Index

-w suffix	279	AT&T 5320 (example)	255
<curses.h></curses.h>		AT&T 610 (example)	
<term.h></term.h>		attribute	
<unctrl.h></unctrl.h>	236	attroff()	
@		attron()	
XBD specification		attrset()	
relationship to	13	attr_get()	
_w infix		attr_off()	
_XOPEN_SOURCE		attr_on()	
acsc		attr_set()	
add		audible signal	
effect on straddling character	21	automatic margin	
resulting rendition		automatic motion	
add function		auxiliary printer control	
addch()		background	
addchnstr()		background character	
addchstr()		implicit use	
addnstr()		background colour	
addnwstr()		backslash	
addstr()		use in terminfo	238
addwstr()		backslash in terminfo	
add_wch()		backspace	
add_wchnstr()		special processing	21
add_wchstr()		basic capability	
adjustment of cursor position		baud rate, versus printer throughput	
advertised print rate		baudrate()baudrate()	
advisory delay		bce	
alias		Beehive Superbee	
in terminfo	238	beep()	
alternate character set		bel	
line drawing		delays	
alternate keypad		bell	
am		visible	
ignoring linefeed after		bidirectional writing	
ancestor		bkgd()	
Ann Arbor 4080 (example)		bkgdset()	
ANSI foreground/background		bkgrnd()	
ANSI X3.64-1979		bkgrndset()bkgrndset()	
application consideration		blanking text	
area clear		blinkblink	
arrow keys		blinking screen	
asterisk		block cursor	
in terminfo	959	block mode	
AT&T 4410v1		bold	
	261		
line drawing AT&T 470/475		printingboolean capability	
AIQ: 4/U/ 4/J		UUUIEAH (AUAUHH)	

border()	45	cnorm	260
eliminates straddling characters	21	code set	1
border_set()		COLORS	49
box drawing	255	colors	265
box()		color_content()	49 , 59
box_set()	48	COLOR PAIR()	
brightness of character		COLOR_PAIRS	
buffer size		color_set()	
bufsz		colour	
bw		colour manipulation	
C language		COLS	
C.Itoh 8510		cols	
calculating print rate		status line	
			203
can		column	10
can_change_color()		orphaned	
capability of device		COLUMNS	
capability, device	238	in use_env()	206
carriage return		comma	
special processing		after last entry in terminfo	
cbreak()		use in terminfo	
cbt	262	command character	266
CC environment variable	266	comment in terminfo	
ссс	265	Common Usage C	7
change		compilation environment	
affecting subwindow	14	complex character	
change resolution		function naming	
character		Concept (example)	
replacement	19	Concept 100	
resulting rendition		ignoring linefeed after wrap	267
straddling	91	Concept 100 (example)	
character insert/delete		conformance	
character set			J
alternate	000 075	constant	000
	•	line-drawing	
as sub/superscript		conventions, lexical	
line drawing		cookie	
name		coordinate pair	
character spacing		copywin()	
chgat()		cpi	
chr		recalculate resolution after	
recalculate resolution after		cpix	277
chts	260	cpi[x]	270
civis	260	cps	278
clear	255	cr	255
clear screen	255	delays	263
clear to end-of-line	258	crxm	272
clear()		CS7/CS8	
clearok()		csnm	
clipping of window		csr	
clrtobot()		cub	
clrtoeol()		cub1	
cmdch		delays	·
UIIUUI		uciays	

cud	257	del_curterm()	69
cuf	257	depth of input queue	204
cuf1	255	derwin()	
cup	256	description of device	238
current or specified position	26	destructive scrolling	
current or specified window		destructive tab	
current position		device capability	
curscr		device name	
Curses		dialup terminal	
Curses window		Digital LA100, LN03	
cursor		dim	
actual position	19	direct cursor addressing	
analogue in printing terminal		dl	
appearance of		dl1	
cursor addressing		docr	
cursor movement		dot-matrix graphics	
relocation		doupdate()	
within row or column		draft-quality	
cursor position		drawing a box	
at insert/delete		dsl	
curs_set()		dupwin()	
cur_term		EC5, 8-9, 11-12, 16-17, 19-21, 23	
cuu		in <curses.h></curses.h>	
		in <term.h></term.h>	·
cuu1		in <term.n>in <term.n></term.n></term.n>	
cu[b/d/f/u][1]		in addenstr()in addenstr()	
cvr			
recalculate resolution after		in addnwstr()	
cvvis		in add_wch()	
da		in add_wchnstr()	
daisy		in attr_get()	
darkened printing		in bkgd()	
database, terminfo		in bkgrnd()	
Datamedia (example)		in border()	
db		in border_set()	
dch		in box_set()	
dch1		in can_change_color()	
defc		in chgat()	53
definition, sharing		in color_content()	
def_prog_mode()		in COLOR_PAIRS	
def_shell_mode()		in COLS	
delay		in copywin()	
delay_output()		in curscr	
delch()	68	in curs_set()	
delete		in cur_term	
effect on straddling character		in delscreen()	
delete/insert character		in del_curterm()	
delete/insert line		in derwin()	
deleteln()	71	in dupwin()	
deletion	20	in echochar()	
delscreen()	72	in echo_wchar()	
delwin()	73	in erasechar()	82

in filter()	83	in ripoffline()	173
in getbegyx()		in scrl()	
in getbkgd()	88	in scr_dump()	176
in getbkgrnd()	89	in setcchar()	179
in getcchar()	90	in setupterm()	183
in getmaxyx()	93	in set_curterm()	180
in getnstr()	94	in slk_attroff()	184
in getn_wstr()		in start_color()	
in getparyx()		in stdscr	
in getwin()		in subpad()	
in get_wch()		in syncok()	
in get_wstr()		in termattrs()	
in halfdelay()		in termname()	
in has_colors()		in tgetent()	
in hline()		in tigetflag()	
in hline_set()		in timeout()	
in idcok()		in touchline()	
in immedok()		in tparm()	
in inchnstr()		in tputs()	
in init_color()		in ungetch()	
in innstr()		in untouchwin()	
in innwstr()		in use_env()	
in insdelln()		in vidattr()	
in insnstr()		in vline()	
in insstr()		in vline_set()	
in instr()		in vwprintw()	
in ins_nwstr()		in vwscanw()	
in ins_wch()		in vw_printw()	
in ins_wstr()		in vw_scanw()	
in inwstr()		in wunctrl()	
in in_wch()		ech	
in in_wch()		echo()	
in isendwin()		echochar()	
in is_linetouched()		echo_wchar()	
in keyname()		ed	
in killchar()		eighth bit	
in LINES		el	
in meta()		el1	
in mvcur()		empty wide-character string	
in mvderwin()		emulator, terminal	
in napms()		en	
in newpad()		enacs	
in noqiflush()		end-of-line	200
in notimeout()		truncation/wrapping	10
in pair_content()		endwin()	
in pechochar()		enhancement, turn off	
in putp()		enter_ca_mode	200
in putwin()		in tigetflag()	104
in qiflush()		eo	
in redrawwin()		erase character	
in restartterm()		erase to end-of-line	
m restartierin()	112	erase to ena-or-nne	238

erase()	54 , 81	graphics, dot-matrix	
erasechar()	82	graphics, line-drawing	264
erasewchar()	82	half line cursor movement	266
error numbers	11	half-bright character	260
escape in terminfo	252	halfdelay()	104
escape sequence	14	has_colors()	49 , 105
eslok		has_ic()	106
estimating printer throughput	278	has_il()	106
et		Hazeltine	
exit ca mode		hc	255
 in tigetflag()	196	hd	
extra line of screen		header line in terminfo	238
extra-bright character		headers	
ff		Heathkit H19 (example)	
delays		Hewlett-Packard	
filter()		model of colour specification	265
first line in terminfo		Hewlett-Packard 2621	
flag, touched		keypad	262
flash		magic cookie glitch	
delays		Hewlett-Packard 2645 (example)	
flash()		high-order bit, setting	
flashing screen		highlighting	
flow control		hline()	
flushinp()		hline_set()	
foreground colour		hls	
form feed		home	
format of entries		hpa	
format of terminfo		hs	
fsl		ht	
full duplex		hts	
function naming		hu	
generic terminal description		hz	
getbegyx()		ich	
getbkgd()getbkgd()		ich1	
getbkgrnd()		idcok()	
getchar()		idlok()	
getch()		if	
getmaxyx()		il	
getnstr()getnstr()		il1	
getn_wstr()		immedok()	
getparyx()getparyx()		implementation-dependent	
getstr()		inch()	
<u> </u>			
getwin()		inchnstr()	
getyx()		inchstr()	
get_wch()		inddelays	
get_wstr()		delaysindependence of point modes assume	
glitch, magic cookie		independence of print modes assume indn	
glyph			
gn		initc	
grammar		initialisation	
graphic rendition, setting	261	initialisation string	29

initialise a colour-pair	265	kcud1	
initp	265	kcuf1	262
initscr()	115	kcuu1	262
init_color()	49 , 114	kdch1	262
init_pair()	49 , 114	kdl1	262
innstr()	117	ked	262
innwstr()		kel	262
input queue, depth		keyname()	134
insch()		keypad	
insdelln()		keypad()	
insert		key_ prefix	
delay per line	252	key_name()	
effect on straddling character		kf0, kf1, and so on	
resulting rendition		khome	
insert/delete character		khts	
insert/delete line		kich1	
insertion		kil1	
insertln()		kill character	
insnstr()		killchar()	
insstr()		killwchar()	
instr()		kind	
ins nwstr()		kll	
ins_wch()		km	
ins_wstr()		knp	
interfaces	123, 121	kppkpp	
implementation	7	kri	
system		krmir	
use		ktbc	
		last entry in terminfo	
intrflush()		LC_CTYPE	
invis			
invisible text		Lear Siegler ADM-3 (example)	
inwstr()		leaveok()	
in_wch()		left and top edge	
in_wchnstr()		left margin	
in_wchstr()		left-to-right writing	
ip		length of line, effect on print rate	
iprog		letter-quality	
is1, is2, is3		lexical conventions	
isendwin()		lf	
ISO C		lf0, lf1, and so on	
is_linetouched()		lh	
is_wintouched()		line drawing character	
it		line feed	
italic		line graphics	
ka1, ka3		line-drawing constant	
kb2		line/column coordinate	
kbs		LINES	
kc1, kc3		lines	
kclr		LINES	
kctab		in use_env()	
kcub1	262	lines on screen	255

11		position arguments	
lm		mvaddch()	
locale		mvaddchnstr()	
locale-specific		mvaddchstr()	
long name of device		mvaddnstr()	
longname()		mvaddnwstr()	
lpi		mvaddstr()	
recalculate resolution after		mvaddwstr()	
lpix		mvadd_wch()	
lpi[x]		mvadd_wchnstr()	
LSI ADM-3a (example)		mvadd_wchstr()	
lw		mvchgat()	
maddr		mvcur()	144
magic cookie glitch		mvdelch()	
mandatory delay	252	mvderwin()	145
manipulation of window	14	mvgetch()	
manual pages	31	mvgetnstr()	94
format	6	mvgetn_wstr()	96
margin	255, 273	mvgetstr()	94
may	4	mvget_wch()	
mc0, mc4, and so on	267	mvget_wstr()	96
mcs	269	mvhline()	
mcub[1]	271	mvhline_set()	
mcud[1]	271	mvinch()	
mcuf[1]	271	mvinchnstr()	
mcuu[1]	271	mvinchstr()	113
mcu[b/d/f/u][1]	272	mvinnstr()	
media copy string	267	mvinnwstr()	
meta key	140, 267	mvinsch()	
meta()	140	mvinsnstr()	
mgc	263, 274	mvinsstr()	122
mhpa	271	mvinstr()	
reverse motion should not affect	272	mvins_nwstr()	123
Micro-Term ACT-IV (example)	257	mvins_wch()	126
Micro-Term MIME (example)	260	mvins_wstr()	123
mir	259	mvinwstr()	118
mjump	271	mvin_wch()	
mls	269	mvin_wchnstr()	130
modification outside subwindow	21	mvin_wchstr()	130
motion, automatic	274	mvpa	271
move()	141	reverse motion should not affect	272
mrcup	256	mvprintw()	146
msgr	260	mvscanw()	147
enhanced printing		mvvline()	107
multi-byte character		mvvline_set()	
function naming	26	mvw prefix	
multi-column character		mvwaddch()	
multiple character functions		mvwaddchnstr()	
must		mvwaddchstr()	
mv		mvwaddnstr()	
mv prefix		mvwaddnwstr()	

mvwaddstr()		newterm()	
mvwaddwstr()	35	newwin()	74 , 153
mvwadd_wch()	36	nl()	
mvwadd_wchnstr()		nlab	
mvwadd_wchstr()	37	no	155
mvwchgat()	53	nocbreak()	52
mvwdelch()	68	nodelay()	156
mvwgetch()	91	noecho()	77
mvwgetnstr()	94	NOFLSH	128, 157
mvwgetn_wstr()		non-spacing character	17
mvwgetstr()		non-standard terminal	
mvwget_wch()		nonl()	
mvwget_wstr()		noqiflush()	
mvwhline()		noraw()	
mvwhline_set()		notimeout mode	
mvwin()		notimeout()	
mvwinch()		npc	
mvwinchnstr()		npins	
mvwinchstr()		nrrmc	258
mvwinnstr()		in scr_dump()	
mvwinnwstr()		null chtype	
mvwinsch()		null wide-character code	
mvwinsnstr()		numeric capability	
mvwinsstr()		obsolescent	
mvwinstr()		OC	
mvwins_nwstr()		octal specification in terminfo	
mvwins_nwsu() mvwins_wch()		op	
mvwins_wstr()		optimisation	
= **		orc	
mvwinwstr()			
mvwin_wch()		implied change to	
mvwin_wchnstr()		orhi	
mvwin_wchstr()		implied change to	
mvwprintw()		origin	
mvwscanw()		orl	
mvwvline()		implied change to	
mvwvline_set()		orphaned character	
n infix		orphaned column	
name of capability		orvi	269
name of device	279	implied change to	
name space		OS	
X/Open		overlapping	
naming		overlay()	
napms()		overstrike	
ncv		overwrite()	
near-letter-quality		overwriting	
nel		p prefix	
network terminal		pad	
networked asynchronous terminal		functions that use	26
newline		pad character	
special processing	21	padding	238
newpad()	150	padding character	

page eject	266	redrawwin()	168
pairs	265	refresh	14
pair_content()	49 , 160	clears touched flag	14
PAIR_NUMBER()	49 , 160	refresh()	75 , 169
parametrised string	256	relocation of cursor	20
parent window	14 , 281	rendition	17 , 261, 281
patch	266	background	18
pb	263	window	
PC terminal emulator		rendition of character placed in windo	ow22
pechochar()	161	rep	
pecho_wchar()	161	replacing characters	
period in terminfo		resetty()	
Perkin-Elmer Owl (example)		reset_prog_mode()	
pfkey		reset_shell_mode()	
pfloc		resolution	
pfx		resolution, effect of changing	
pln		restartterm()	
pnoutrefresh()		restoring subwindow	
pop-up window		rev	
porder		reverse Polish	
position		reverse-video screen	
current or specified	26	rf	
postfix		rfi	
prefix on function/argument		ri	
prefresh()		right margin	
print quality		right-to-left writing	
printer resolution		rin	
printer resolution		ripoffline()	
printing rate		ritm	
printw()		rlm	
property	140, 103	rmacs	
background	18	rmcup	
rendition		in scr_dump()	
window		rmdc	
proportional delay		rmicm	
proportional printing		rmir	
prot		rmkx	
protected text		rmln	
protocol (xon/xoff)		rmm	
putp()		rmp	
putwin()		rmso	
qiflush()		rmul	
quality of printing		rmxon	
raster graphicsraw()		roundingrow or column cursor addressing	
**		RPN	
rbim			
rcinglygion in tal /fal		rs1, rs2	
inclusion in tsl/fsl		rshm	
resd	2/5	rsubm	
reading subwindow	0.1	rsupm	
effect on straddling character	Z1	rum	272

rwidm	274	slk_attrset()	18 4
sam	272	slk_attr_off()	184
savetty()	171 , 174	slk_attr_on()	18 4
sbim	276	slk_attr_set()	
SC	· ·	slk_clear()	
inclusion in tsl/fsl		slk_color()	
scanw()		slk_init()	
scp	265	slk_label()	18 4
screen	14, 255	slk_noutrefresh()	184
SCREEN	281	slk_refresh()	184
screen blink	260	slk_restore()	184
scrl()	177	slk_set()	184
scroll		slk_touch()	184
effect on straddling character	21	slk_wset()	184
scroll()		slm	272
scrolling	255	smacs	260
scrolling region		smb[b/l/r/t]	273
scrollok()		smcup	
scr_dump()	·	smdc	
scr_init()		smg[b/l/r/t]p	
scr_restore()		smicm	
scr_set()		smir	
SCS		smkx	
scsd		smln	
sdrfq		smm	
search path for TERM		smso	
setab		smul	
setaf		smxon	
setb		snlq	
setcchar()		snrmq	
setf		space	
setscrreg()		use in terminfo	238
settable scrolling region		space character	
setupterm()		resulting rendition	22
set_curterm()		spacing complex character	
set_term()		spacing of characters	
sgr		special keys	
sgr0		special mode	
shadow		special mode of device	
shadowing		speed of printing	
sharing definition in terminfo		spinh	
should		spinv	
signals, relationship to		sshm	
similar terminal		ssubm	
single-byte character		ssupm	
function naming	26	stack in terminfo	
sitm		standend()	
slash		standout mode	
in terminfo	252	standout()	
slk_attroff()		start_color()	
slk_attron()		status line	
<u>-</u> , ,			

stdscr	14 , 188	tgetstr()	194
straddling character	21	tgoto()	194
string capability	238	throughput	278
string, parametrised	256	tigetflag()	196
subcs	274	tigetnum()	196
subpad()	150 , 189	tigetstr()	196
subscript	274	tilde, inability to display	267
characters available		timeout()	
subwin()		top and left edge	
overview		touch	
subwindow		touched	
character straddling border		touchline()	
sum		touchwin()	
supcs		tparm()	
superscript		tputs()	
characters available		truncation	
swidm		tsl	
switch		TVI 912 (example)	
synchronous terminal		typeahead	
syncok()		discarding	Q
system interfaces		typeahead()	
tab		uc	
		ul	
delays			
expansion		unctrl()	
special processing		undefined	
use in terminfo		underline cursor	
tab stop		underlining	
tbc	262	ungetch()	
Tektronix	005	unget_wch()	204
model of colour specification	265	uniqueness of terminfo aliases	
Tektronix 4025		unspecified	
command character		untouchwin()	133 , 205
Tektronix 4025 (example)	257	update	
Teleray		sets touched flag	
destructive tab		use	
Teleray 1061 (example)	260	user preference for use of device	
TERM		use_env()	
in initscr()		variability in print rate	278
termattrs()	192	variable-width font	268
terminal	15	vertical bar	
terminal emulator	265	use in terminfo	238
terminal-independence	1, 237	vi	
terminfo	237	use of terminfo	237
TERMINFO	279	vidattr()	207
terminfo		video attribute	16
format	238	video enhancement, turn off	260
terminology		vidputs()	
termname()		vid_attr()	
tgetent()		vid_puts()	
tgetflag()		virtual terminal	
tgetnum()		visible bell	
			

vline()	,	werase()	
vline_set()	108 , 210	wgetbkgrnd()	
vpa		wgetch()	
vt	266	wgetnstr()	
VT100		wgetn_wstr()	
delayed line wrap		wgetstr()	
line drawing		wget_wch()	
scrolling region	258	wget_wstr()	
status line	263	whline()	
vwprintw()	211	whline_set()	
vwscanw()	213	widcs	269, 274
vw_printw()	212	wide character	
vw_scanw()	214	wide mode	279
w	215	wide-character code (C language)	281
w infix	26	wide-character string	281
w prefix	26	width of character, variable	268
waddch()	32	will	4
waddchnstr()	33	winch()	112
waddchstr()	33	winchnstr()	113
waddnstr()		winchstr()	
waddnwstr()		wind	
waddstr()		window	
waddwstr()		clipping	
wadd_wch()		current or specified	
wadd_wchnstr()		parent	
wadd_wchstr()		touched flag	
warning		window background	
EC	5	window hierarchy	
wattroff()		window property	
wattron()		window property	
wattrset()		winnstr()	
wattr_get()		winnwstr()	
wattr_off()		winsch()	
wattr_on()		winsdelln()	
wattr_set()		winsertln()	
wbkgd()		winsnstr()	
wbkgdset()		winsstr()	
wbkgrnd()		winstr()	
wbkgrndset()		wins_nwstr()	
wborder()		wins_wch()	
wborder_set()		wins_wstr()	
wchgat()		winwstr()	
wclear()		win_wch()	
wclrtobot()		win_wchnstr()	
wclrtoeol()		win_wchstr()	
wcolor_set()		wmove()	
wcursyncup()		wnoutrefresh()	
wdelch()		wprintw()	
wdeleteln()		wrap to next line	
**			
wechochar()		wrapping	
wecho_wchar()	/ช	wredrawln()	108

Index

wrefresh()	75
wscanw()	147
wscrl()	177
wsetscrreg()	55
wsl	
wstandend()	186
wstandout()	186
wsyncdown()	191
wsyncup()	191
wtimeout()	158
wtouchln()	133
wunctrl()	218
wvline()	107
wvline_set()	108
X/Open name space	9
xenl	
xhp	267
xhpa	271
xmc	260
xoffc	267
xon	255, 267
and padding characters	252
xonc	267
xsb	267
xt	267
xvpa	271
y, x pair	19
zero-based row/column numbering	256
zero-width character	
zerom	273

Index