( )	m	m	m	m	m
meta( )	m	m	m	m	.
move( )	m	m	m	m	m
mvadd_wch( )	m	m	m	m	.
mvadd_wchnstr( )	m	m	m	m	.
mvadd_wchstr( )	m	m	m	m	.
mvaddch( )	m	m	m	m	m
mvaddchnstr( )	m	m	m	m	.
mvaddchstr( )	m	m	m	m	.
mvaddnstr( )	m	m	m	m	.
mvaddnwstr( )	m	m	m	m	.
mvaddstr( )	m	m	m	m	m
mvaddwstr( )	m	m	m	m	.
mvchgat( )	m	m	m	m	.
mvcur( )	m	m	m	m	.
mvdelch( )	m	m	m	m	m
mvderwin( )	m	m	m	m	.
mvget_wch( )	m	m	m	m	.
mvget_wstr( )	m	m	m	m	.
mvgetch( )	m	m	m	m	m
mvgetn_wstr( )	m	m	m	m	.
mvgetnstr( )	m	m	m	m	.
mvgetstr( )	m	m	m	m	m
mvhline( )	m	m	m	m	.
mvhline_set( )	m	m	m	m	.
mvin_wch( )	m	m	m	m	.
mvin_wchnstr( )	m	m	m	m	.
mvin_wchstr( )	m	m	m	m	.
mvinch( )	m	m	m	m	m
mvinchnstr( )	m	m	m	m	.
mvinchstr( )	m	m	m	m	.
mvinnstr( )	m	m	m	m	.
mvinnwstr( )	m	m	m	m	.
mvins_nwstr( )	m	m	m	m	.
mvins_wch( )	m	m	m	m	.
mvins_wstr( )	m	m	m	m	.
mvinsch( )	m	m	m	m	m
mvinsnstr( )	m	m	m	m	.
mvinsstr( )	m	m	m	m	.
mvinstr( )	m	m	m	m	.
mvinwstr( )	m	m	m	m	.
mvprintw( )	m	m	m	m	m
mvscanw( )	m	m	m	m	m
mvvline( )	m	m	m	m	.
mvvline_set( )	m	m	m	m	.
mvwadd_wch( )	m	m	m	m	.
mvwadd_wchnstr( )	m	m	m	m	.
mvwadd_wchstr( )	m	m	m	m	.

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
mvwaddch( )	m	m	m	m	m
mvwaddchnstr( )	m	m	m	m	.
mvwaddchstr( )	m	m	m	m	.
mvwaddnstr( )	m	m	m	m	.
mvwaddnwstr( )	m	m	m	m	.
mvwaddstr( )	m	m	m	m	m
mvwaddwstr( )	m	m	m	m	.
mvwchgat( )	m	m	m	m	.
mvwdelch( )	m	m	m	m	m
mvwget_wch( )	m	m	m	m	.
mvwget_wstr( )	m	m	m	m	.
mvwgetch( )	m	m	m	m	m
mvwgetn_wstr( )	m	m	m	m	.
mvwgetnstr( )	m	m	m	m	.
mvwgetstr( )	m	m	m	m	m
mvwhline( )	m	m	m	m	.
mvwhline_set( )	m	m	m	m	.
mvwin( )	m	m	m	m	m
mvwin_wch( )	m	m	m	m	.
mvwin_wchnstr( )	m	m	m	m	.
mvwin_wchstr( )	m	m	m	m	.
mvwinch( )	m	m	m	m	m
mvwinchnstr( )	m	m	m	m	.
mvwinchstr( )	m	m	m	m	.
mvwinnstr( )	m	m	m	m	.
mvwinnwstr( )	m	m	m	m	.
mvwins_nwstr( )	m	m	m	m	.
mvwins_wch( )	m	m	m	m	.
mvwins_wstr( )	m	m	m	m	.
mvwinsch( )	m	m	m	m	m
mvwinsnstr( )	m	m	m	m	.
mvwinsstr( )	m	m	m	m	.
mvwinstr( )	m	m	m	m	.
mvwinwstr( )	m	m	m	m	.
mvwprintw( )	m	m	m	m	m
mvwscanw( )	m	m	m	m	m
mvwvline( )	m	m	m	m	.
mvwvline_set( )	m	m	m	m	.
napms( )	m	m	m	m	.
newpad( )	m	m	m	m	m
newterm( )	m	m	m	m	m
newwin( )	m	m	m	m	m
nl( )	m	m	m	m	m
nocbreak( )	m	m	m	m	m
nodelay( )	m	m	m	m	m
noecho( )	m	m	m	m	m
nonl( )	m	m	m	m	m
noqiflush( )	m	m	m	m	.
noraw( )	m	m	m	m	m
notimeout( )	m	m	m	m	.
overlay( )	m	m	m	m	m

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
overwrite( )	m	m	m	m	m
pair_content( )	m	m	m	m	.
pecho_wchar( )	m	m	m	m	.
pechochar( )	m	m	m	m	.
pnoutrefresh( )	m	m	m	m	m
prefresh( )	m	m	m	m	m
printw( )	m	m	m	m	m
putp( )	m	m	m	m	.
putwin( )	m	m	m	m	.
qiflush( )	m	m	m	m	.
raw( )	m	m	m	m	m
redrawwin( )	m	m	m	m	.
refresh( )	m	m	m	m	m
reset_prog_mode( )	m	m	m	m	m
reset_shell_mode( )	m	m	m	m	m
resetty( )	m	m	m	m	m
restartterm( )	m	m	m	m	.
ripoffline( )	m	m	m	m	.
savetty( )	m	m	m	m	m
scanw( )	m	m	m	m	m
scr_dump( )	m	m	m	m	.
scr_init( )	m	m	m	m	.
scr_restore( )	m	m	m	m	.
scr_set( )	m	m	m	m	.
scrl( )	m	m	m	m	.
scroll( )	m	m	m	m	m
scrollok( )	m	m	m	m	m
set_curterm( )	m	m	m	m	.
set_term( )	m	m	m	m	m
setcchar( )	m	m	m	m	.
setscrreg( )	m	m	m	m	m
setupterm( )	m	m	m	m	.
slk_attr_off( )	m	m	m	m	.
slk_attr_on( )	m	m	m	m	.
slk_attr_set( )	m	m	m	m	.
slk_attroff( )	m	m	m	m	.
slk_attron( )	m	m	m	m	.
slk_attrset( )	m	m	m	m	.
slk_clear( )	m	m	m	m	.
slk_color( )	m	m	m	m	.
slk_init( )	m	m	m	m	.
slk_label( )	m	m	m	m	.
slk_noutrefresh( )	m	m	m	m	.
slk_refresh( )	m	m	m	m	.
slk_restore( )	m	m	m	m	.
slk_set( )	m	m	m	m	.
slk_touch( )	m	m	m	m	.
slk_wset( )	m	m	m	m	.
standend( )	m	m	m	m	m
standout( )	m	m	m	m	m
start_color( )	m	m	m	m	.

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
stdscr	m	m	m	m	m
subpad()	m	m	m	m	.
subwin()	m	m	m	m	m
syncok()	m	m	m	m	.
term_attrs()	m	m	m	m	.
termattrs()	m	m	m	m	.
termname()	m	m	m	m	.
tigetflag()	m	m	m	m	.
tigetnum()	m	m	m	m	.
tigetstr()	m	m	m	m	.
timeout()	m	m	m	m	.
tiparm()	m	.	.	.	.
touchline()	m	m	m	m	.
touchwin()	m	m	m	m	m
tparm()	ob	m	m	m	.
tputs()	m	m	m	m	.
typeahead()	m	m	m	m	m
unctrl()	m	m	m	m	m
unget_wch()	m	m	m	m	.
ungetch()	m	m	m	m	.
untouchwin()	m	m	m	m	.
use_env()	m	m	m	m	.
vid_attr()	m	m	m	m	.
vid_puts()	m	m	m	m	.
vidattr()	m	m	m	m	.
vidputs()	m	m	m	m	.
vline()	m	m	m	m	.
vline_set()	m	m	m	m	.
vw_printw()	m	m	m	m	.
vw_scanw()	m	m	m	m	.
wadd_wch()	m	m	m	m	.
wadd_wchnstr()	m	m	m	m	.
wadd_wchstr()	m	m	m	m	.
waddch()	m	m	m	m	m
waddchnstr()	m	m	m	m	.
waddchstr()	m	m	m	m	.
waddnstr()	m	m	m	m	.
waddnwstr()	m	m	m	m	.
waddstr()	m	m	m	m	m
waddwstr()	m	m	m	m	.
wattr_get()	m	m	m	m	.
wattr_off()	m	m	m	m	.
wattr_on()	m	m	m	m	.
wattr_set()	m	m	m	m	.
wattroff()	m	m	m	m	m
wattron()	m	m	m	m	m
wattrset()	m	m	m	m	m
wbkgd()	m	m	m	m	.
wbkgdset()	m	m	m	m	.
wbkgrnd()	m	m	m	m	.
wbkgrndset()	m	m	m	m	.

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
wborder( )	m	m	m	m	.
wborder_set( )	m	m	m	m	.
wchgat( )	m	m	m	m	.
wclear( )	m	m	m	m	m
wclrtobot( )	m	m	m	m	m
wclrtoeol( )	m	m	m	m	m
wcolor_set( )	m	m	m	m	.
wcursyncup( )	m	m	m	m	.
wdelch( )	m	m	m	m	m
wdeleteln( )	m	m	m	m	m
wecho_wchar( )	m	m	m	m	.
wechochar( )	m	m	m	m	.
werase( )	m	m	m	m	m
wget_wch( )	m	m	m	m	.
wget_wstr( )	m	m	m	m	.
wgetbkgrnd( )	m	m	m	m	.
wgetch( )	m	m	m	m	m
wgetn_wstr( )	m	m	m	m	.
wgetnstr( )	m	m	m	m	.
wgetstr( )	m	m	m	m	m
whline( )	m	m	m	m	.
whline_set( )	m	m	m	m	.
win_wch( )	m	m	m	m	.
win_wchnstr( )	m	m	m	m	.
win_wchstr( )	m	m	m	m	.
winch( )	m	m	m	m	m
winchnstr( )	m	m	m	m	.
winchstr( )	m	m	m	m	.
winnstr( )	m	m	m	m	.
winnwstr( )	m	m	m	m	.
wins_nwstr( )	m	m	m	m	.
wins_wch( )	m	m	m	m	.
wins_wstr( )	m	m	m	m	.
winsch( )	m	m	m	m	m
winsdelln( )	m	m	m	m	.
winsertln( )	m	m	m	m	m
winsnstr( )	m	m	m	m	.
winsstr( )	m	m	m	m	.
winstr( )	m	m	m	m	.
winwstr( )	m	m	m	m	.
wmove( )	m	m	m	m	m
wnoutrefresh( )	m	m	m	m	m
wprintw( )	m	m	m	m	m
wredrawln( )	m	m	m	m	.
wrefresh( )	m	m	m	m	m
wscanw( )	m	m	m	m	m
wscrl( )	m	m	m	m	.
wsetscrreg( )	m	m	m	m	m
wstandend( )	m	m	m	m	m
wstandout( )	m	m	m	m	m
wsyncdown( )	m	m	m	m	.

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
wsyncup( )	m	m	m	m	.
wtimeout( )	m	m	m	m	.
wtouchln( )	m	m	m	m	.
wunctrl( )	m	m	m	m	.
wvline( )	m	m	m	m	.
wvline_set( )	m	m	m	m	.

Headers

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
<curses.h>	m	m	m	m	m
<term.h>	m	m	m	m	.
<unctrl.h>	m	m	m	m	m

Utilities

Note that the *tput* entry here is for the fully-specified *tput* utility in , not the minimally-specified *tput* utility in XCU, Issue 7, which has an entry in the table in Chapter 8 (on page 27).

Interface	SUSv4	UNIX 03	UNIX 98	UNIX 95	Curses 3
infocmp	m	.	.	.	.
tic	m	.	.	.	.
tput	m	.	.	.	.
untic	m	.	.	.	.

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