UNICOS System Daemons [4]

This chapter describes how to start and stop UNICOS system daemons; it also includes a sample `/etc/config/daemons` file. A *daemon* is a process that executes in the background; a daemon (the process) is always available.

4.1 Related UNICOS system daemons documentation

The following documentation contains additional information about UNICOS system daemons: *UNICOS Administrator Commands Reference Manual*, Cray Research publication SR–2022, `bcheckrc`(8), `brc`(8), `dmdstop`(8), `fuser`(8), `init`(8), `msgdstop`(8), `rc`(8), `sdaemon`(8), and `shutdown`(8) man pages.

Procedure 3: Starting and stopping UNICOS system daemons

You can use the menu system to start and stop UNICOS daemons or you can start and stop daemons manually.

If you are using the menu system, select the following:

```
Configure System
    ->System Daemons Configuration
        ->System Daemons Table
```

Then, select the submenu of the daemon you want to start or stop, and change the `Start up at boot time?` field. When you exit out of the submenu, the `StartOpts` field of the `System Daemons Table` menu will reflect the change you made. As you exit the `System Daemons Table` menu, update the form file, then activate your changes through the `System Daemons Configuration` menu.

Note: All daemons that have `YES` in the `Start up at boot time?` field will be started automatically in subsequent system startups. If you have changed a daemon setting to be `YES` in the `Start up at boot time?` field and want to start it before the next system startup, see **To Start One Daemon** in this procedure.

A sample `System Daemons Table` submenu screen and `exportfs` NFS daemon submenu screen follow:

```
Configure System
    ->System Daemons Configuration
        ->System Daemons Table
```

```
                          System Daemons Table

     Group  Name      StartOpts    Kill            Program
     -----  ----      ---------    ----            -------
     SYS1   errdemon  YES          /etc/errstop    /etc/errdemon
     SYS1   cnfsd     NO           *               /etc/shrdaemon
     .
     .
     .
     NFS    cnfsd     YES          *                /etc/cnfsd
E->  NFS    -         YES          -                /etc/exportfs
     NFS    mountd    YES          *                /etc/mountd
     .
     .
     .

  Keys:   ^? Commands   H Help   Q Quit   V ViewDoc   W WhereAmI
```

```
                          System Daemons Table

 S-> Group                                          NFS
     Name                                           exportfs
     Start up at boot time?                         YES
     Kill action                                    *
     Executable pathname                            /etc/exportfs
     Command-line arguments                         -av
     Additional command-line arguments
     Additional command-line arguments
```

If you are not using the menu system, edit the `/etc/config/daemons` configuration file to set which daemons to start or stop. You can modify this file by using your preferred UNICOS editor (for a sample `/etc/config/daemons` file, see page Section 4.1, page 45).

Note: All daemons that have YES in the start field of the /etc/config/daemons configuration file will be started automatically when you do subsequent system startups. If you have changed a daemon setting to be YES in the start field of the /etc/config/daemons configuration file and want to start it before the next system startup, see **To Start One Daemon** in this procedure.

To Start One Daemon

To start or stop a daemon or group of daemons with the arguments that are included in the /etc/config/daemons file, use the sdaemon (/etc/sdaemon)command at any time.

To start one daemon, use the sdaemon -scommand, as follows:

/etc/sdaemon -s *daemon*

To start a group of daemons, use the sdaemon -s -g command, as follows:

/etc/sdaemon -s -g *daemongroup*

SYS1 is a group of daemons defined in the daemon configuration file that contains all daemons (such as, the message daemon) that must be started **before** network startup.

TCP and NFS are the network daemon groups.

SYS2 is a group of daemons defined in the daemon configuration file that contains all daemons (such as, the NQS daemon) that must be started **after** network startup.

During the shutdown process, daemons are stopped automatically. If you want to stop specific daemons or group(s) of daemons without shutting down your system, you can use the sdaemon -k command, as follows:

To stop one daemon, use the sdaemon -k command, as follows:

/etc/sdaemon -k *daemon*

To stop a group of daemons, use the sdaemon -k -g command, as follows:

/etc/sdaemon -k -g *daemongroup*

To verify whether a given daemon process was created or killed successfully, use the ps -e command.

Note: To identify whether a daemon is running, use the `ps -ale | grep` *daemon_name* command. The maximum length of *daemon_name* is 8 characters; if you use more than 8 characters, no information will be returned to your screen.

For additional information, see the `sdaemon`(8) man page.

A sample `/etc/config/daemons` file follows:

```
# Configuration file for daemons (and other commands) started by /etc/rc
# and other startup scripts (through /etc/sdaemon).
#
# File format is:
#
# group tag           start kill           pathname                arguments
#
SYS1    errdemon      YES   /etc/errstop       /etc/errdemon
SYS1    share         NO    *                  /etc/shrdaemon
SYS1    share         NO    *                  /etc/shradmin       -t100 -F06 -K60s -R4
SYS1    cron          YES   *                  /etc/cron
SYS1    msgdaemon     YES   /etc/msgdstop      /usr/lib/msg/msgdaemon
SYS1    fsdaemon      NO    *                  /etc/fsdaemon
SYS1    fsdaemon      NO    *                  /etc/fsmon          -a all
TCP     myroutes      NO    -                  /etc/myroutes
TCP     gated         NO    /etc/gated.pid     /etc/gated          /usr/spool/gated.log
TCP     named         NO    *                  /etc/named          /etc/named.boot
TCP     inetd         YES   *                  /etc/inetd          /etc/inetd.conf
TCP     talkd         NO    *                  /etc/talkd
TCP     sendmail      YES   *                  /usr/lib/sendmail   -bd -q30m
TCP     printer       YES   -                  /bin/rm -f /dev/printer
                                                                   /usr/spool/lpd.lock
TCP     printer       YES   /usr/spool/lpd.lock /usr/lib/lpd       -l
TCP     snmpd         NO    snmpd              /etc/snmpd
TCP     yp_domainname NO    /usr/bin/domainname ""
TCP     portmap       YES   *                  /etc/portmap        -i
TCP     keyserv       NO    *                  /etc/keyserv
TCP     ntpd          YES   *                  /etc/ntpd           -r4
NFS     nfsd          YES   *                  /etc/nfsd           4
NFS     cnfsd         YES   *                  /etc/cnfsd          4
NFS     -             YES   -                  /etc/exportfs       -av
NFS     mountd        YES   *                  /etc/mountd
NFS     automount     YES   *                  /etc/automount      -m -f
                                                                   /etc/auto.master
```

```
NFS     biod          YES   *                  /etc/biod                          4
NFS     pcnfsd        NO    *                  /etc/pcnfsd
SYS2    scp           NO    /usr/lib/uscpterm  /usr/lib/uscpd
SYS2    syslogd       YES   *                  /etc/newsys         -s
SYS2    tpdaemon      YES   /etc/tpdstop       /usr/lib/tp/tpdaemon -cr
SYS2    dmdaemon      NO    /usr/lib/dm/dmdstop /usr/lib/dm/dmdaemon
SYS2    NQS           YES   /usr/bin/qstop     /usr/bin/qstart     -i
                                                /etc/config/nqs_config -c
                                                /usr/tmp/nqs.log
SYS2    samdaemon     YES   *                  /usr/lib/sam/samdaemon
SYS2    air           YES   -                  /usr/air/bin/start_air
```