#### NAME

devd - device state change daemon

### SYNOPSIS

devd [-dnq] [-f file] [-l num]

#### DESCRIPTION

The devd daemon provides a way to have userland programs run when certain kernel events happen.

The following options are accepted.

- -d Run in the foreground instead of becoming a daemon and log additional information for debugging.
- -f *file* Use configuration file *file* instead of the default /*etc/devd.conf*. If option -f is specified more than once, the last file specified is used.
- -l num Limit concurrent socket connections to num. The default connection limit is 10.
- -n Do not process all pending events before becoming a daemon. Instead, call daemon right away.
- -q Quiet mode. Only log messages at priority LOG\_WARNING or above.

### **IMPLEMENTATION NOTES**

The **devd** utility is a system daemon that runs in the background all the time. Whenever a device is added to or removed from the device tree, **devd** will execute actions specified in devd.conf(5). For example, **devd** might execute dhclient(8) when an Ethernet adapter is added to the system, and kill the dhclient(8) instance when the same adapter is removed. Another example would be for **devd** to use a table to locate and load via kldload(8) the proper driver for an unrecognized device that is added to the system.

The **devd** utility hooks into the devctl(4) device driver. This device driver has hooks into the device configuration system. When nodes are added or deleted from the tree, this device will deliver information about the event to **devd**. Once **devd** has parsed the message, it will search its action list for that kind of event and perform the action with the highest matching value. For most mundane uses, the default handlers are adequate. However, for more advanced users, the power is present to tweak every aspect of what happens.

The devd utility reads /etc/devd.conf or the alternate configuration file specified with a -f option and

uses that file to drive the rest of the process. While the format of this file is described in devd.conf(5), some basics are covered here.

In the **options** section, one can define multiple directories to search for config files. The default config file specifies */etc/devd* and */usr/local/etc/devd* as directories to search. All files in these directories whose names match the pattern \*.*conf* are parsed. These files are intended to be installed by third party vendors that wish to hook into the **devd** system without modifying the user's other config files.

Since devctl(4) allows only one active reader, **devd** multiplexes it, forwarding all events to any number of connected clients. Clients connect by opening the SOCK\_SEQPACKET UNIX domain socket at /var/run/devd.seqpacket.pipe.

# FILES

/etc/devd.conf	The default <b>devd</b> configuration file.
/var/run/devd.seqpacket.pipe	The socket used by <b>devd</b> to communicate with its clients.
/var/run/devd.pipe	A deprecated socket retained for use with old clients.

# SEE ALSO

devctl(4), devd.conf(5)

# HISTORY

The devd utility first appeared in FreeBSD 5.0.

### AUTHORS

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