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INIT(VIII)

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NAME

init - process control initialization

SYNOPSIS

/etc/init

DESCRIPTION

Under MERT, a Carrier-Detect interrupt on a communication line (as specified in the *sgen* process) will create a UNIX supervisor process for the user logging in. UNIX will start with the *init* process, which is invoked with the line id.

First, *init* checks to see if the console switches contain 173030. (This number is likely to vary between systems.) If so, the console typewriter /dev/tty8 is opened for reading and writing and the Shell is invoked immediately. This feature is used to bring up a single-user system. When the system is brought up in this way, the *getty* and *login* routines mentioned below and described elsewhere are not used. If the Shell terminates, *init* starts over looking for the console switch setting.

Otherwise, *init* invokes a Shell, with input taken from the file *letc/rc*. This command file performs housekeeping like removing temporary files, mounting file systems, and starting daemons.

Then *init* reads the file *letclttys* and creates a process for the typewriter specified in the argument passed by the Unix supervisor process and opens the appropriate typewriter for reading and writing. These channels thus receive file descriptors 0 and 1, the standard input and output. *Getty* reads the user's name and invokes *login* (q.v.) to log in the user and execute the Shell.

Ultimately the Shell will terminate because of an end-of-file either typed explicitly or generated as a result of hanging up. The main path of *init*, which has been waiting for such an event, wakes up and removes the appropriate entry from the file *utmp*, which records current users, and makes an entry in *lusrladm/wtmp*, which maintains a history of logins and logouts.

FILES

/dev/tty?, /etc/utmp, /usr/adm/wtmp, /etc/ttys, /etc/rc

SEE ALSO

login (I), kill (I), sh (I), ttys (V), getty (VIII)