This is an extract from:

A Source Book from The Open Group

The Authorized Guide to the Single UNIX Specification, Version 3

The Open Group

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OGSpecs@opengroup.org

System Interface Table

This chapter contains a table of all the interfaces defined in XSH, Issue 6, complete with an indication of their status for UNIX 03 (denoted by U03), POSIX 1003.1-2001 (denoted by POSIX Base), and their availability in UNIX 98 (denoted by U98), UNIX 95 (denoted by U95), IEEE Std 1003.1-1996 (POSIX.1) (denoted P96), IEEE Std 1003.2-1992 (POSIX.2) (denoted P92), the ISO C standard (denoted C99), C 89, SVID, Issue 3 (denoted by SVID3) and BSD 4.3 (denoted BSD). 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.
- 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 Base column, two or three letter option codes are used as described in Portability Codes, denoting the option to which the interface belongs.
- r In the P96 column, this indicates that the interface is part of the POSIX Realtime Extension.
- t In the P96 column, this indicates that the interface is part of the POSIX Threads Extension.
- 1 In the C89 column this indicates that the interface is part of the ISO/IEC 9899: 1990 standard.
- 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 3. Products that brand to a profile may not provide all of the interfaces listed, depending on which Option or Feature Groups are supported.

There are 1123 interfaces listed.

Interface			POSIX			P96				
FD_ISSET()	Interface	U03		U98	U95			C89	SVID3	BSD
FD_ISSET()	FD CLR()	m	m	m	m					
FD_SET() m m m m m m m c. 		m	m	m	m					
		m	m	m	m					
_exit()		m	m	m	m					
_exit()	_	m	m				m			
_longjmp()		m	m	m	m	m			m	m
_setjmp()		m	xsi	m	m					m
		m	xsi	m	m					m
	1 = • • • · · ·	m	xsi	m	m				m	
a64I() m xsi m m . . m . . m m . . . m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<		m	xsi	m	m				m	
abort() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m </td <td> = '' ''</td> <td>m</td> <td>xsi</td> <td>m</td> <td>m</td> <td></td> <td></td> <td></td> <td>m</td> <td></td>	= '' ''	m	xsi	m	m				m	
abs() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td></td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td>		m	m	m	m	m	m	m	m	m
accept() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<		m	m	m	m	m	m	m	m	m
access() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<		m	m	m	m					m
acos() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td></td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td></td> <td></td> <td>m</td> <td>m</td>		m	m	m	m	m			m	m
acosf() m m m </td <td></td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td>		m	m	m	m	m	m	m	m	m
acosh() m m m m m m m m m m m m m m m m m m m m m m m m m n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n </td <td></td> <td>m</td> <td>m</td> <td></td> <td></td> <td></td> <td>m</td> <td></td> <td></td> <td>. </td>		m	m				m			.
acoshf() m m m . . . m <		m	m	m	m		m		m	m
acoshl() m m m <		m	m				m			
acosl() m m m </td <td></td> <td>m</td> <td>m</td> <td></td> <td></td> <td></td> <td>m</td> <td></td> <td></td> <td></td>		m	m				m			
aio_error() 0 aio 0 . r <		m	m				m			
aio_error() 0 aio 0 . r <	aio cancel()	0	aio	0		r				
aio_read() 0 aio 0 . r <t< td=""><td></td><td>0</td><td>aio</td><td>0</td><td></td><td>r</td><td></td><td></td><td></td><td></td></t<>		0	aio	0		r				
aio_read() 0 aio 0 . r <t< td=""><td></td><td>0</td><td>aio</td><td>0</td><td></td><td>r</td><td></td><td></td><td></td><td></td></t<>		0	aio	0		r				
aio_suspend() 0 aio 0 . r 		0	aio	0		r				
aio_write() 0 aio 0 . r <	aio_return()	0	aio	0		r				
alarm() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m </td <td>aio_suspend()</td> <td>0</td> <td>aio</td> <td>0</td> <td></td> <td>r</td> <td></td> <td></td> <td></td> <td></td>	aio_suspend()	0	aio	0		r				
asctime() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m	aio_write()	0	aio	0		r				
asctime_r() m tsf m t <	alarm()	m	m	m	m	m			m	m
asin() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td>asctime()</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td>	asctime()	m	m	m	m	m	m	m	m	m
asinf() m m m . . . m 	asctime_r()	m	tsf	m		t				
asinh() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m </td <td>asin()</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td>	asin()	m	m	m	m	m	m	m	m	m
asinhf() m m m . . . m <		m	m				m			
asinhl() m m . . . m <	asinh()	m	m	m	m		m		m	m
asinhl() m m . . . m <	asinhf()	m	m				m			
assert() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<	asinhl()	m	m				m			
atan() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td></td> <td>m</td> <td>m</td> <td></td> <td></td> <td></td> <td>m</td> <td></td> <td></td> <td></td>		m	m				m			
atan2() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m </td <td>assert()</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td> <td>m</td>	assert()	m	m	m	m	m	m	m	m	m
atan2f() m m m . . . m <	atan()	m	m	m	m	m	m	m	m	m
atan2f() m m m . . . m <	atan2()	m	m	m	m	m	m	m	m	m
atan2I() m m m <	atan2f()	m	m				m	-		.
atanf() m m . . . m m m m m m m m </td <td>atan2I()</td> <td>m</td> <td>m</td> <td></td> <td></td> <td></td> <td>m</td> <td></td> <td></td> <td> . </td>	atan2I()	m	m				m			.
atanh() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m </td <td>atanf()</td> <td>m</td> <td>m</td> <td> . </td> <td></td> <td></td> <td>m</td> <td></td> <td></td> <td> . </td>	atanf()	m	m	.			m			.
atanhf() m m m	atanh()	m	m	m	m		m		m	m
	atanhf()	m	m				m	-		.
		m	m				m			.

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
atanl()	m	m				m			
atexit()	m	m	m	m		m	m	m	
atof()	m	m	m	m	m	m	m	m	m
atoi()	m	m	m	m	m	m	m	m	m
atol()	m	m	m	m	m	m	m	m	m
atoll()	m	m				m			
basename()	m	xsi	m	m					
bcmp()	1	xsi	m	m					m
bcopy()	1	xsi	m	m					m
bind()	m	m	m	m					m
bsd_signal()	ob	xsi	m	m					
bsearch()	m	m	m	m	m	m	m	m	
btowc()	m	m	m			m	1		
bzero()	1	xsi	m	m				-	m
cabs()	m	m				m			
cabsf()	m	m				m			
cabsl()	m	m				m			•
cacos()	m	m				m		•	
cacosf()	m	m	•			m		•	•
cacosh()	m	m			Ċ	m		•	•
cacoshf()	m	m				m		•	•
cacoshl()	m	m				m			•
cacosi()	m	m	•			m			•
calloc()	m	m	m	m	m	m	m	m	m
carg()	m	m				m			
cargf()	m	m				m			•
cargl()	m	m			Ċ	m		•	•
casin()	m	m		i i		m		•	•
casinf()	m	m				m		•	•
casinh()	m	m				m			•
casinhf()	m	m				m		•	•
casinhl()	m	m				m		•	•
casinI()	m	m	•		i.	m		•	•
catan()	m	m			i i	m		•	
catanf()	m	m	•	·	·	m	•	•	•
catanh()	m	m	•	•		m	•	•	•
catanhf()	m	m	•	•		m	•	•	•
catanhl()	m	m	•	·		m		•	•
catanl()	m	m	•	•		m		•	•
catclose()	m	xsi	m	m			•	m	.
catgets()	m	xsi	m	m	•	•	•	m	
catopen()	m	xsi	m	m	•		•	m	•
cbrt()	m	m	m	m	•	m		m	m
cbrt()	m	m		111	•	m	•	111	111
cbrt() cbrtl()	m	m	•	•	•	m	•	•	•
ccos()	m		•	•	•		•		•
	111	m	•	•	•	m	•	•	•

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
ccosf()	m	m				m			
ccosh()	m	m				m			
ccoshf()	m	m				m			
ccoshl()	m	m				m			
ccosl()	m	m				m		-	
ceil()	m	m	m	m	m	m	m	m	m
ceilf()	m	m				m		-	
ceill()	m	m				m		-	
cexp()	m	m				m			
cexpf()	m	m				m			
cexpl()	m	m				m			
cfgetispeed()	m	m	m	m	m			m	
cfgetospeed()	m	m	m	m	m			m	
cfsetispeed()	m	m	m	m	m			m	
cfsetospeed()	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		-	
cimagf()	m	m				m		-	
cimagl()	m	m				m			
clearerr()	m	m	m	m	m	m	m	m	m
clock()	m	m	m	m		m	m	m	
clock_getcpuclockid()	0	cpt							
clock_getres()	0	tmr	0		r				
clock_gettime()	0	tmr	0		r				
clock_nanosleep()	0	cs							
clock_settime()	0	tmr	0		r				
clog()	m	m				m			
clogf()	m	m				m		-	
clogl()	m	m				m		-	
close()	m	m	m	m	m			m	m
closedir()	m	m	m	m	m	-	-	m	m
closelog()	m	xsi	m	m		-	-		m
confstr()	m	m	m	m	m	-	-		
conj()	m	m				m	-		
conjf()	m	m				m	-		
conjl()	m	m				m			
connect()	m	m	m	m					m
copysign()	m	m				m			
copysignf()	m	m	-			m			
copysignI()	m	m				m			
cos()	m	m	m	m	m	m	m	m	m
cosf()	m	m				m			
cosh()	m	m	m	m	m	m	m	m	m
coshf()	m	m				m		-	

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
coshl()	m	m				m			
cosl()	m	m				m			
cpow()	m	m				m			
cpowf()	m	m				m			
cpowl()	m	m				m			
cproj()	m	m				m			
cprojf()	m	m				m			
cprojl()	m	m				m			
creal()	m	m				m			
crealf()	m	m				m			
creall()	m	m				m			
creat()	m	m	m	m	m			m	m
crypt()	0	xsi	0	0				m	m
csin()	m	m				m			
csinf()	m	m				m		•	
csinh()	m	m				m			
csinhf()	m	m				m			
csinhl()	m	m				m			
csinl()	m	m				m			
csqrt()	m	m				m			
csqrtf()	m	m				m		•	
csqrtl()	m	m				m			
ctan()	m	m				m			
ctanf()	m	m				m			
ctanh()	m	m				m			
ctanhf()	m	m				m			-
ctanhl()	m	m				m			-
ctanl()	m	m				m			
ctermid()	m	m	m	m	m	-	-	m	
ctime()	m	m	m	m	m	m	m	m	m
ctime_r()	m	tsf	m	-	t				.
daylight	m	xsi	m	m				m	
dbm_clearerr()	m	xsi	m	m					
dbm_close()	m	xsi	m	m					
dbm_delete()	m	xsi	m	m					
dbm_error()	m	xsi	m	m					
dbm_fetch()	m	xsi	m	m					-
dbm_firstkey()	m	xsi	m	m					
dbm_nextkey()	m	xsi	m	m					
dbm_open()	m	xsi	m	m					
dbm_store()	m	xsi	m	m					
difftime()	m	m	m	m		m	m	m	
dirname()	m	xsi	m	m					
div()	m	m	m	m		m	m	m	
dlclose()	m	xsi	m						
dlerror()	m	xsi	m						-

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
dlopen()	m	xsi	m						
dlsym()	m	xsi	m						.
drand48()	m	xsi	m	m				m	.
dup()	m	m	m	m	m			m	m
dup2()	m	m	m	m	m			m	m
ecvt()	1	xsi	m	m					m
encrypt()	0	xsi	0	0				m	m
endgrent()	m	xsi	m	m				m	m
endhostent()	m	m	m	m					m
endnetent()	m	m	m	m					m
endprotoent()	m	m	m	m				_	m
endpwent()	m	xsi	m	m				m	m
endservent()	m	m	m	m				_	m
endutxent()	m	xsi	m	m				_	.
environ	m	m	m	m	m		_	m	m
erand48()	m	xsi	m	m		_		m	
erf()	m	m	m	m		m		m	m
erfc()	m	m	m	m		m	_	m	m
erfcf()	m	m				m			
erfcl()	m	m				m			
erff()	m	m				m			
erfl()	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
exp()	m	m	m	m	m	m	m	m	m
exp2()	m	m				m			
exp2f()	m	m				m		•	
exp2I()	m	m				m			
expf()	m	m	•	·	•	m	·	•	
expl()	m	m		·	•	m		•	-
expm1()	m	m	m	m		m		•	m
expm1f()	m	m				m		•	'''
expm1I()	m	m	•	•		m		•	•
fabs()	m	m	m	m	m	m	m	m	m
fabsf()	m	m	'''			m			'''
fabsi()	m	m		•		m	•	•	•
fattach()	0	xsr	m	m	•	'''	•	m	•
fchdir()	m	xsi	m	m	•	•	•	m	•
fchmod()	m	m ASI	m	m	•	•	•	m	m
fchimod() fchown()	m	m	m	m	•	•	•	m	m
TOTOWIT()	111	111	111	111	•	-	•	111	111

		POSIX			P96				
Interface	U03	Base	U98	U95	P92		C89	SVID3	BSD
fclose()	m	m	m	m	m	m	m	m	m
fcntl()	m	m	m	m	m			m	m
fcvt()	1	xsi	m	m					m
fdatasync()	О	sio	0		r				
fdetach()	О	xsr	m	m				m	
fdim()	m	m				m		_	
fdimf()	m	m				m		_	
fdiml()	m	m				m			
fdopen()	m	m	m	m	m			m	m
feclearexcept()	m	m		_		m		_	
fegetenv()	m	m		_		m		_	_
fegetexceptflag()	m	m				m		_	
fegetround()	m	m				m			
feholdexcept()	m	m				m		-	
feof()	m	m	m	m	m	m	m	m	m
feraiseexcept()	m	m				m			
ferror()	m	m	m	m	m	m	m	m	m
fesetenv()	m	m				m			
fesetexceptflag()	m	m			•	m	•	•	•
fesetround()	m	m		•	•	m	•	•	•
fetestexcept()	m	m		•	•	m	•	•	•
feupdateenv()	m	m		•	•	m	•	-	•
fflush()	m	m	m	m	m	m	m	m	m
ffs()	m	xsi	m	m					m
fgetc()	m	m	m	m	m	m	m	m	m
fgetpos()	m	m	m	m		m	m	m	•••
fgets()	m	m	m	m	m	m	m	m	m
fgetwc()	m	m	m	m		m	1	111	
fgetws()	m	m	m	m	•	m	1		•
fileno()	m	m	m	m	m			m	m
flockfile()	m	tsf	m		t		•		
floor()	m	m		m .		m	m	m m	m
floorf()	m	m	m	m	m	m	m	m	m
floor()				•	•	m	•	•	•
	m	m		•	•	m	•	•	•
fma() fmaf()	m	m		•	•	m	•	•	•
fmal()	m	m	•	•	•	m	•	-	•
fmov()	m	m	•	•	•	m	•	-	•
fmax()	m	m		•	•	m	•	-	•
fmaxf()	m	m		-	-	m	-		
fmaxl()	m	m		-	-	m	-		
fmin()	m	m		-		m	-		
fminf()	m	m		•	•	m	•		•
fminl()	m	m				m			•
fmod()	m	m	m	m	m	m	m	m	•
fmodf()	m	m			•	m	•	-	•
fmodl()	m	m				m			

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
fmtmsg()	m	xsi	m	m			_	m	_
fnmatch()	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	
fpclassify()	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	1		
fputws()	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							
freopen()	m	m	m	m	m	m	m	m	m
frexp()	m	m	m	m	m	m	m	m	m
frexpf()	m	m				m			'''
frexpl()	m	m	•	•	•	m	•		-
fscanf()	m	m	m	m	m	m	m	m	m
fseek()	m	m	m	m	m	m	m	m	m
fseeko()	m	m	m						'''
fsetpos()	m	m	m	m	•	m	m	m	
fstat()	m	m	m	m	m			m	m
fstatvfs()	m	xsi	m	m		•	•	m	'''
fsync()	m	fsc	m	m	•	•	•	m	m
ftell()	m	m	m	m	m	m	m	m	m
ftello()	m	m	m					111	'''
ftime()	'''	xsi	m	m	•	•	•	•	m
ftok()	m	xsi	m	m	•	•	•	•	'''
ftruncate()	m	m	m	m	•	•	•	•	
ftrylockfile()	m	tsf	m		t	•	•	•	
ftw()	m	xsi	m	m		•	•	m	•
funlockfile()	m	tsf	m		t	•	•		
fwide()	m	m	m	•		m	1	•	•
fwprintf()	m	m	m	•	•	m	1	•	
fwrite()	m	m	m	m	m	m	m	m	m
fwscanf()	m	m	m	111		m	1	111	'''
gai_strerror()	m	m		•	•	111	'	-	•
gcvt()	1	xsi	m	m	•	•	•		m
getaddrinfo()	m	m		111	•	•	•	-	'''
getaddiiino() getc()	m m	m	m	m	m	m	m	m	m
getc_unlocked()		tsf	m		t			111	111
getc_uniocked() getchar()	m m	m	m	m	m	m	m	m	m
getchar() getchar_unlocked()		tsf	m		t	111		111	'''
getcontext()	m	xsi		m	ι	-		m m	.
getcontext() getcwd()	m		m	m	m	•		m	•
gelowa()	m	m	m	m	m	•	•	m	•

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
getdate()	m	xsi	m	m				m	
getdate_err	m	xsi	m	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	m				m	m
getgrgid()	m	m	m	m	m			m	m
getgrgid_r()	m	tsf	m		t				
getgrnam()	m	m	m	m	m			m	
getgrnam_r()	m	tsf	m		t				
getgroups()	m	m	m	m	m			m	m
gethostbyaddr()	ob	ob	m	m					m
gethostbyname()	ob	ob	m	m	_	_		_	m
gethostent()	m	m	m	m		_		_	m
gethostid()	m	xsi	m	m	_	_		_	m
gethostname()	m	m	m	m				-	m
getitimer()	m	xsi	m	m				m	m
getlogin()	m	m	m	m	m			m	m
getlogin_r()	m	tsf	m		t				
getmsg()	0	xsr	m	m		_		m	
getnameinfo()	m	m			-	-			
getnetbyaddr()	m	m	m	m	_	_		_	m
getnetbyname()	m	m	m	m				-	m
getnetent()	m	m	m	m				-	m
getopt()	m	m	m	m	m	· -		m	m
getpeername()	m	m	m	m		_			m
getpgid()	m	xsi	m	m		_		m	
getpgrp()	m	m	m	m	m	_		m	m
getpid()	m	m	m	m	m			m	m
getpmsg()	0	xsr	m	m				m	
getppid()	m	m	m	m	m	· -		m	m
getpriority()	m	xsi	m	m		_			m
getprotobyname()	m	m	m	m				_	m
getprotobynumber()	m	m	m	m				-	m
getprotoent()	m	m	m	m				-	m
getpwent()	m	xsi	m	m		· -		m	m
getpwnam()	m	m	m	m	m	_		m	m
getpwnam_r()	m	tsf	m		t	_			
getpwuid()	m	m	m	m	m			m	m
getpwuid_r()	m	tsf	m	···	t				
getrlimit()	m	xsi	m	m	`			m	m
getrusage()	m	xsi	m	m					m
gets()	m	m	m	m	m	m	m	m	m
getservbyname()	m	m	m	m					m
getservbyname()	m	m	m	m	•	•			m
goldon voyport()	111		111	111	•	•	· .	•	111

	Т	POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
getservent()	m	m	m	m					m
getsid()	m	xsi	m	m	•	•	·	m	
getsockname()	m	m	m	m	•	•			m
getsockopt()	m	m	m	m	•	•		-	m
getsubopt()	m	xsi	m	m	•	•	•	m	
gettimeofday()	m	xsi	m	m	•	•	•	m	m
getuid()	m	m	m	m	m	•		m	m
getutxent()	m	xsi	m	m					
getutxid()	m	xsi	m	m	•	•			
getutxline()	m	xsi	m	m	•	•	•		•
getwc()	m	m	m	m	•	m	1	•	
getwc() getwchar()	1 1	m	m	m	•		1	•	
getwcnar() getwd()	m I	xsi	m	m	•	m	'	•	· m
glob()						•		•	m
	m	m m	m	0	m	•	•	•	
globfree() gmtime()	m	m	m	0	m				
• (,	m	m tof	m	m	m	m	m	m	m
gmtime_r()	m	tsf	m		t	•	•		•
grantpt()	m	xsi	m	m	•	•	•	m	
h_errno	ob	ob			•	•			
hcreate()	m	xsi	m	m	•	•	•	m	•
hdestroy()	m	xsi	m	m	•	•		m	-
hsearch()	m	xsi	m	m	•	•	•	m	•
htonl()	m	m	m	m	•	•	•	•	m
htons()	m	m	m	m	•	•	•	-	m
hypot()	m	m	m	m		m		m	m
hypotf()	m	m		•		m			-
hypotl()	m	m _.				m		-	
iconv()	m	xsi	m	m				-	
iconv_close()	m	xsi	m	m		•		•	
iconv_open()	m	xsi	m	m			-	-	
if_freenameindex()	m	m					-	-	
if_indextoname()	m	m							
if_nameindex()	m	m							
if_nametoindex()	m	m							
ilogb()	m	m	m	m		m		•	
ilogbf()	m	m				m			-
ilogbl()	m	m				m			
imaxabs()	m	m				m			
imaxdiv()	m	m				m			
index()	1	xsi	m	m					m
inet_addr()	m	m	m	m	-				m
inet_ntoa()	m	m	m	m					m
inet_ntop()	m	m							
inet_pton()	m	m							
	m	xsi	m	m					m
initstate()		,,,,,,					-		

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
ioctl()	0	xsr	m	m				m	m
isalnum()	m	m	m	m	m	m	m	m	m
isalpha()	m	m	m	m	m	m	m	m	m
isascii()	m	xsi	m	m				m	m
isastream()	0	xsr	m	m				m	
isatty()	m	m	m	m	m			m	m
isblank()	m	m				m			
iscntrl()	m	m	m	m	m	m	m	m	m
isdigit()	m	m	m	m	m	m	m	m	m
isfinite()	m	m	•••			m			
isgraph()	m	m	m	m	m	m	m	m	m
isgreater()	m	m	•••	•••		m			
isgreaterequal()	m	m	•	•		m	•	•	•
isinf()	m	m	•	•	•	m	•	•	•
isless()	m	m	•	•	•	m	•	•	•
islessequal()	m	m	•	•	•	m	•	•	•
islessgreater()	m	m	•	•	•	m	•	•	-
islower()	m	m	m	m	m	m	m	m	m
isnan()	m	m	m	m				m	
isnormal()	m	m	111		•	m	•		•
isprint()	m	m	m	m	m	m	m	m	m
ispunct()	m	m	m	m	m	m	m	m	m
isspace()	m	m	m	m	m	m	m	m	
isunordered()	m	m	111			m			m
isupper()	m	m	m	m	· m	m	· m	m	m m
iswalnum()	m	m	m	m	m	m	m 1	1111	m
iswalpha()		m			•		1	•	•
iswblank()	m m	m	m	m	•	m		•	•
iswcntrl()	m	m	m	m	•	m m	1	•	•
iswctype()	m	m	m m	m	-	m	1		•
iswdigit()	m	m	m	m		m	1	-	
iswgraph()	m	m	m	m		m	1	-	-
iswlower()	m	m	m	m		m	1	-	-
iswprint()	m	m	m	m		m	1	-	
iswpunct()	m		m	m		m	1	-	
iswspace()	m	m m	m	m	•		1	•	•
iswupper()	m	m	m	m	•	m	1	-	•
iswxdigit()	m	m	m	m		m m	1	-	•
isxdigit()					m .			m m	m ·
isxiigh() j0()	m m	m xsi	m m	m m	m	m	m	m m	m
j0() j1()	m	xsi	m	m		-		m	m m
		xsi				-			
jn() jrand48()	m	xsi	m	m		•	•	m	m
jranu46() kill()	m	m M	m	m m	m	-	-	m	m ·
kiii() killpg()	m	xsi	m		m	-		m	m
Kilipg() 164a()	m		m	m	•	•	•	· m	m
10 4 a()	m	xsi	m	m	-	-	-	m	•

		POSIX			P96				
Interface	U03	Base	U98	U95	P92		C89	SVID3	BSD
labs()	m	m	m	m		m	m	m	_
Ichown()	m	xsi	m	m				m	
Icong48()	m	xsi	m	m				m	
Idexp()	m	m	m	m	m	m	m	m	m
Idexpf()	m	m				m			
Idexpl()	m	m				m			•
Idiv()	m	m	m	m		m	m	m	
Ifind()	m	xsi	m	m				m	
Igamma()	m	m	m	m		m		m	m
Igammaf()	m	m				m			
Igammal()	m	m	•			m		-	•
link()	m	m	m	m	m		•	m	m
lio_listio()	0	aio	0		r		•		
listen()	m	m	m	m			•	•	m
llabs()	m	m	111		•	m	•	•	
Ildiv()	m	m	•	•	•	m	•	-	
Ilrint()	m	m	•	•	•	m	•	•	•
Ilrint()		m	•	•	•		•	•	•
Ilrintl()	m	m	•	•	•	m	•	•	•
Ilround()	m		•	•		m	•	•	•
	m	m	•	•	•	m	•		
	m	m	•	•	•	m	•	-	-
	m	m			•	m			-
localeconv()	m	m	m	m		m	m	m	
localtime()	m	m	m	m	m	m	m	m	m
localtime_r()	m	tsf	m		t		•	•	•
lockf()	m	xsi	m	m				m	
log()	m	m	m	m	m	m	m	m	m
log10()	m	m	m	m	m	m	m	m	m
log10f()	m	m	•	•		m	•		-
log10l()	m	m	•	•		m	•		
log1p()	m	m	m	m		m	•	•	m
log1pf()	m	m	•			m	•	-	-
log1pl()	m	m	•		•	m	•	-	-
log2()	m	m	•		•	m	•	-	-
log2f()	m	m	-	-		m	-	-	-
log2l()	m	m	•			m		-	-
logb()	m	m	m	m		m		m	m
logbf()	m	m				m			
logbl()	m	m				m	•	•	
logf()	m	m	-			m	-	•	-
logl()	m	m	-			m	-	-	-
longjmp()	m	m	m	m	m	m	m	m	m
Irand48()	m	xsi	m	m				m	
Irint()	m	m				m			
Irintf()	m	m				m			
Irintl()	m	m				m			

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
Iround()	m	m				m			
Iroundf()	m	m				m			
Iroundl()	m	m				m		-	
Isearch()	m	xsi	m	m				m	
Iseek()	m	m	m	m	m			m	m
Istat()	m	m	m	m				m	m
makecontext()	m	xsi	m	m					
malloc()	m	m	m	m	m	m	m	m	m
mblen()	m	m	m	m		m	m	m	
mbrlen()	m	m	m			m	1	-	
mbrtowc()	m	m	m			m	1	-	
mbsinit()	m	m	m			m	1	-	
mbsrtowcs()	m	m	m			m	1	-	
mbstowcs()	m	m	m	m		m	m	m	
mbtowc()	m	m	m	m		m	m	m	
memccpy()	m	xsi	m	m				m	
memchr()	m	m	m	m		m	m	m	
memcmp()	m	m	m	m		m	m	m	
memcpy()	m	m	m	m		m	m	m	
memmove()	m	m	m	m		m	m	m	
memset()	m	m	m	m		m	m	m	
mkdir()	m	m	m	m	m			m	m
mkfifo()	m	m	m	m	m			m	
mknod()	m	xsi	m	m				m	m
mkstemp()	m	xsi	m	m					m
mktemp()	1	xsi	m	m				m	m
mktime()	m	m	m	m	m	m	m	m	
mlock()	0	mlr	0		r				
mlockall()	0	ml	0		r				
mmap()	m	mf shm tym	m	m				m	
modf()	m	m	m	m	m	m	m	m	m
modff()	m	m				m		-	
modfl()	m	m				m		-	
mprotect()	m	mpr	m	m				m	
mq_close()	0	msg	0		r			-	
mq_getattr()	0	msg	0		r			-	
mq_notify()	0	msg	0		r				
mq_open()	0	msg	0		r				
mq_receive()	0	msg	0		r				
mq_send()	0	msg	0		r			-	
mq_setattr()	0	msg	0		r			-	
mq_timedreceive()	0	msg							
mq_timedsend()	0	msg							
mq_unlink()	0	msg	0		r				
mrand48()	m	xsi	m	m		-	-	m	-
msgctl()	m	xsi	m	m				m	

Interface		POSIX							
	U03	Base	U98	U95	P96 P92	C99	C89	SVID3	BSD
msgget()	m	xsi	m	m				m	
msgrcv()	m	xsi	m	m				m	
msgsnd()	m	xsi	m	m				m	
msync()	m	mf sio	m	m				m	
munlock()	o	mlr	0		r				
munlockall()	0	ml	0		r				
munmap()	m	mf shm tym	m	m				m	
nan()	m	m				m			
nanf()	m	m				m			
nanl()	m	m				m			
nanosleep()	0	tmr	0		r				
nearbyint()	m	m				m			
nearbyintf()	m	m				m			
nearbyintl()	m	m				m			
nextafter()	m	m	m	m		m		m	
nextafterf()	m	m				m			
nextafterI()	m	m				m			
nexttoward()	m	m				m			
nexttowardf()	m	m				m			
nexttowardl()	m	m				m			
nftw()	m	xsi	m	m				m	
nice()	m	xsi	m	m				m	m
nl_langinfo()	m	xsi	m	m				m	
nrand48()	m	xsi	m	m				m	
ntohl()	m	m	m	m					m
ntohs()	m	m	m	m					m
open()	m	m	m	m	m			m	m
opendir()	m	m	m	m	m			m	m
openlog()	m	xsi	m	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	
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	xsi	m	m				m	
popen()	m	m	m	m	m			m	m
posix_fadvise()	0	adv							
posix_fallocate()	0	adv			.				
posix_madvise()	0	adv	.						
posix_mem_offset()	0	tym							
posix_memalign()	0	adv							
posix_openpt()	m	xsi							

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
posix_spawn()	0	spn							
posix_spawn_file_actions_addclose()	0	spn	1	_	•	_			
posix_spawn_file_actions_adddup2()	0	spn	•	-	•		·		
posix_spawn_file_actions_addopen()	0	spn		_		_	_	_	
posix_spawn_file_actions_destroy()	0	spn	-	-	•	•		•	-
posix_spawn_file_actions_init()	0	spn	-	-	•	•		•	•
posix_spawnattr_destroy()	0	spn	-	-				•	•
posix_spawnattr_getflags()	0	spn	-	_	•	•		•	
posix_spawnattr_getpgroup()	0	spn		•	•	•	•	•	•
posix_spawnattr_getschedparam()	0	spn ps	•	•	•	•	•	•	•
posix_spawnattr_getschedpolicy()	0	spn ps	•	•	•	•	•	•	•
posix_spawnattr_getsinedpolicy() posix_spawnattr_getsigdefault()	0	spn	-	•	•	•	•	•	•
posix_spawnattr_getsigmask()	0	-	•	•	•	•	•	•	•
posix_spawnattr_init()	0	spn	-	•	•	•	•	-	-
posix_spawnattr_setflags()	0	spn	•	•	•	•	•	•	•
posix_spawnattr_setnays() posix_spawnattr_setpgroup()		spn		•	•	•	•	•	•
1	0	spn	-	•	•	•	•	•	•
posix_spawnattr_setschedparam()	0	spn ps	•	•	•	•	•	•	•
posix_spawnattr_setschedpolicy()	0	spn ps	-	•	•	•	•	-	•
posix_spawnattr_setsigdefault()	0	spn	-	-	•	•	•	-	-
posix_spawnattr_setsigmask()	0	spn	-	•	•	•		•	•
posix_spawnp()	0	spn	-	•	•	•	•	•	•
posix_trace_attr_destroy()	0	trc	-	•	•	•	•	•	-
posix_trace_attr_getclockres()	0	trc	-	•	•	•	•	-	•
posix_trace_attr_getcreatetime()	0	trc	-	-	•	-	-	-	-
posix_trace_attr_getgenversion()	0	trc	-					-	-
posix_trace_attr_getinherited()	0	trc tri	-				•	-	
posix_trace_attr_getlogfullpolicy()	0	trc trl	-						
posix_trace_attr_getlogsize()	0	trc trl	-						
posix_trace_attr_getmaxdatasize()	0	trc	-					-	-
posix_trace_attr_getmaxsystemeventsize()	0	trc				•		-	
posix_trace_attr_getmaxusereventsize()	0	trc	-						-
posix_trace_attr_getname()	0	trc	-					-	
posix_trace_attr_getstreamfullpolicy()	0	trc	-						
posix_trace_attr_getstreamsize()	0	trc	-				-		
posix_trace_attr_init()	0	trc							
posix_trace_attr_setinherited()	0	trc tri						-	
posix_trace_attr_setlogfullpolicy()	0	trc trl							
posix_trace_attr_setlogsize()	0	trc trl							
posix_trace_attr_setmaxdatasize()	0	trc						-	
posix_trace_attr_setname()	0	trc							
posix_trace_attr_setstreamfullpolicy()	0	trc							
posix_trace_attr_setstreamsize()	О	trc							
posix_trace_clear()	0	trc							
posix_trace_close()	О	trc trl							
posix_trace_create()	0	trc							
posix_trace_create_withlog()	О	trc trl							

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
posix_trace_event()	0	trc					<u> </u>		
posix_trace_eventid_equal()	0	trc						_	
posix_trace_eventid_get_name()	0	trc		_				_	
posix_trace_eventid_open()	0	trc						_	
posix_trace_eventset_add()	0	trc tef						_	
posix_trace_eventset_del()	0	trc tef				_		_	
posix_trace_eventset_empty()	0	trc tef		_					
posix_trace_eventset_fill()	0	trc tef						_	
posix_trace_eventset_ismember()	О	trc tef						_	
posix_trace_eventtypelist_getnext_id()	О	trc						_	
posix_trace_eventtypelist_rewind()	О	trc						_	.
posix_trace_flush()	О	trc trl						_	.
posix_trace_get_attr()	О	trc							
posix_trace_get_filter()	0	trc tef		_					
posix_trace_get_status()	0	trc						_	
posix_trace_getnext_event()	0	trc			_	_		_	
posix_trace_open()	0	trc trl						_	
posix_trace_rewind()	0	trc trl						_	
posix_trace_set_filter()	0	trc tef						_	
posix_trace_shutdown()	0	trc	-			_		-	
posix_trace_start()	0	trc	-			_		-	
posix_trace_stop()	0	trc	_		· -	_		_	
posix_trace_timedgetnext_event()	0	trc tmo	_		_	_			
posix_trace_trid_eventid_open()	0	trc tef	_			_		-	
posix_trace_trygetnext_event()	0	trc						_	
posix_typed_mem_get_info()	0	tym	-			_		-	
posix_typed_mem_open()	0	tym						_	
pow()	m	m	m	m	m	m	m	m	m
powf()	m	m				m		_	
powl()	m	m				m		_	
pread()	m	xsi	m					-	
printf()	m	m	m	m	m	m	m	m	m
pselect()	m	m						_	.
pthread_atfork()	m	thr	m		t			_	
pthread_attr_destroy()	m	thr	m		t	-		-	
pthread_attr_getdetachstate()	m	thr	m		t	_		-	
pthread_attr_getguardsize()	m	xsi	m		_	_		-	
pthread_attr_getinheritsched()	0	thr tps	0		t	_		_	
pthread_attr_getschedparam()	m	thr	m		t	•		<u> </u>	
pthread_attr_getschedpolicy()	0	thr tps	0	•	t	•		•	
pthread_attr_getscope()	0	thr tps	0	•	t	•			
pthread_attr_getstack()	m	thr tsa tss		•			•		
pthread_attr_getstackaddr()	m	thr tsa	m	•	t	•		•	
pthread_attr_getstacksize()	m	thr tss	m	•	t	•	•	•	
pthread_attr_init()	m	thr	m	•	t	•		•	
pthread_attr_setdetachstate()	m	thr	m		t				
punda_atti_ootdotaonotato()	111	u II		•	_ `	•		•	<u> </u>

		POSIX			P96				
Interface	U03	Base	U98	U95	1	C99	C89	SVID3	BSD
pthread_attr_setguardsize()	m	xsi	m			_	_	_	
pthread_attr_setinheritsched()	0	thr tps	0		t			_	
pthread_attr_setschedparam()	m	thr	m		t	_	_	_	[
pthread_attr_setschedpolicy()	0	thr tps	0	·	t	•	·	•	•
pthread_attr_setscope()	0	thr tps	0	•	t	•	•	•	
pthread_attr_setstack()	m	thr tsa tss		•	,	•	•	•	
pthread_attr_setstackaddr()	m	thr tsa	m	•	t	•	•	•	
pthread_attr_setstacksize()	m	thr tss	m	•	t	•	•	•	•
pthread_barrier_destroy()	0	thr bar		•	١,	•	•	•	
pthread_barrier_init()	0	thr bar		•	•	•	•	•	
pthread_barrier_wait()	0	thr bar	•	•	•	•	•	•	•
pthread_barrierattr_destroy()	_	thr bar	•	•	•	•	•	•	
	0	thr bar tsh		•		•	•	•	•
pthread_barrierattr_getpshared()	0		•	•	•	•	•		•
pthread_barrierattr_init()	0	thr bar				•			
pthread_barrierattr_setpshared()	0	thr bar tsh	•	•			•		-
pthread_cancel()	m	thr	m	•	t	•	•	•	-
pthread_cleanup_pop()	m	thr	m		t	-	-		•
pthread_cleanup_push()	m	thr	m		t		•		-
pthread_cond_broadcast()	m	thr	m		t	•			
pthread_cond_destroy()	m	thr	m		t				
pthread_cond_init()	m	thr	m		t				-
pthread_cond_signal()	m	thr	m		t				-
pthread_cond_timedwait()	m	thr	m		t				-
pthread_cond_wait()	m	thr	m		t				-
pthread_condattr_destroy()	m	thr	m		t				
pthread_condattr_getclock()	0	thr cs							
pthread_condattr_getpshared()	m	thr tsh	m		t				
pthread_condattr_init()	m	thr	m		t				
pthread_condattr_setclock()	О	thr cs							
pthread_condattr_setpshared()	m	thr tsh	m		t				
pthread_create()	m	thr	m		t		_		
pthread_detach()	m	thr	m		t		_		
pthread_equal()	m	thr	m		t	_	_	_	_
pthread_exit()	m	thr	m		t				
pthread_getconcurrency()	m	xsi	m	-	•	-	-		_
pthread_getcpuclockid()	0	thr tct		·	•	•	·	•	
pthread_getschedparam()	0	thr tps	0	·	t	•	·	•	· ·
pthread_getspecific()	m	thr	m	•	t	•	•	•	
pthread_join()	m	thr	m	•	t	•	•	•	
pthread_join() pthread_key_create()	m	thr	m	•	t	•	•	•	•
• ''		thr		•		-	-	•	•
pthread_key_delete()	m		m	•	t +	•	•	•	•
pthread_kill()	m	thr	m	•	t	-	•	•	•
pthread_mutex_destroy()	m	thr	m		t	-	-		•
pthread_mutex_getprioceiling()	0	thr tpp	0		t	•	•	•	•
pthread_mutex_init()	m	thr	m		t	•	•	•	•
pthread_mutex_lock()	m	thr	m		t	-			-

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
pthread_mutex_setprioceiling()	0	thr tpp	0		t	_	_	_	
pthread_mutex_timedlock()	0	thr tmo						_	
pthread_mutex_trylock()	m	thr	m	_	t		_		
pthread_mutex_unlock()	m	thr	m		t		_	_	
pthread_mutexattr_destroy()	m	thr	m		t		_		
pthread_mutexattr_getprioceiling()	0	thr tpp	0	_	t	_	_	_	
pthread_mutexattr_getprotocol()	0	thr tpp tpi	0	_	t		_		
pthread_mutexattr_getpshared()	m	thr tsh	m	_	t		_		
pthread_mutexattr_gettype()	m	xsi	m					_	
pthread_mutexattr_init()	m	thr	m		t	_		_	
pthread_mutexattr_setprioceiling()	0	thr tpp	0		t			_	
pthread_mutexattr_setprotocol()	0	thr tpp tpi	0		t			_	
pthread_mutexattr_setpshared()	m	thr tsh	m		t	_		-	
pthread_mutexattr_settype()	m	xsi	m		_	_		-	
pthread_once()	m	thr	m	·	t	•		-	
pthread_rwlock_destroy()	m	thr	m	•	•	•	•	•	•
pthread_rwlock_init()	m	thr	m	•	•	•	•	•	•
pthread_rwlock_rdlock()	m	thr	m	•	•	•	•		•
pthread_rwlock_timedrdlock()	0	thr tmo		•	•	•	•	•	•
pthread_rwlock_timedwrlock()	0	thr tmo	•	•	•	•	•	•	•
pthread_rwlock_tryrdlock()	m	thr	m	•	•	•	•	•	•
pthread_rwlock_trywrlock()	m	thr	m	•	•	•	•	•	•
pthread_rwlock_unlock()	m	thr	m	•	•	•	•	•	•
pthread_rwlock_wrlock()	m	thr	m	•	•	•	•	•	•
pthread_rwlockattr_destroy()	m	thr	m	•	•	•	•		•
pthread_rwlockattr_getpshared()	m	thr tsh	m	•	•	•	•	•	•
pthread_rwlockattr_init()	m	thr	m	•	•	•	•	•	•
pthread_rwlockattr_setpshared()	m	thr tsh	m	•	•	•	•	•	•
pthread_self()	m	thr	m	•	t	•	•		•
pthread_setcancelstate()	m	thr	m	•	t	•	•	•	•
pthread_setcanceltype()	m	thr	m	•	t	•	•	•	•
pthread_setconcurrency()	m	xsi	m	•		•	•	•	•
pthread_setschedparam()	0	thr tps	0	•	t	•	•	•	•
pthread_setschedprio()	0	thr tps		•	١.	•	•		•
pthread_setspecific()	m	thr	m	•	t	•	•	•	•
pthread_sigmask()	m	thr	m	•	t	•	•	•	•
pthread_signask() pthread_spin_destroy()	0	thr spi		•		•	•	-	•
pthread_spin_destroy() pthread_spin_init()	0	thr spi	•	•	•	•	•	-	•
pthread_spin_lnik() pthread_spin_lock()	0	thr spi	•	•	•	•	•	-	•
pthread_spin_fock() pthread_spin_trylock()	0	thr spi		•	•	•	•		•
pthread_spin_trylock() pthread_spin_unlock()	0	thr spi		•		-	•		•
pthread_spiri_urilock() pthread_testcancel()		thr	m	•	t	-			•
ptsname()	m	u ii xsi	m	m	·	-		m m	•
pisname() putc()	m	m xsi	m	m m	m	m	m	m	m
putc_unlocked()	m	tsf	m	111	m t	m	m	m	m
putc_uniocked() putchar()	m		m	m		m ·	m	m ·	m
puterial ()	m	m	m	m	m	m	m	m	m

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
putchar_unlocked()	m	tsf	m		t				
putenv()	m	xsi	m	m				m	
putmsg()	О	xsr	m	m				m	
putpmsg()	О	xsr	m	m				m	
puts()	m	m	m	m	m	m	m	m	m
pututxline()	m	xsi	m	m					
putwc()	m	m	m	m		m	1		
putwchar()	m	m	m	m		m	1		
pwrite()	m	xsi	m						
gsort()	m	m	m	m	m	m	m	m	m
raise()	m	m	m	m		m	m	m	
rand()	m	m	m	m	m	m	m	m	m
rand_r()	m	tsf	m		t	_		_	_
random()	m	xsi	m	m		_		_	m
read()	m	xsi	m	m	m			m	m
readdir()	m	m	m	m	m	· -		m	m
readdir_r()	m	tsf	m		t	•			
readlink()	m	m	m	m		•	:	m	m
readv()	m	xsi	m	m			:	m	m
realloc()	m	m	m	m	m	m	m	m	m
realpath()	m	xsi	m	m			l		•••
recv()	m	m	m	m	•	•			m
recvfrom()	m	m	m	m		•			m
recvmsg()	m	m	m	m		•		-	m
regcomp()	m	m	m	0	m	•		•	•••
regerror()	m	m	m	0	m	•		•	•
regexec()	m	m	m	0	m	•		•	•
regfree()	m	m	m	0	m	•			•
remainder()	m	m	m	m		m		m	•
remainder()	m	m				m			•
remainderl()	m	m				m	:	-	•
remove()	m	m	m	m	m	m	m	m	
remque()	m	xsi	m	m					m
remquo()	m	m				m		•	
remquof()	m	m		•	•	m		•	•
remquol()	m	m	•	•	•	m		•	•
rename()	m	m	m	m	m	m	m	m	m
revind()	m	m	m	m	m	m	m	m	m
rewind() rewinddir()						111	1111		
rindex()	m	m xsi	m	m	m	-		m	m
rint()			m	m	•	m ·		-	m
rint() rintf()	m	m m	m	m	•	m			m
	m	m m		•	•	m		•	•
rintl()	m	m m		m	m	m		m	
rmdir()	m	m m	m	m	m			m	m
round()	m	m m		•	•	m		-	•
roundf()	m	m	-	•	•	m			

		POSIX			P96				
Interface	U03	Base	U98	U95	1	C99	C89	SVID3	BSD
roundl()	m	m	000		. 02	m	-	01100	
scalb()	ob	xsi	m	m	•		•	m	m
scalbIn()	m	m	111		•	m	•	111	'''
scalbInf()	m	m	•	•	•	m	•	•	-
scalbInI()	m	m		•	•	m	•	•	.
scalbn()	m	m		•	•	m	•	•	
scalbn()	m	m		•	•	m	•	•	•
scalbnl()	m	m		•	•	m	•	•	•
scanf()	m	m	m	m	m	m	m	m	m
sched_get_priority_max()	0	ps	0		r			111	'''
sched_get_priority_min()	0	ps ps	0	•	r	•	•	-	
sched_getparam()	0	ps ps	0	•	r	•	•	-	•
sched_getscheduler()	0	ps ps	0	•	r	•	•	-	.
sched_rr_get_interval()	0	-	0	•	r	•	•		•
sched_rr_get_interval() sched_setparam()	0	ps ps	0	•	r	•	•	•	
sched_setscheduler()	0	ps ps	0	•	r	•	•	-	
sched_yield()	m	ps ps thr	m	•	r	•	•	•	
seed48()	m	xsi xsi	m	m		•	•	m	
seekdir()	m	XSI	m	m	•	•	•	m	· m
select()	m	m	m	m	•	•	•	111	m
sem_close()			0	111		•	•	•	m
sem_close() sem_destroy()	0	sem		•	r	•	•	•	
	0	sem	0	•	r	•	•	•	-
sem_getvalue() sem_init()	0	sem	0	•	r	•	•		
sem_open()	0	sem	0	•	r	•	•	•	•
sem_post()	0	sem	0	•	r	•	•	•	
sem_timedwait()	0	sem sem tmo	0	•	r	•	•	•	
()	0			•		•	•	•	-
sem_trywait()	0	sem	0	•	r	•	•	•	-
sem_unlink()	0	sem	0	•	r	•	•	•	-
sem_wait()	0	sem	0		r	•	•	m	-
semctl()	m	xsi	m	m	•	•	•	m	-
semget() semop()	m	xsi	m	m	•	•	•	m	-
	m	xsi	m	m	•	•	•	m	
send()	m	m	m	m	•	•	•	•	m
sendmsg()	m	m m	m	m	•	•	•	•	m
sendto() setbuf()	m	m	m	m				m	m
	m	m voi	m	m	m	m	m	m	m
setcontext()	m	xsi	m	m	•	•	•	m	-
setegid()	m	m m		•	•	•	•	-	•
setenv()	m	m m		•	•	•	•	-	
seteuid()	m	m m				•	•	m	m
setgid()	m	m voi	m	m	m	•	•	m	m
setgrent()	m	xsi	m	m		-	•	m	m
sethostent()	m	m voi	m	m		-	•	m	m
setitimer()	m	xsi	m	m				m	m
setjmp()	m	m	m	m	m	m	m	m	m

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
setkey()	0	xsi	0	0				m	m
setlocale()	m	m	m	m	m	m	m	m	
setlogmask()	m	xsi	m	m				-	m
setnetent()	m	m	m	m				-	m
setpgid()	m	m	m	m	m			m	
setpgrp()	m	xsi	m	m				m	m
setpriority()	m	xsi	m	m					m
setprotoent()	m	m	m	m				-	m
setpwent()	m	xsi	m	m				m	m
setregid()	m	xsi	m	m				-	m
setreuid()	m	xsi	m	m				-	m
setrlimit()	m	xsi	m	m				m	m
setservent()	m	m	m	m				-	m
setsid()	m	m	m	m	m			m	
setsockopt()	m	m	m	m				-	m
setstate()	m	xsi	m	m				-	m
setuid()	m	m	m	m	m			m	m
setutxent()	m	xsi	m	m					
setvbuf()	m	m	m	m		m	m	m	
shm_open()	0	shm	0		r			-	
shm_unlink()	0	shm	0		r				
shmat()	m	xsi	m	0				m	
shmctl()	m	xsi	m	0				m	
shmdt()	m	xsi	m	0				m	
shmget()	m	xsi	m	0				m	
shutdown()	m	m	m	m				-	m
sigaction()	m	m	m	m	m			m	
sigaddset()	m	m	m	m	m			m	
sigaltstack()	m	xsi	m	m				m	
sigdelset()	m	m	m	m	m			m	
sigemptyset()	m	m	m	m	m			m	
sigfillset()	m	m	m	m	m	-		m	
sighold()	m	xsi	m	m				m	
sigignore()	m	xsi	m	m				m	
siginterrupt()	m	xsi	m	m					m
sigismember()	m	m	m	m	m			m	
siglongjmp()	m	m	m	m	m			m	
signal()	m	m	m	m		m	m	m	m
signbit()	m	m				m		-	
signgam	m	xsi						m	
sigpause()	m	xsi	m	m				m	m
sigpending()	m	m	m	m	m			m	
sigprocmask()	m	thr	m	m	m			m	
sigqueue()	0	rts	0		r				
sigrelse()	m	xsi	m	m			-	m	
sigset()	m	xsi	m	m				m	

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
sigsetjmp()	m	m	m	m	m			m	
sigsuspend()	m	m	m	m	m			m	•
sigtimedwait()	0	rts	0		r				
sigwait()	m	m	m		t		•	•	
sigwaitinfo()	0	rts	0		r		•	•	•
sin()	m	m	m	m	m	m	m	m	m
sin()	m	m				m			
sinh()	m	m	m	m	m	m	m	m	m
sinhf()	m	m				m			
sinhl()	m	m	•	•	•	m	•	•	•
sini()	m	m	•	•	•	m	•	•	•
sin() sleep()	m	m	m	m	m		•	m	m
sneep() snprintf()	m	m	m		111	m	•		111
sockatmark()		m	111	•	•	m	•	•	•
socket()	m		· m	· 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	•	-	•
sgrt()	m	m				m			
srand()	m	m	m	m	m	m	m	m	m
srand48()	m	xsi	m	m	•	•	•	m	
srandom()	m	xsi	m	m					m
sscanf()	m	m	m	m	m	m	m	m	m
stat()	m	m :	m	m	m	•	•	m	m
statvfs()	m	xsi	m	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
strcasecmp()	m	xsi	m	m	•	•	•		
strcat()	m	m	m	m	m	m	m	m	m
strchr()	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	
strcpy()	m	m	m	m	m	m	m	m	m
strcspn()	m	m _.	m	m	m	m	m	m	
strdup()	m	xsi	m	m				m	
strerror()	m	m	m	m		m	m	m	
strerror_r()	m	tsf	•		•	•			
strfmon()	m	xsi	m	0			-		
strftime()	m	m	m	m	m	m	m	m	
strlen()	m	m	m	m	m	m	m	m	m
strncasecmp()	m	xsi	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

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
strpbrk()	m	m	m	m	m	m	m	m	
strptime()	m	xsi	m	О					
strrchr()	m	m	m	m	m	m	m	m	
strspn()	m	m	m	m	m	m	m	m	
strstr()	m	m	m	m	m	m	m	m	
strtod()	m	m	m	m		m	m	m	
strtof()	m	m				m			
strtoimax()	m	m				m			
strtok()	m	m	m	m	m	m	m	m	
strtok_r()	m	tsf	m		t				
strtol()	m	m	m	m		m	m	m	
strtold()	m	m				m			
strtoll()	m	m				m			
strtoul()	m	m	m	m		m	m	m	
strtoull()	m	m				m			
strtoumax()	m	m				m			
strxfrm()	m	m	m	m		m	m	m	
swab()	m	xsi	m	m				m	m
swapcontext()	m	xsi	m	m					
swprintf()	m	m	m			m	1		
swscanf()	m	m	m			m	1		
symlink()	m	m	m	m				m	m
sync()	m	xsi	m	m				m	m
sysconf()	m	m	m	m	m			m	
syslog()	m	xsi	m	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			
tanh()	m	m	m	m	m	m	m	m	m
tanhf()	m	m				m			
tanhl()	m	m				m			
tanl()	m	m				m			
tcdrain()	m	m	m	m	m			m	
tcflow()	m	m	m	m	m			m	
tcflush()	m	m	m	m	m			m	
tcgetattr()	m	m	m	m	m			m	
tcgetpgrp()	m	m	m	m	m			m	
tcgetsid()	m	xsi	m	m				m	
tcsendbreak()	m	m	m	m	m			m	
tcsetattr()	m	m	m	m	m			m	
tcsetpgrp()	m	m	m	m	m			m	.
tdelete()	m	xsi	m	m				m	.
telldir()	m	xsi	m	m				m	m
tempnam()	m	xsi	m	m				m	.
tfind()	m	xsi	m	m				m	
tgamma()	m	m				m		-	

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
tgammaf()	m	m				m		_	
tgammal()	m	m				m			
time()	m	m	m	m	m	m	m	m	m
timer_create()	0	tmr	0		r			_	
timer_delete()	0	tmr	0		r	_	_	_	
timer_getoverrun()	0	tmr	0		r	_	_	-	
timer_gettime()	0	tmr	0		r	_	_	-	
timer_settime()	0	tmr	0		r	_		-	
times()	m	m	m	m	m			m	m
timezone	m	xsi	m	m				m	
tmpfile()	m	m	m	m	m	m	m	m	
tmpnam()	m	m	m	m	m	m	m	m	
toascii()	m	xsi	m	m				m	m
tolower()	m	m	m	m	m	m	m	m	m
toupper()	m	m	m	m	m	m	m	m	m
towctrans()	m	m	m			m	1		'''
towarding()	m	m	m	m	•	m	1	-	
towwwer() towupper()	m	m	m	m	•	m	1	-	
trunc()	m	m	'''		•	m	•	-	•
truncate()	m	xsi	m	m	•		•		m
truncf()	m	m			•	m	•	•	'''
truncl()	m	m	•	•	•	m	•	-	
tsearch()	m	xsi	m	m	•	111	•	m	-
ttyname()	m	m M	m	m	m	•	•	m	m
ttyname_r()	m	tsf	m		t	•	•		'''
twalk()	m	xsi	m	m		•	•	m	
tzname	m	xsi	m	m	m	•	•	m	
tzset()	m	xsi	m	m	m	•	•	m	•
ualarm()	ob	xsi	m	m		•	•		m
ulimit()	m	xsi	m	m	•	•	•	m	'''
umask()	m	m	m	m	m	•	•	m	m
uname()	m	m	m	m	m	•	•	m	'''
ungetc()	m	m	m	m	m	m	m	m	m
ungetwc()	m	m	m	m		m	1		
unlink()	m		m	m	m	111		m	m .
unlockpt()		m xsi			111	•	•		m
unsetenv()	m m	m M	m	m	•	•	•	m	
unsetenv() usleep()	ob	xsi	m	m m	•	•	•	•	m
			m	m	· m	•	•	m	m
utime() utimes()	m I	m xsi	m	m	m	•	•	m	m
1	_		m	m		•	•		m
va_arg()	m	m m	•	•	•	•	•	•	•
va_copy() va_end()	m	m m	•	•	•	•	•	-	
	m	m m	•	•	•	•	•	-	
va_start()	m	m voi			•	•	•	-	m
vfork()	ob	xsi	m	m		•	•	m	m
vfprintf()	m	m	m	m		•	•	m	•

		POSIX			P96				
Interface	U03	Base	U98	U95		C99	C89	SVID3	BSD
vfscanf()	m	m				m			
vfwprintf()	m	m	m			m	1		
vfwscanf()	m	m				m			
vprintf()	m	m	m	m		m	m	m	
vscanf()	m	m				m			
vsnprintf()	m	m	m			m			
vsprintf()	m	m	m	m		m	m	m	
vsscanf()	m	m				m			
vswprintf()	m	m	m			m	1		
vswscanf()	m	m				m			
vwprintf()	m	m	m			m	1		
vwscanf()	m	m				m			
wait()	m	m	m	m	m			m	m
waitid()	m	xsi	m	m				m	
waitpid()	m	m	m	m	m			m	m
wcrtomb()	m	m	m			m	1	_	
wcscat()	m	m	m	m		m	1	_	
wcschr()	m	m	m	m		m	1		
wcscmp()	m	m	m	m		m	1	_	
wcscoll()	m	m	m	0		m	1	_	
wcscpy()	m	m	m	m		m	1		
wcscspn()	m	m	m	m		m	1	_	
wcsftime()	m	m	m	o		m	1	_	
wcslen()	m	m	m	m		m	1	_	
wcsncat()	m	m	m	m		m	1	_	
wcsncmp()	m	m	m	m		m	1	_	
wcsncpy()	m	m	m	m		m	1	_	
wcspbrk()	m	m	m	m		m	1		
wcsrchr()	m	m	m	m		m	1		
wcsrtombs()	m	m	m			m	1		
wcsspn()	m	m	m	m		m	1		
wcsstr()	m	m	m			m	1		
wcstod()	m	m	m	m		m	1		
wcstof()	m	m				m			
wcstoimax()	m	m				m			
wcstok()	m	m	m	m		m	1	-	
wcstol()	m	m	m	m		m	1	-	
wcstold()	m	m				m			
wcstoll()	m	m				m			
wcstombs()	m	m	m	m		m	m	m	
wcstoul()	m	m	m	m		m	1		
wcstoull()	m	m				m			
wcstoumax()	m	m				m			
wcswcs()	1	xsi	m	m					
wcswidth()	m	xsi	m	m					
wcsxfrm()	m	m	m	0		m	1		

		POSIX			P96				
Interface	U03	Base	U98	U95	P92	C99	C89	SVID3	BSD
wctob()	m	m	m			m	1		
wctomb()	m	m	m	m		m	m	m	•
wctrans()	m	m	m			m	1		
wctype()	m	m	m	m		m	1	-	
wcwidth()	m	xsi	m	m				-	-
wmemchr()	m	m	m			m	1	-	-
wmemcmp()	m	m	m			m	1	-	-
wmemcpy()	m	m	m			m	1		
wmemmove()	m	m	m			m	1		
wmemset()	m	m	m			m	1		
wordexp()	m	m	m	0	m				
wordfree()	m	m	m	0	m				
wprintf()	m	m	m			m	1		
write()	m	xsi	m	m	m			m	m
writev()	m	xsi	m	m				m	m
wscanf()	m	m	m			m	1		
<i>y0</i> ()	m	xsi	m	m				m	m
y1()	m	xsi	m	m				m	m
<i>yn</i> ()	m	xsi	m	m				m	m

Utilities Interface Table

This chapter lists all the utilities described in XCU, Issue 6, and indicates what other specifications support the interfaces. The U03 column indicates UNIX 03.

The following conventions are used in columns 2 through 8:

- **m** Indicates that the interface is defined as mandatory.
- opt In the POSIX Base column, two or three letter option codes are used as described in Portability Codes, denoting the option to which the interface belongs.
- **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).
- Indicates that the interface is optional.
- 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 3.

There are 160 utilities listed.

		POSIX					
Interface	U03	Base	UNIX 98	UNIX 95	POSIX.2-92	SVID 3	4.3BSD
admin	d	xsi	d	d		m	
alias	m	up	m	m	m		m
ar	m	sd	m	m	0	m	m
asa	m	FR	m	m	0		
at	m	up	m	m	m	m	m
awk	m	m	m	m	m	m	m
basename	m	m	m	m	m	m	m
batch	m	up	m	m	m	m	
bc	m	m	m	m	m		m
bg	m	up	m	m	m		m
c99	m	cd					
cal	m	xsi	m	m		m	m
cat	m	m	m	m	m	m	m
cd	m	m	m	m	m	m	m
cflow	d	xsi	d	d		m	
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		
стр	m	m	m	m	m	m	m
comm	m	m	m	m	m	m	m
command	m	up	m	m	m		
compress	m	xsi	m	m		m	m
ср	m	m	m	m	m	m	m
crontab	m	up	m	m	m	m	_
csplit	m	up	m	m	m	m	
ctags	m	up	d	d	m	m	m
cut	m	m	m	m	m	m	_
cxref	d	xsi	d	d		m	
date	m	m	m	m	m	m	m
dd	m	m	m	m	m	m	m
delta	d	xsi	d	d		m	
df	m	up	m	m	m	m	m
diff	m	m	m	m	m	m	m
dirname	m	m	m	m	m	m	
du	m	up	I	m	m	m	m .
echo	m	m	m	m	m	m	m
ed	m	m	m	m	m	m	m
env	m	m	m	m	m	m	
ex	m	up	m	m	m	m	m .
expand	m	up	m	m	m		m m
expr	m	m	m	m	m	m	m m
false	m	m	m	m	m	m	m m
fc	m	up	m	m	m		m
fg	m	up	m	m	m	•	m
file	m	up	m	m	m	m	m
	111	чρ	111	111	111	111	'''

		POSIX					
Interface	U03	Base	UNIX 98	UNIX 95	POSIX.2-92	SVID 3	4.3BSD
find	m	m	m	m	m	m	m
fold	m	m	m	m	m		m
fort77	0	fd	0	f	0		
fuser	m	xsi	m				
gencat	m	xsi	m	m	-		
get	d	xsi	d	d		m	
getconf	m	m	m	m			
getopts	m	m	m	m			
grep	m	m	m	m	m	m	m
hash	m	xsi	m	m			m
head	m	m	m	m	m	m	m
iconv	m	m	m	m			
id	m	m	m	m	m	m	
ipcrm	m	xsi	m				
ipcs	m	xsi	m				
jobs	m	up	m	m	m		m
join	m	m	m	m	m	m	m
kill	m	m	m	m	m	m	m
lex	d	cd	d	d	0	m	m
link	m	xsi	m				m
In	m	m	m	m	m	m	m
locale	m	m	m	m	m		
localedef	m	m	m	m	m		
logger	m	m	m	m	m		m
logname	m	m	m	m	m	m	
lp	m	m	m	m	m	m	
İs	m	xsi	m	m	m	m	m
m4	d	xsi	d	d		m	m
mailx	m	m	m	m	m	m	
make	m	sd	d	d	m	m	m
man	m	m	m	m	m		m
mesg	m	up	m	m	m	m	m
mkdir	m	m	m	m	m	m	m
mkfifo	m	m	m	m	m		
more	m	up	m	m	m	m	m
mv	m	m	m	m	m	m	m
newgrp	m	up	m	m	m	m	
nice	m	up	m	m	m	m	m
nl	m	m	m	m		m	
nm	m	up	d	d	m	m	m
nohup	m	m	m	m	m	m	
od	m	m	m	m	m	m	m
paste	m	m	m	m	m	m	
patch	m	up	m	m	m		m
pathchk	m	m	m	m	m		
pax	m	m	m	m	m		

		POSIX					
Interface	U03	Base	UNIX 98	UNIX 95	POSIX.2-92	SVID 3	4.3BSD
pr	m	m	m	m	m	m	m
printf	m	m	m	m	m	m	
prs	d	xsi	d	d		m	
ps	m	up	m	m	m	m	m
pwd	m	m	m	m	m	m	m
qalter	0	be		-	2d		
qdel	0	be		-	2d		
qhold	0	be		-	2d		
qmove	0	be		-	2d		
qmsg	0	be			2d	-	
qrerun	0	be	-	_	2d		
qrls	0	be			2d		
qselect	0	be			2d		
qsig	0	be			2d		
qstat	О	be			2d		
, qsub	О	be		_	2d	-	
read	m	m	m	m	m		m
renice	m	up	m	m	m	_	m
rm	m	m	m	m	m	m	m
rmdel	d	xsi	d	d		m	
rmdir	m	m	m	m	m	m	m
sact	d	xsi	d	d		m	
sccs	d	xsi	d	d			m
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	up	m	m	m	m	m
strings	m	up	m	m	m		m
strip	m	sd	d	d	0	m	m
stty	m	m	m	m	m	m	m
tabs	m	up	m	m	m	m	m
tail	m	m	m	m	m	m	m
talk	m	up	m	m	m		m
tee	m	m	m	m		m	m
test	m	m	m	m	m	m	m
time	m	up	m	m	m	m	m
touch	m	m	m	m	m	m	m
tput	m	up	m	m	m		m
tr	m	m	m	m	m	m	m
true	m	m	m	m	m	m	m
tsort	m	xsi	m	m		m	m
tty	m	m	m	m	m	m	m
type	m	xsi	m	m			m
ulimit	m	XSi	m	m	•	•	m
umask	m	m	m	m	m	m	
	111	111	111	111	111	111	•

		POSIX					
Interface	U03	Base	UNIX 98	UNIX 95	POSIX.2-92	SVID 3	4.3BSD
unalias	m	up	m	m	m		m
uname	m	m	m	m	m	m	
uncompress	m	xsi	m	m		m	
unexpand	m	up	m	m	m		
unget	d	xsi	d	d		m	.
uniq	m	m	m	m	m	m	m
unlink	m	xsi	m	-			m
ииср	m	xsi	m	m		m	m
uudecode	m	up	m	m	m	m	m
uuencode	m	up	m	m	m	m	m
uustat	m	xsi	m	m		m	.
uux	m	xsi	m	m		m	m
val	d	xsi	d	d		m	
vi	m	up	m	m	m	m	m
wait	m	m	m	m	m	m	m
WC	m	m	m	m	m	m	m
what	d	xsi	d	d		m	m
who	m	up	m	m	m	m	m
write	m	up	m	m	m	m	m
xargs	m	m	m	m	m	m	
yacc	d	cd	d	d	0	m	m
zcat	m	xsi	m	m	-	m	

Utilities Interface Table

Headers Interface Table

This chapter lists all the headers described in XBD, Issue 6, complete with an indication of their status for the XSI extension, the POSIX Base, and their availability in UNIX 98, UNIX 95, IEEE Std 1003.1-1996 (POSIX.1) (denoted P96), IEEE Std 1003.2-1992 (POSIX.2) (denoted P92), the ISO C standard (denoted C99), and C 89. The following conventions are used in columns 2 through 8:

- **m** Indicates that the interface is defined as mandatory.
- **o** Indicates that the interface is part of an Option or Feature Group.
- opt In the POSIX Base column, two or three letter option codes are used as described in Portability Codes, denoting the option to which the interface belongs.
- r In the P96 column, this indicates that the interface is part of the POSIX Realtime Extension.
- t In the P96 column, this indicates that the interface is part of the POSIX Threads Extension.
- In the C89 column, this indicates that the interface is part of the ISO/IEC 9899: 1990 standard.
- Indicates that the interface is not specified.

		POSIX					
Interface	XSI	Base	UNIX 98	UNIX 95	P96 P92	C99	C89
<aio.h></aio.h>	0	aio	0		r	-	
<arpa inet.h=""></arpa>	m	m	m	m			
<assert.h></assert.h>	m	m	m	m		m	m
<complex.h></complex.h>	m	m		-		m	
<cpio.h></cpio.h>	m	xsi	m	m			
<ctype.h></ctype.h>	m	m	m	m		m	m
<dirent.h></dirent.h>	m	m	m	m	m		
<dlfcn.h></dlfcn.h>	m	xsi	m				
<errno.h></errno.h>	m	m	m	m	m	m	m
<fcntl.h></fcntl.h>	m	m	m	m	m		
<fenv.h></fenv.h>	m	m				m	
<float.h></float.h>	m	m	m	m	m	m	m
<fmtmsg.h></fmtmsg.h>	m	xsi	m	m	m		
<fnmatch.h></fnmatch.h>	m	m	m	m	m	-	
<ftw.h></ftw.h>	m	xsi	m	m			
<glob.h></glob.h>	m	m	m	m	m		
<grp.h></grp.h>	m	m	m	m	m		
<iconv.h></iconv.h>	m	xsi	m	m			
<inttypes.h></inttypes.h>	m	m	m			m	
<iso646.h></iso646.h>	m	m	m			m	1
<langinfo.h></langinfo.h>	m	xsi	m	m			
dibgen.h>	m	xsi	m	m			
	m	m	m	m	m	m	m
<locale.h></locale.h>	m	m	m	m	m	m	m
<math.h></math.h>	m	m	m	m	m	m	m
<monetary.h></monetary.h>	m	xsi	m	m		-	
<mqueue.h></mqueue.h>	0	msg	0		r	-	
<ndbm.h></ndbm.h>	m	xsi	m	m		-	
<net if.h=""></net>	m	m	m	m			
<netdb.h></netdb.h>	m	m	m	m	m		
<netinet in.h=""></netinet>	m	m	m	m	m		
<netinet tcp.h=""></netinet>	m	m	m	m	m		
<nl_types.h></nl_types.h>	m	xsi	m	m	-		
<poll.h></poll.h>	m	m	m	m	•		
<pthread.h></pthread.h>	m	thr	m	-	t	-	
<pwd.h></pwd.h>	m	m	m	m	m	-	-
<regex.h></regex.h>	m	m	m	m	m	-	
<sched.h></sched.h>	0	ps	0		r	-	
<search.h></search.h>	m	xsi	m	m	-		
<semaphore.h></semaphore.h>	0	sem	0		r		
<setjmp.h></setjmp.h>	m	m	m	m	m	m	m
<signal.h></signal.h>	m	m	m	m	m	m	m
<spawn.h></spawn.h>	0	spn	•			•	
<stdarg.h></stdarg.h>	m	m	m	m	m	m	m
<stdbool.h></stdbool.h>	m	m	m	m	m	m	
<stddef.h></stddef.h>	m	m	m	m	m	m	m

		POSIX					
Interface	XSI	Base	UNIX 98	UNIX 95	P96 P92	C99	C89
<stdint.h></stdint.h>	m	m			_	m	
<stdio.h></stdio.h>	m	m	m	m	m	m	m
<stdlib.h></stdlib.h>	m	m	m	m	m	m	m
<string.h></string.h>	m	m	m	m	m	m	m
<strings.h></strings.h>	m	xsi	m	m	-		
<stropts.h></stropts.h>	m	xsr	m	m			
<sys ipc.h=""></sys>	m	xsi	m	m			
<sys mman.h=""></sys>	m	m	m	m	m		
<sys msg.h=""></sys>	m	xsi	m	m			
<sys resource.h=""></sys>	m	xsi	m	m			.
<sys select.h=""></sys>	m	m	m	m			
<sys sem.h=""></sys>	m	xsi	m	m	m		
<sys shm.h=""></sys>	m	xsi	m	m	-		
<sys socket.h=""></sys>	m	m	m	m	-		
<sys stat.h=""></sys>	m	m	m	m	m		
<sys statvfs.h=""></sys>	m	xsi	m	m	m	-	
<sys time.h=""></sys>	m	m	xsi	m	-	-	
<sys timeb.h=""></sys>	m	xsi	m	m	-		
<sys times.h=""></sys>	m	m	m	m	m	-	
<sys types.h=""></sys>	m	m	m	m	m		
<sys uio.h=""></sys>	m	xsi	m	m	-		
<sys un.h=""></sys>	m	xsi	m	m	•		
<sys utsname.h=""></sys>	m	m	m	m	m	•	
<sys wait.h=""></sys>	m	m _.	m	m	m		
<syslog.h></syslog.h>	m	xsi	m	m	-	-	
<tar.h></tar.h>	m	m	m	m	m	-	
<termios.h></termios.h>	m	m	m	m	m		
<tgmath.h></tgmath.h>	m	m			-	m	
<time.h></time.h>	m	m	m	m	-	m	m
<trace.h></trace.h>	0	trc			-		
<ucontext.h></ucontext.h>	m	xsi	m	m	•	•	•
<ulimit.h></ulimit.h><unistd.h></unistd.h>	m	xsi	m	m m		•	
<unista.n></unista.n>	m	m m	m m	m m	m m	•	•
	m	m voi	m m	m m	m	-	.
<utmpx.h></utmpx.h>	m	xsi	m m	m m	•		.
<wctar.n></wctar.n>	m	m	m m	m m	•	m	1 1
	m	m m	m m	m m	· m	m	'
<wordexp.h></wordexp.h>	m	m	m	m m	m		

Headers Interface Table

XCURSES Interface Table

This chapter contains a table of all the interfaces defined in X/Open Curses, Issue 4, Version 2, complete with an indication of their availability for the Single UNIX Specification and UNIX 03 (denoted by UNIX 03), and their availability in UNIX 98, UNIX 95, POSIX.1, POSIX.2, the ISO C standard, SVID 3, and 4.3BSD. The XCURSES interfaces are not specified for the POSIX base in IEEE Std 1003.1-2001.

The following conventions are used in columns 2 through 8:

- **m** Indicates that the interface is defined as mandatory.
- . 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 3.

There are 372 interfaces listed, and in addition XCURSES defines three headers: <curses.h>, <term.h>, and <unctrl.h>.

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95	POSIX.2	Standard	SVID 3	4.3BSD
add_wch()	m	m	m				
add_wchnstr()	m	m	m				
add_wchstr()	m	m	m	•	•		
addch()	m	m	m	•	-	m	
addchnstr()	m	m	m		-	m	
addchstr()	m	m	m		-	m	
addnstr()	m	m	m		-	m	
addnwstr()	m	m	m		-		
addstr()	m	m	m			m	
addwstr()	m	m	m				
attr_get()	m	m	m	•			
attr_off()	m	m	m	•			
attr_on()	m	m	m	•			
attr_set()	m	m	m	•			
attroff()	m	m	m	•		m	
attron()	m	m	m			m	
attrset()	m	m	m	•		m	
baudrate()	m	m	m	•		m	
beep()	m	m	m			m	
bkgd()	m	m	m			m	
bkgdset()	m	m	m	-		m	

				POSIX.1/	ISO C		
Interface	UNIX 03	I INIIV OO	UNIX 95	POSIX.1/	Standard	SVID 3	4 2DCD
				PUSIA.2	Stanuaru	3410.3	4.3630
bkgrnd()	m	m	m	•	•	•	•
bkgrndset()	m	m	m	•	-		
border()	m	m	m	•	-	m	•
border_set()	m	m	m		-		
box()	m	m	m		•	m	•
box_set()	m	m	m	•	-		
can_change_color()	m	m	m	•	-	m	•
chgat()	m	m	m	•	-		•
clear()	m	m	m		-	m	•
clearerr()	m	m	m	m	m	m	m
clearok()	m	m	m		-	m	
clrtobot()	m	m	m		-	m	•
cIrtoeol()	m	m	m			m	
color_content()	m	m	m		•		
color_set()	m	m	m		-		
copywin()	m	m	m			m	
curs_set()	m	m	m			m	
def_prog_mode()	m	m	m			m	
def_shell_mode()	m	m	m			m	
del_curterm()	m	m	m			m	
delay_output()	m	m	m			m	
delch()	m	m	m			m	
deleteln()	m	m	m			m	
delscreen()	m	m	m			m	
delwin()	m	m	m			m	
derwin()	m	m	m			m	
dupwin()	m	m	m			m	
echo()	m	m	m			m	
echo_wchar()	m	m	m				
echochar()	m	m	m		_	m	
endwin()	m	m	m	_	_	m	_
erase()	m	m	m			m	_
erasechar()	m	m	m			m	_
erasewchar()	m	m	m	-	-		-
filter()	m	m	m	•	•	m	•
flash()	m	m	m	•	•	m	•
flushinp()	m	m	m	•	-	m	•
get_wch()	m	m	m	•	-		•
get_wstr()	m	m	m	•	•	•	•
getbegyx()	m	m	m	•		m	•
getbkgd()				•	•	111	•
	m m	m m	m m	•	•	•	•
getbkgrnd()	m	m	m	•	•	· m	-
getmaxyx()	m	m	m	•	•	m	•
getn_wstr()	m	m	m				
getparyx()	m	m	m	•	•	m	•
getstr()	m	m	m	•	•	m	•

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95			SVID 3	4.3BSD
getwin()	m	m	m	_		_	_
getyx()	m	m	m			m	-
halfdelay()	m	m	m	_	_	m	_
has_colors()	m	m	m			m	-
has_ic()	m	m	m	•	•	m	-
has_il()	m	m	m	•	•	m	-
hline()	m	m	m	•	•		-
hline_set()	m	m	m	•	•	-	•
idcok()	m	m	m	•	•	m	•
idlok()	m	m	m	•	•	m	•
ilogb()	m	m	m	•	•	•••	•
immedok()	m	m	m	•	•	m	•
in_wch()	m	m	m	-	-		•
in_wch() in_wchnstr()	m	m	m	•	•	•	•
in_wchstr()	m	m	m	•	•	•	•
inch()	m	m	m	•	•	m	•
inch()	m	m	m	-	•	m	•
inchstr()	m	m	m	•	•	m	-
init color()		m		-	-		•
init_color() init_pair()	m		m	•	•	m	•
init_pair() initscr()	m	m	m	•	•	m	•
innstr()	m	m	m	•	•	m	•
innwstr()	m	m	m	•	•	m	•
ins_nwstr()	m	m	m	•	•	•	•
` '	m	m	m	•	•	•	•
ins_wch()	m	m	m	•	•	•	•
ins_wstr()	m	m	m	•	•		•
insch()	m	m	m	•	•	m	•
insdelln()	m	m	m		•	m	•
insertIn()	m	m	m		•	m	•
insnstr()	m	m	m	•	•	m	•
insstr()	m	m	m	•	•	m	•
instr()	m	m	m	•	•	m	-
intrflush()	m	m	m	•	•	m	•
inwstr()	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	•	•	•	
keyname()	m	m	m	•	•	m	•
keypad()	m	m	m		•	m	-
killchar()	m	m	m				
killwchar()	m	m	m		•		
leaveok()	m	m	m			m	
longname()	m	m	m			m	
meta()	m	m	m			m	
move()	m	m	m			m	

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95			SVID 3	4.3BSD
mvadd_wch()	m	m	m				_
mvadd_wchnstr()	m	m	m				
mvadd_wchstr()	m	m	m			-	-
mvaddch()	m	m	m	-	-	m	_
mvaddchnstr()	m	m	m	•	•	m	•
mvaddchstr()	m	m	m	•	•	m	•
mvaddnstr()	m	m	m	•	•	m	•
mvaddnwstr()	m	m	m	•	•		•
mvaddstr()	m	m	m	•	•	m	•
mvaddwstr()	m	m	m	•	•	•••	•
mvchgat()	m	m	m	•	•	•	•
mvcur()	m	m	m	-	-	m	•
mvdelch()	m	m	m	•	•	m	•
mvderwin()	m	m	m	•	•	m	•
mvget_wch()	m	m	m	•	•	111	•
mvget_wstr()	m	m	m	•	•	•	•
mvgetch()	m	m	m	•	•	m	•
mvgetn_wstr()	m	m	m	•	•	1111	•
mvgetnstr()				•	•	m m	•
•	m	m	m	•	•	m	•
mvgetstr() mvhline()	m	m	m	•	•	•	•
* * * * * * * * * * * * * * * * * * * *	m	m	m	•	•	-	•
mvhline_set()	m	m	m	•	•		•
mvin_wch()	m	m	m	•	•		•
mvin_wchnstr()	m	m	m	•	•		
mvin_wchstr()	m	m	m	-	-		•
mvinch()	m	m	m	-	-	m	•
mvinchnstr()	m	m	m	•		m	
mvinchstr()	m	m	m	•		m	
mvinnstr()	m	m	m	•	•	m	•
mvinnwstr()	m	m	m			-	
mvins_nwstr()	m	m	m			-	
mvins_wch()	m	m	m	-	•		-
mvins_wstr()	m	m	m		•		
mvinsch()	m	m	m		•	m	
mvinsnstr()	m	m	m			m	
mvinsstr()	m	m	m	•	•	m	
mvinstr()	m	m	m	•	•	m	
mvinwstr()	m	m	m				
mvprintw()	m	m	m			m	
mvscanw()	m	m	m			m	
mvvline()	m	m	m			-	
mvvline_set()	m	m	m		•		
mvwadd_wch()	m	m	m		•		
<pre>mvwadd_wchnstr()</pre>	m	m	m				
mvwadd_wchstr()	m	m	m				
mvwaddch()	m	m	m			m	

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95			SVID 3	4.3BSD
mvwaddchnstr()	m	m	m	_	_	m	_
mvwaddchstr()	m	m	m		-	m	_
mvwaddnstr()	m	m	m	-	-	m	_
mvwaddnwstr()	m	m	m	-	-		_
mvwaddstr()	m	m	m	_	_	m	_
mvwaddwstr()	m	m	m	_	_		_
mvwchgat()	m	m	m	_	_	_	_
mvwdelch()	m	m	m	-	_	m	_
mvwget_wch()	m	m	m	-	-		_
mvwget_wstr()	m	m	m	- -	_	_	_
mvwgetch()	m	m	m	_	_	m	_
mvwgetn_wstr()	m	m	m	_	_		_
mvwgetnstr()	m	m	m	-	_	_	_
mvwgetstr()	m	m	m	-	_	m	_
mvwhline()	m	m	m	-	-		_
mvwhline_set()	m	m	m			-	-
mvwin()	m	m	m			m	-
mvwin_wch()	m	m	m		_		
mvwin wchnstr()	m	m	m			-	-
mvwin_wchstr()	m	m	m	_	_	_	_
mvwinch()	m	m	m	-	-	m	_
mvwinchnstr()	m	m	m			m	
mvwinchstr()	m	m	m			m	
mvwinnstr()	m	m	m			m	
mvwinnwstr()	m	m	m				
mvwins_nwstr()	m	m	m				
mvwins_wch()	m	m	m				
mvwins_wstr()	m	m	m				
mvwinsch()	m	m	m			m	
mvwinsnstr()	m	m	m			m	
mvwinsstr()	m	m	m			m	
mvwinstr()	m	m	m			m	
mvwinwstr()	m	m	m				
mvwprintw()	m	m	m			m	
mvwscanw()	m	m	m			m	
mvwvline()	m	m	m				
mvwvline_set()	m	m	m				
napms()	m	m	m			m	
newpad()	m	m	m			m	
newterm()	m	m	m			m	
newwin()	m	m	m			m	
nl()	m	m	m			m	
nocbreak()	m	m	m			m	
nodelay()	m	m	m			m	
noecho()	m	m	m			m	
nonl()	m	m	m			m	

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95		Standard	SVID 3	4.3BSD
noqiflush()	m	m	m			m	
noraw()	m	m	m			m	
notimeout()	m	m	m	•	•	m	•
overlay()	m	m	m	•	•	m	•
overwrite()	m	m	m	•	•	m	•
pair_content()	m	m	m	-	-	m	•
pecho_wchar()	m	m	m	•	•		•
pechochar()	m	m	m	•	•	m	•
pnoutrefresh()	m	m	m	•	•	m	•
prefresh()	m	m	m	•	•	m	•
printw()	m	m	m	-	•	m	•
putp()	m	m	m	•	•	m	•
putwin()	m	m		-	-		•
qiflush()			m	•	•	m	•
	m	m	m	•	•	m	•
raw() redrawwin()	m	m	m	•	•	m	•
refresh()	m	m	m		•	m	•
	m	m	m		•	m	•
reset_prog_mode()	m	m	m	•	•	m	•
reset_shell_mode()	m	m	m	•	•	m	•
resetty()	m	m	m	-	-	m	•
restartterm()	m	m	m	•		m	
ripoffline()	m	m	m		•	m	•
savetty()	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	•
scrollok()	m	m	m			m	-
set_curterm()	m	m	m			m	
set_term()	m	m	m		•	m	
setcchar()	m	m	m		•		
setscrreg()	m	m	m			m	
setupterm()	m	m	m			m	
slk_attr_off()	m	m	m				
slk_attr_on()	m	m	m				
slk_attr_set()	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				
slk_init()	m	m	m			m	
slk_label()	m	m	m			m	
slk_noutrefresh()	m	m	m			m	

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95	POSIX.2	Standard	SVID 3	4.3BSD
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				_
standend()	m	m	m			m	_
standout()	m	m	m			m	
start_color()	m	m	m			m	_
stdscr()	m	m	m	-	-	m	
subpad()	m	m	m	•	•	m	-
subwin()	m	m	m	•	•	m	-
syncok()	m	m	m	•	•	m	•
term_attrs()	m	m	m		•		
termattrs()	m	m	m	•	•	m	
termname()	m	m	m	•	•	m	•
tgetent()	m	m	m	•	•	m	•
tgetflag()	m	m	m	-	-	m	•
tgetnum()	m	m	m	•	•	m	•
tgetstr()	m	m	m	•	•	m	•
tgoto()	m	m	m	•	•	m	•
tigetflag()	m	m	m	•	•	m	•
tigetnum()	m	m	m	-	•	m	-
tigetstr()	m	m	m	•	•	m	•
timeout()	m	m	m	•	•	m	•
touchline()	m	m	m	•	•	m	•
touchwin()	m	m	m	•	•	m	•
tparm()	m	m	m	•	•	m	
tputs()	m	m	m	•	•	m	•
typeahead()	m	m	m	•	•	m	•
unctrl()	m	m	m	•	•	m	•
unget_wch()	m	m	m	•	•	111	•
ungetch()	m	m	m	•	•	m	-
untouchwin()	m	m	m	•	•	m	-
use_env()	m	m	m	•	•	m	•
vid_attr()	m	m	m	•	•	""	-
vid_attr() vid_puts()	m	m	m	•	•	•	-
vid_puis() vidattr()	m	m	m	•	•	m	•
vidputs()	m	m	m	•	•	m	•
vline()		m	m	•	•	111	
vline() vline_set()	m m	m	m	•	•		•
vm_printw()		m	m	•			•
vw_printw() vw_scanw()	m m	m	m	•	•	•	•
vw_scarw() vwprintw()	m			•	•	m .	•
vwprintw() vwscanw()	m m	m	m	•	•	m m	•
wadd_wch()	m m	m	m	•	•	m	•
wadd_wchnstr()	m m	m m	m m	•			•
wadu_wchhsu()	m	m	m	•		•	

Interface					POSIX.1/	ISO C		
waddch() m m m <	Interface	LIMIY 03	LIMIV OO	LINIY OF			SVID 3	4 2BCD
waddch() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<					PUSIA.2	Stanuaru	3410.3	4.3630
waddchstr() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td></td><td>•</td></td<>					•	•		•
waddchstr() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td></td><td>-</td></td<>					•	•		-
waddnstr() m m m 					•	•		-
waddnwstr() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td>•</td></td<>					•			•
waddstr() m m m 					•		m	•
waddwstr() m m m 					•		-	•
wattr_get() m m m <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td>m</td><td>•</td></td<>					•		m	•
wattr_off() m m m <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td>•</td></td<>					•			•
wattr_on() m m m 	_				•	-		•
wattroff() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m					•	•	•	-
wattroff() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m					•	•	•	-
wattron() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m		m	m	m	-	-		-
wattrset() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m		m	m	m	•		m	
wbkgd() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m </td <td></td> <td>m</td> <td>m</td> <td>m</td> <td>-</td> <td>-</td> <td>m</td> <td>•</td>		m	m	m	-	-	m	•
wbkgdset() m m m m 	()	m	m	m	-	-	m	-
wbkgrnd() m m m 		m	m	m	•		m	-
wbkgrndset() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <t< td=""><td></td><td>m</td><td>m</td><td>m</td><td>-</td><td>-</td><td>m</td><td></td></t<>		m	m	m	-	-	m	
wborder() m m m m 	, ,	m	m	m	•			-
wborder_set() m m m <		m	m	m	•			
wclgat() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<		m	m	m	•		m	
wclear() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<		m	m	m	-	-	•	
wclrtobot() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td< td=""><td></td><td>m</td><td>m</td><td>m</td><td>•</td><td></td><td></td><td></td></td<>		m	m	m	•			
wclrtoeol() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td< td=""><td></td><td>m</td><td>m</td><td>m</td><td>•</td><td></td><td>m</td><td></td></td<>		m	m	m	•		m	
wcolor_set() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <t< td=""><td>wcIrtobot()</td><td>m</td><td>m</td><td>m</td><td>-</td><td>-</td><td>m</td><td>-</td></t<>	wcIrtobot()	m	m	m	-	-	m	-
wcursyncup() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <t< td=""><td>wcIrtoeol()</td><td>m</td><td>m</td><td>m</td><td></td><td></td><td>m</td><td>-</td></t<>	wcIrtoeol()	m	m	m			m	-
wdelch() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<	wcolor_set()	m	m	m				-
wdeleteIn() m m m m . . m <td< td=""><td>wcursyncup()</td><td>m</td><td>m</td><td>m</td><td>-</td><td>-</td><td>m</td><td></td></td<>	wcursyncup()	m	m	m	-	-	m	
wecho_wchar() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <	wdelch()	m	m	m	•		m	-
wechochar() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m <td< td=""><td>wdeleteln()</td><td>m</td><td>m</td><td>m</td><td>•</td><td></td><td>m</td><td>-</td></td<>	wdeleteln()	m	m	m	•		m	-
werase() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m<	wecho_wchar()	m	m	m	•			-
wget_wch() m m m 	wechochar()	m	m	m			m	
wget_wstr() m m m <td< td=""><td>werase()</td><td>m</td><td>m</td><td>m</td><td></td><td></td><td>m</td><td></td></td<>	werase()	m	m	m			m	
wgetbkgrnd() m m m <t< td=""><td>wget_wch()</td><td>m</td><td>m</td><td>m</td><td></td><td></td><td></td><td></td></t<>	wget_wch()	m	m	m				
wgetch() m m m m . m <	wget_wstr()	m	m	m	•			
wgetch() m m m m . m <	wgetbkgrnd()	m	m	m	•			
wgetnstr() m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m		m	m	m	•		m	-
wgetstr() m m m m m . m . m . m . . m 	wgetn_wstr()	m	m	m				
whline() m m m . . m . . m <	wgetnstr()	m	m	m			m	
whline_set() m m m <t< td=""><td>wgetstr()</td><td>m</td><td>m</td><td>m</td><td>•</td><td></td><td>m</td><td></td></t<>	wgetstr()	m	m	m	•		m	
whline_set() m m m <t< td=""><td>1 0 17</td><td>m</td><td>m</td><td>m</td><td></td><td></td><td>m</td><td></td></t<>	1 0 17	m	m	m			m	
win_wch() m m m 		m	m	m				
win_wchnstr() m m m <								
win_wchstr() m m m winch() m m m . . m 								
<i>winch</i> () m m m m .								
							m	
	winchnstr()	m	m	m			m	

				POSIX.1/	ISO C		
Interface	UNIX 03	UNIX 98	UNIX 95	POSIX.2	Standard	SVID 3	4.3BSD
winchstr()	m	m	m			m	
winnstr()	m	m	m			m	
winnwstr()	m	m	m				
wins_nwstr()	m	m	m				
wins_wch()	m	m	m				
wins_wstr()	m	m	m				
winsch()	m	m	m			m	
winsdelln()	m	m	m	•	•	m	
winsertIn()	m	m	m	•	-	m	
winsnstr()	m	m	m	•	•	m	
winsstr()	m	m	m	•	•	m	
winstr()	m	m	m	•		m	
winwstr()	m	m	m	•	-		
wmove()	m	m	m	•	-	m	
wnoutrefresh()	m	m	m	•	-	m	
wprintw()	m	m	m	•	-	m	
wredrawln()	m	m	m	•	-	m	
wrefresh()	m	m	m	•	-	m	
wscrl()	m	m	m			m	
wsetscrreg()	m	m	m		-	m	
wstandend()	m	m	m		-	m	
wstandout()	m	m	m		-	m	
wsyncdown()	m	m	m			m	
wsyncup()	m	m	m		-	m	
wtimeout()	m	m	m			m	
wtouchln()	m	m	m			m	
wunctrl()	m	m	m	•			
wvline()	m	m	m			m	
wvline_set()	m	m	m				

XCURSES Interface Table