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 letc/ttys 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 $/ u s r / a d m / w t m p$, which maintains a history of logins and logouts.

## FILES

/dev/tty?, /etc/utmp, /usr/adm/wtmp, /etc/ttys, /etc/rc
SEE ALSO
$\operatorname{login}$ (I), kill (I), sh (I), ttys (V), getty (VIII)

