```
1   # /etc/rc - System startup script run by init before going multiuser.
2
3   umask 022
4   TERM="${TERM-minix}"
5   PATH=/usr/local/bin:/bin:/usr/bin:/usr/sbin
6   RC_TZ=/etc/rc.timezone
7   export TERM PATH
8
9   usage()
10  {
11      echo >&2 "Usage: $0 [-saf] start|stop|down"
12      exec intr sh
13  }
14
15  up()
16  {
17      service=$1
18      shift
19
20      # Function to dynamically start a system service
21      echo -n " $service"
22      service up /sbin/$service "$@"
23  }
24
25  while getopts 'saf' opt
26  do
27      case $opt in
28      s)  sflag=t ;;      # Single user
29      a)  aflag=t ;;      # Ask for /usr
30      f)  fflag=t ;;      # Force a full file system check
31      *)  usage
32      esac
33  done
34  shift `expr $OPTIND - 1`
35
36  case "$#:$1" in
37  1:start|1:stop|1:down)
38      action=$1
39      ;;
40  *)  usage
41  esac
42
43  case $action in
44  start)
45      echo ""
46      echo -n "Multiuser startup in progress ...:"
47
48      # National keyboard?
49      test -f /etc/keymap && loadkeys /etc/keymap
50
51      up is -period 5HZ
52      up cmos -dev /dev/cmos -period 5HZ
53      echo .
54
55      # Set timezone.
56      export TZ=GMT0
57      if [ -f "$RC_TZ" ]
58      then . "$RC_TZ"
59      fi
60
61      # Try to read the hardware real-time clock, otherwise do it manually.
62      readclock || intr date -q
63
64      # Initialize files.
65      printroot >/etc/mtab          # /etc/mtab keeps track of mounts
66      >/etc/utmp                    # /etc/utmp keeps track of logins
67
68      # /etc/fstab lists the root, tmp and usr devices.
69      . /etc/fstab
70
71      # Any swapspace on a device?
72      test "$swap" : '/dev/' && mount -s $swap
73
```

```
74      # Are we booting from CD?
75      bootcd="`/bin/sysenv bootcd`"
76
77      # If booting from CD, /usr has to be mounted readonly.
78      # Also, $usr won't be specified correctly in the
79      # fstab (the CD could be anywhere), so we decide
80      # where it is based on sysenv (set by FS when probing for CD).
81      if [ "$bootcd" = 1 ]
82      then
83              #imagedev="`/bin/sysenv cdproberoot`"
84              #usrdev="`expr $imagedev + 1`"
85              usr_roflag="-r"
86              usr="$cddev"p2
87              echo "Setting /usr on cd is $usr"
88      fi
89
90      # Mount the /usr partition unless this is a single floppy Minix.
91      if [ ! -d /usr/bin ]
92      then
93          if [ "$aflag" -o "$usr" = unknown ]
94          then
95              # We need to ask what the /usr du jour is.
96              intr sh -c '
97                  echo -n "Finish the name of device to mount as /usr: /dev/"
98                  read usr
99                  echo "usr=/dev/$usr" >/tmp/usr'
100             . /tmp/usr
101         fi
102         mount $usr_roflag $usr /usr || {
103             echo "\
104 Please try to mount something else as /usr, then hit CTRL-D to continue startup.
105 Mount $usr /usr failed -- Single user."
106             intr sh
107         }
108         rm -f /tmp/usr
109     fi
110
111     # Check if the system crashed.
112     if shutdown -C
113     then
114         echo
115         echo "The system was not properly shut down.  Checking file systems."
116         fflag=t
117     fi
118
119     if [ "$fflag" ]
120     then
121         umount $usr
122         echo "fsck / - $root"
123         intr fsck -r $root
124         echo "fsck /usr - $usr"
125         intr fsck -r $usr
126         if [ ! -z "$home" ]
127         then    echo "fsck /home - $home"
128                 intr fsck -r $home
129         fi
130         mount $usr /usr
131     fi
132
133     if [ ! -z "$home" ]
134     then mount $home /home || echo "WARNING: couldn't mount $home on /home"
135     fi
136
137     # This file is necessary for above 'shutdown -C' check.
138     # (Silence stderr in case of running from cd.)
139     touch /usr/adm/wtmp 2>/dev/null
140
141     if [ "$sflag" ]
142     then
143         echo "Single user."
144         intr sh
145     fi
146
```

```
147        # Any swapspace on a file?
148        test −n "$swap" −a ! "$swap" : '/dev/' && mount −s $swap
149
150
151        case "`printroot −r`":$bootcd in
152    /dev/ram:)
153            # Remove boot−only things to make space,
154            # unless booting from CD, in which case we need them.
155            rm −rf /boot
156            # put the compiler on ram
157            cp /usr/lib/em* /usr/lib/cpp* /lib
158        esac
159
160        # Things should be alright now.
161        ;;
162    down|stop)
163        sync
164        # Tell RS server we're going down.
165        service shutdown
166        ;;
167    esac
168
169    # Further initialization.
170    test −f /usr/etc/rc && sh /usr/etc/rc $action
171    test −f /usr/local/etc/rc && sh /usr/local/etc/rc $action
172    test −f /etc/rc.rescue && sh /etc/rc.rescue $action
173
174    # Any messages?
175    test "$action" = start −a −f /etc/issue && cat /etc/issue
176
177    exit 0
```