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.