

NAME

rpc.lockd - NFS file locking daemon

SYNOPSIS

rpc.lockd [-**d** *debug_level*] [-**F**] [-**g** *grace period*] [-**h** *bindip*] [-**p** *port*]

DESCRIPTION

The **rpc.lockd** utility provides monitored and unmonitored file and record locking services in an NFS environment. To monitor the status of hosts requesting locks, the locking daemon typically operates in conjunction with `rpc.statd(8)`.

Options and operands available for **rpc.lockd**:

- d** The **-d** option causes debugging information to be written to syslog, recording all RPC transactions to the daemon. These messages are logged with level LOG_DEBUG and facility LOG_DAEMON. Specifying a *debug_level* of 1 results in the generation of one log line per protocol operation. Higher debug levels can be specified, causing display of operation arguments and internal operations of the daemon.
- F** Run **rpc.lockd** in the foreground, rather than going into daemon mode. This is useful if some other process uses `fork(2)` and `exec(3)` to run **rpc.lockd**, and wants to monitor when and how it exits.
- g** The **-g** option allow to specify the *grace period*, in seconds. During the grace period **rpc.lockd** only accepts requests from hosts which are reinitialising locks which existed before the server restart. Default is 30 seconds.
- h** *bindip*
Specify specific IP addresses to bind to. This option may be specified multiple times. If no **-h** option is specified, **rpc.lockd** will bind to INADDR_ANY. Note that when specifying IP addresses with **-h**, **rpc.lockd** will automatically add 127.0.0.1 and if IPv6 is enabled, ::1 to the list.
- p** The **-p** option allow to force the daemon to bind to the specified *port*, for both AF_INET and AF_INET6 address families.

Error conditions are logged to syslog, irrespective of the debug level, using log level LOG_ERR and facility LOG_DAEMON.

The **rpc.lockd** utility must NOT be invoked by `inetd(8)` because the protocol assumes that the daemon

will run from system start time. Instead, it should be configured in `rc.conf(5)` to run at system startup.

FILES

`/usr/include/rpcsvc/nlm_prot.x` RPC protocol specification for the network lock manager protocol.

SEE ALSO

`syslog(3)`, `rc.conf(5)`, `rpc.statd(8)`

STANDARDS

The implementation is based on the specification in *Protocols for X/Open PC Interworking: XNFS, Issue 4, X/Open CAE Specification C218*, ISBN 1 872630 66 9.

HISTORY

A version of `rpc.lockd` appeared in SunOS 4.

BUGS

The current implementation serialises locks requests that could be shared.