NAME

stty − set terminal parameters

SYNOPSIS

stty [**−ag]**

stty *encoded-form*

stty *speed* **ispeed** *speed* **ospeed** *speed* **cs5 cs6 cs7 cs8** [−]**parenb** [−]**parodd** [−]**hupcl** [−]**cstopb** [−]**cread** [−]**clocal** [−]**ignbrk** [−]**brkint** [−]**ignpar** [−]**parmrk** [−]**inpck** [−]**istrip** [−]**inlcr** [−]**igncr** [−]**icrnl** [−]**ixon** [−]**ixoff** [−]**ixany** [−]**opost** [−]**onlcr** [−]**xtabs** [−]**onoeot** [−]**isig** [−]**icanon** [−]**iexten** [−]**echo** [−]**echoe** [−]**echok** [−]**echonl** [−]**noflsh** [−]**lflusho** **eof**=*c* **eol**=*c* **erase**=*c* **erase**=*c* **intr**=*c* **kill**=*c* **quit**=*c* **susp**=*c* **start**=*c* **stop**=*c* **rprnt**=*c* **lnext**=*c* **flush**=*c* **min**=*n* **time**=*n* **rows** *n* **cols** *n* **xpixels** *n* **ypixels** *n* **cooked raw** [−]**evenp** [−]**parity** [−]**oddp** [−]**nl ek sane**

DESCRIPTION

Stty shows or changes the parameters of the terminal connected to standard input. **Stty** takes a myriad of arguments most of which are mapped directly to the flags and special characters described in **tty**(4), so we won't describe them here.

Stty has three forms of operation. First, without any arguments **stty** shows all terminal attributes that are different from the default state. Option **−a** makes **stty** print all terminal attributes, and **−g** lets **stty** print the attributes in a special encoded form, a simple row of colon separated hexadecimal numbers.

In the second form of operation **stty** takes an encoded form as produced by the **−g** option and sets the terminals attributes to its decoded value.

In the third form **stty** interprets a series of flags and parameters settings and modifies the terminal attributes accordingly. Flags can be given as **icanon** or **−icanon** for instance, either setting or clearing the **ICANON** flag. Special character values can by set like **intr=ˆC** for example, which sets the interrupt character to CTRL-C. You can either use a real CTRL-C, or the two characters 'ˆ' and 'C'. In any case it is probably necessary to use quotes to guard it from the shell: **intr='ˆC'**.

A number alone is interpreted as a baud rate setting for both the input and output rate. The input or the output rate can be set separately with use of the **ispeed** and **ospeed** prefixes to the number. The character size can be set with **cs5**, **cs6**, **cs7** or **cs8**.

The **MIN** and **TIME** value, the number of rows and columns, and the xpixels and ypixels of the window can also be set using one of the keywords **min**, **time**, **rows**, **cols**, **xpixels** or **ypixels**, followed by a decimal number that is the value of the setting.

Stty accepts several keywords that are not named by corresponding flags or parameters in **tty**(4). They set several attributes at once:

cooked Same as **icrnl ixon opost onlcr isig icanon iexten echo**, setting all the attributes that are needed for line oriented mode.

raw Same as **−icrnl −ixon −opost −onlcr −isig −icanon −iexten −echo**, setting all the attributes for a raw data channel.

evenp parity
These synonyms are equal to **cs7 parenb −parodd**, setting the line to 7 bits even parity.

oddp Same as **cs7 parenb parodd**, setting the line to 7 bits odd parity.

−parity −evenp −oddp
All synonyms for **cs8 −parenb**, setting the line to 8 bits, no parity.

nl Same as **icrnl**, setting carriage return to line feed input translation.

−nl Same as **−icrnl −inlcr −igncr**, disabling any carriage return or line feed handling.

ek Set the **ERASE** and **KILL** special characters back to the default.

sane Set all attributes to the default except things like the line speed and parity, because their "sane" value is probably what it is right now. The default values are compiled into **stty** from the

<termios.h> include file. Use **stty sane; stty -a** to know what they are.

FILES

/etc/ttytab The **init** field of this file may contain an **stty** command to set the attributes to match an attached RS232 terminal or modem.

SEE ALSO

tty(4), **ttytab**(5).

NOTES

The **cooked**, **raw**, **rows**, **cols**, **xpixels** and **ypixels** keywords are Minix additions beyond the keywords defined by POSIX. **Rows** and **cols** are common UNIX extensions, however. There are more Minix specific flags that match the Minix specific attributes described in **tty**(4).

AUTHOR

Kees J. Bot (kjb@cs.vu.nl)