NAME

stty – set the options for a terminal

SYNOPSIS

/usr/ucb/stty [–**a**] [–**g**] [–**h**] [*modes*]

AVAILABILITY

SUNWscpu

DESCRIPTION

stty sets certain terminal I/O options for the device that is the current standard output; without arguments, it reports the settings of certain options.

OPTIONS

In this report, if a character is preceded by a caret (^), then the value of that option is the corresponding CTRL character (for example, ''**^h**'' is CTRL-H; in this case, recall that CTRL-H is the same as the ''back-space'' key.) The sequence ''^^'' means that an option has a null value.

–**a** Report all of the option settings.

–**g** Report current settings in a form that can be used as an argument to another *stty* command.

–**h** Report all the option settings with the control characters in an easy to read column format.

Options in the last group are implemented using options in the previous groups. Note: Many combinations of options make no sense, but no sanity checking is performed. Hardware flow control and clock modes options may not be supported by all hardware interfaces. The options are selected from the following:

Special Requests

all Reports the same option settings as **stty** without arguments, but with the control characters in column format.

everything Everything **stty** knows about is printed. Same as –**h** option.

speed The terminal speed alone is reported on the standard output.

size The terminal (window) sizes are printed on the standard output, first rows and then columns. This option is only appropriate if currently running a window system.
size and **speed** always report on the settings of **/dev/tty**, and always report the settings to the standard output.

Control Modes

parenb (–**parenb**) Enable (disable) parity generation and detection.

parext (–**parext)** Enable (disable) extended parity generation and detection for mark and space parity.

parodd (–**parodd**) Select odd (even) parity, or mark (space) parity if **parext** is enabled.

cs5 cs6 cs7 cs8 Select character size (see **termio**(7I)).

0 Hang up line immediately.

110 300 600 1200 1800 2400 4800 9600 19200 exta 38400 extb
Set terminal baud rate to the number given, if possible. (All speeds are not supported by all hardware interfaces.)

ispeed 0 110 300 600 1200 1800 2400 4800 9600 19200 exta 38400 extb
Set terminal input baud rate to the number given, if possible. (Not

		all hardware supports split baud rates.) If the input baud rate is set to zero, the input baud rate will be specified by the value of the output baud rate.
	ospeed 0 110 300 600 1200 1800 2400 4800 9600 19200 exta 38400 extb	
		Set terminal output baud rate to the number given, if possible. (Not all hardware supports split baud rates.) If the baud rate is set to zero, the line will be hung up immediately.
	hupcl (–**hupcl**)	Hang up (do not hang up) connection on last close.
	hup (–**hup**)	Same as **hupcl** (–**hupcl**).
	cstopb (–**cstopb**)	Use two (one) stop bits per character.
	cread (–**cread**)	Enable (disable) the receiver.
	clocal (–**clocal**)	Assume a line without (with) modem control.
	crtscts (**-crtscts**)	Enable hardware flow control. Raise the RTS (Request to Send) modem control line. Suspends output until the CTS (Clear to Send) line is raised.
	loblk (–**loblk**)	Block (do not block) output from a non-current layer.
Input Modes	**ignbrk** (–**ignbrk**)	Ignore (do not ignore) break on input.
	brkint (–**brkint**)	Signal (do not signal) INTR on break.
	ignpar (–**ignpar**)	Ignore (do not ignore) parity errors.
	parmrk (–**parmrk**)	Mark (do not mark) parity errors (see **termio**(7I)).
	inpck (–**inpck**)	Enable (disable) input parity checking.
	istrip (–**istrip**)	Strip (do not strip) input characters to seven bits.
	inlcr (–**inlcr**)	Map (do not map) NL to CR on input.
	igncr (–**igncr**)	Ignore (do not ignore) CR on input.
	icrnl (–**icrnl**)	Map (do not map) CR to NL on input.
	iuclc (–**iuclc**)	Map (do not map) upper-case alphabetics to lower case on input.
	ixon (–**ixon**)	Enable (disable) START/STOP output control. Output is stopped by sending an STOP and started by sending an START.
	ixany (–**ixany**)	Allow any character (only START) to restart output.
	decctlq (–**decctlq**)	Same as –**ixany**.
	ixoff (–**ixoff**)	Request that the system send (not send) START/STOP characters when the input queue is nearly empty/full.
	tandem (–**tandem)**	Same as **ixoff**.
	imaxbel (–**imaxbel)**	Echo (do not echo) BEL when the input line is too long.
	iexten (–**iexten)**	Enable (disable) extended (implementation-defined) functions for input data.
Output Modes	**opost** (–**opost**)	Post-process output (do not post-process output; ignore all other output modes).
	olcuc (–**olcuc**)	Map (do not map) lower-case alphabetics to upper case on output.
	onlcr (–**onlcr**)	Map (do not map) NL to CR-NL on output.
	ocrnl (–**ocrnl**)	Map (do not map) CR to NL on output.
	onocr (–**onocr**)	Do not (do) output CRs at column zero.
	onlret (–**onlret**)	On the terminal NL performs (does not perform) the CR function.

	ofill (−**ofill**)	Use fill characters (use timing) for delays.
	ofdel (−**ofdel**)	Fill characters are DELs (NULs).
	cr0 cr1 cr2 cr3	Select style of delay for carriage returns (see **termio**(7I)).
	nl0 nl1	Select style of delay for line-feeds (see **termio**(7I)).
	tab0 tab1 tab2 tab3	Select style of delay for horizontal tabs (see **termio**(7I)).
	bs0 bs1	Select style of delay for backspaces (see **termio**(7I)).
	ff0 ff1	Select style of delay for form-feeds (see **termio**(7I)).
	vt0 vt1	Select style of delay for vertical tabs (see **termio**(7I)).
Local Modes	**isig** (−**isig**)	Enable (disable) the checking of characters against the special control characters INTR, QUIT, and SWTCH.
	icanon (−**icanon**)	Enable (disable) canonical input (ERASE and KILL processing). Does not set MIN or TIME.
	cbreak (−**cbreak**)	Equivalent to **-icanon min 1 time 0**.
	xcase (−**xcase**)	Canonical (unprocessed) upper/lower-case presentation.
	echo (−**echo**)	Echo back (do not echo back) every character typed.
	echoe (−**echoe**)	Echo (do not echo) ERASE character as a backspace-space-backspace string. Note: This mode will erase the ERASEed character on many CRT terminals; however, it does *not* keep track of column position and, as a result, may be confusing on escaped characters, tabs, and backspaces.
	crterase (−**crterase**)	Same as **echoe**.
	echok (−**echok**)	Echo (do not echo) NL after KILL character.
	lfkc (−**lfkc**)	The same as **echok** (−**echok**); obsolete.
	echonl (−**echonl**)	Echo (do not echo) NL.
	noflsh (−**noflsh**)	Disable (enable) flush after INTR, QUIT, or SWTCH.
	stwrap (−**stwrap**)	Disable (enable) truncation of lines longer than 79 characters on a synchronous line. (Does not apply to the 3B2.)
	tostop (−**tostop**)	Send (do not send) **SIGTTOU** for background processes.
	echoctl (−**echoctl)**	Echo (do not echo) control characters as ^*char*, delete as ^?
	ctlecho (−**ctlecho)**	Same as **echoctl**.
	echoprt (−**echoprt)**	Echo (do not echo) erase character as character is ''erased''.
	prterase (−**prterase**)	Same as **echoprt**.
	echoke (−**echoke)**	BS-SP-BS erase (do not BS-SP-BS erase) entire line on line kill.
	crtkill (−**crtkill**)	Same as **echoke**.
	flusho (−**flusho)**	Output is (is not) being flushed.
	pendin (−**pendin)**	Retype (do not retype) pending input at next read or input character.
	stflush (−**stflush**)	Enable (disable) flush on a synchronous line after every **write**(2). (Does not apply to the 3B2.)
	stappl (−**stappl**)	Use application mode (use line mode) on a synchronous line. (Does not apply to the 3B2.)

Hardware Flow Control Modes	**rtsxoff** (−**rtsxoff**)	Enable (disable) RTS hardware flow control on input.
	ctsxon (−**ctsxon**)	Enable (disable) CTS hardware flow control on output.
	dterxoff (−**dterxoff**)	Enable (disable) DTER hardware flow control on input.
	rlsdxon (−**rlsdxon**)	Enable (disable) RLSD hardware flow control on output.
	isxoff (−**isxoff**)	Enable (disable) isochronous hardware flow control on input.
Clock Modes	**xcibrg**	Get transmit clock from internal baud rate generator.
	xctset	Get the transmit clock from transmitter signal element timing (DCE source) lead, CCITT V.24 circuit 114, EIA-232-D pin 15.
	xcrset	Get transmit clock from receiver signal element timing (DCE source) lead, CCITT V.24 circuit 115, EIA-232-D pin 17.
	rcibrg	Get receive clock from internal baud rate generator.
	rctset	Get receive clock from transmitter signal element timing (DCE source) lead, CCITT V.24 circuit 114, EIA-232-D pin 15.
	rcrset	Get receive clock from receiver signal element timing (DCE source) lead, CCITT V.24 circuit 115, EIA-232-D pin 17.
	tsetcoff	Transmitter signal element timing clock not provided.
	tsetcrc	Output receive clock on transmitter signal element timing (DTE source) lead, CCITT V.24 circuit 113, EIA-232-D pin 24, clock source.
	tsetcxc	Output transmit clock on transmitter signal element timing (DTE source) lead, CCITT V.24 circuit 113, EIA-232-D pin 24, clock source.
	rsetcoff	Receiver signal element timing clock not provided.
	rsetcrc	Output receive clock on receiver signal element timing (DTE source) lead, CCITT V.24 circuit 128, no EIA-232-D pin, clock source.
	rsetcxc	Output transmit clock on receiver signal element timing (DTE source) lead, CCITT V.24 circuit 128, no EIA-232-D pin, clock source.
Control Assignments	*control-character c*	Set *control-character* to *c*, where *control-character* is **intr**, **quit**, **erase**, **kill**, **eof**, **eol**, **eol2**, **swtch**, **start**, **stop**, **susp**, **dsusp**, **rprnt**, **flush**, **werase**, **lnext min**, **ctab**, **time**, or **brk**) (**ctab** is used with −**stappl**; **min** and **time** are used with −**icanon**; see **termio**(7I)). If *c* is preceded by an (escaped from the shell) caret (^), then the value used is the corresponding CTRL character (for example, ''^d'' is a CTRL-d); ''^?'' is interpreted as DEL and ''^−'' is interpreted as undefined.
	line *i*	Set line discipline to *i* ($0 < i < 127$).
Combination Modes	**evenp** or **parity**	Enable **parenb** and **cs7**.
	−**evenp**, or −**parity**	Disable **parenb**, and set **cs8**.
	even (−**even**)	Same as **evenp** (−**evenp**).
	oddp	Enable **parenb**, **cs7**, and **parodd**.
	−**oddp**	Disable **parenb** and **parodd**, and set **cs8**.

	odd (–**odd**)	Same as **oddp** (–**oddp**).
	spacep	Enable **parenb**, **cs7**, and **parext**.
	–**spacep**	Disable **parenb** and **parext**, and set **cs8**.
	markp	Enable **parenb**, **cs7**, **parodd**, and **parext**.
	–**markp**	Disable **parenb**, **parodd**, and **parext**, and set **cs8**.
	raw (–**raw** or **cooked**)	Enable (disable) raw input and output (no ERASE, KILL, INTR, QUIT, SWTCH, EOT, or output post processing).
	nl (–**nl**)	Unset (set) **icrnl**, **onlcr**. In addition –**nl** unsets **inlcr**, **igncr**, **ocrnl**, and **onlret**.
	lcase (–**lcase**)	Set (unset) **xcase**, **iuclc**, and **olcuc**.
	LCASE (–**LCASE**)	Same as **lcase** (–**lcase**).
	tabs (–**tabs** or **tab3**)	Preserve (expand to spaces) tabs when printing.
	ek	Reset ERASE and KILL characters back to normal **#** and **@**.
	sane	Resets all modes to some reasonable values.
	term	Set all modes suitable for the terminal type *term*, where *term* is one of **tty33**, **tty37**, **vt05**, **tn300**, **ti700**, or **tek**.
	async	Set normal asynchronous communications where clock settings are **xcibrg**, **rcibrg**, **tsetcoff** and **rsetcoff**.
	litout (–litout)	Disable (enable) **parenb**, **istrip**, and **opost**, and set **cs8** (**cs7**).
	pass8 (–pass8)	Disable (enable) **parenb** and **istrip**, and set **cs8** (**cs7**).
	crt	Set options for a CRT (**echoe**, **echoctl**, and, if **>=** 1200 baud, **echoke**.)
	dec	Set all modes suitable for Digital Equipment Corp. operating systems users ERASE, KILL, and INTR characters to **^?**, **^U**, and **^C**, **decctlq**, and **crt**.)
Window Size	**rows***n*	Set window size to *n rows.*
	columns*n*	Set window size to *n columns.*
	cols*n*	An alias for **columns** *n*.
	ypixels*n*	Set vertical window size to *n pixels.*
	xpixels*n*	Set horizontal window size to *n pixels.*
SEE ALSO	**tabs**(1), **ioctl**(2), **termio**(7I), **termiox**(7I)	