NAME

cu - call another UNIX system

SYNOPSIS

cu telno [-tneoi] [-s speed] [-anytilda] [-tandem]

DESCRIPTION

Cu calls up another UNIX system, a terminal, or possibly a non-UNIX system. It manages an interactive conversation with possible transfers of text files. Telno is either the telephone number, with w's at appropriate places to wait for secondary dialtone(s), a telephone number with the appropriate uucp(1C) dialcode prefixed, a system name listed in the uucp database (L.sys(5) file), or a hardwired line. Cu distinguishes all these various possibilities by looking at the telno character string. If no slashes appear and the first character is not a number, cu looks in the uucp database for information about the name. First cu accuses the telno string of being a system and looks in the L.sys(5) file of uucp. That failing, it tries to identify an initial string of alphabetic characters as being a location prefix as found in the uucp file L-dialcodes(5). That failing, the string is handed to the conns(3C) subroutine for an attempt to connect. If a system name was matched or a telephone prefix was found, cu generates a new teleno string (or if a hardwired line was found for the system in L.sys(5) the device name string is used). If the -n option is specified, cu prints the system name (if it exists), full telephone number and the line speed and exits. This useful when trying to determine whether you have guessed the correct system name or telephone location prefix.

The telno string is then handed to the conns(3C). subroutine which makes the actual connection to the remote system. If it fails, cu prints a message and exits.

The -t flag is used to dial out to a terminal. The -anytilda flag causes cu to accept the escape sequences listed below anywhere on a line, not just at the beginning (this is very useful when connecting to DEC ODT). Only the send process interprets the escape sequences anywhere on the line; the receive process is unaffected. The -tandem flag designates that the TANDEMI and TANDEMO flags are to be set meaning that XON/XOFF processing should take place. This allows cu to take and put files at 9600 baud. The -e(-o) flag designates that even (odd) parity is to be sent. If both -e and -o are on, marked parity is sent, i.e. the high order bit is always set. This is useful when talking to the dataswitch. The -i switch puts cu into an interactive mode when selecting phone numbers from the *uucp* database. Since there may be more than one entry for a system, this is the only way to select some other entry than the first one encountered. When the -i switch is specified, cu will ask whether it should use each entry it finds in the *uucp* database. When you respond with y < return >, cu uses that number. Any other response and cu will continue looking in the database for another entry for the same system. Speed gives the transmission speed (110, 134, 150, 300, 1200, 4800, 9600); 300 is the default value.

After making the connection with the *conns*, *cu* runs as two processes: the *send* process reads the standard input and passes most of it to the remote system; the *receive* process reads from the remote system and passes most data to the standard output. Lines beginning with "" have special meanings.

The send process interprets the following:

1.	terminate the conversation.
EOT	terminate the conversation
~ <file< td=""><td>send the contents of <i>file</i> to the remote system, as though typed at the terminal.</td></file<>	send the contents of <i>file</i> to the remote system, as though typed at the terminal.
- •	invoke an interactive shell on the local system.
-! <i>cmd</i>	run <i>cmd</i> on the local system (via $sh - c$).

~\$cmd	run cmd locally and send its output to the remote system.
"%take from [to]	copy file from (on the remote system) to file to on the local system. If to is omitted, the from name is used in both places.
""", put from [to]	copy file <i>from</i> (on local system) to file to on remote system. If to is omitted, the <i>from</i> name is used in both places.
~%cd newdir	change directory on local system.
~%speed newspeed	change the speed of the remote line.
~%anytilda	change the state of the anytilda flag to opposite. A "was [OFF ON]" message is printed.
~%xclude	change the state of the XCLUDE bit for the remote line. A "was [OFF] ON]" message is printed.
~%tande m	change the state of XON/XOFF processing. A "was [OFF ON]" mes- sage is printed.
~%break	send a break to the remote system.
~%?	print a list of wiggle (~) usages.
~~ · · ·	send the line $\tilde{\ldots}$.
	We are the from the sometre system to its standard output. Any

The receive process normally copies data from the remote system to its standard output. Any line from the remote that begins with \sim initiates an output diversion to a file. The complete sequence is:

`> [>] [:] file
zero or more lines to be written to file
`>

In any case, output is diverted (or appended, if >> is used) to the file. If : is used, the diversion is *silent*, i.e., it is written only to the file. If : is omitted, output is written both to the file and to the standard output. The trailing \sim terminates the diversion.

The use of "%put requires stty(1) and cat(1) on the remote side. It also requires that the current erase and kill characters on the remote system be identical to the current ones on the local system. Backslashes are inserted at appropriate places.

The use of "%take requires the existence of echo and tee on the remote system. Also, stty tabs mode is required on the remote system if tabs are to be copied without expansion.

FILES

/dev/null

SEE ALSO

cat(1), stty(1), uucp(1C), conns(3C), dh(4), dn(4), tty(4)

DIAGNOSTICS

Exit code is zero for normal exit, non-zero (various values) otherwise.

BUGS

At speeds greater than 1200 baud, characters are likely to be lost unless the TANDEMI and TANDEMO bits are set by the option on the command line or through the wiggle escape sequence described above.

The algorithm used to send breaks is somewhat unreliable. The requirements for transfers (stty(1), cat(1), echo(1), and tee(1)) are not changeable.