

NAME

nvd - NVM Express disk driver

SYNOPSIS

To compile this driver into your kernel, place the following lines in your kernel configuration file:

```
device nvme
device nvd
```

Or, to load the driver as a module at boot, place the following lines in loader.conf(5):

```
nvme_load="YES"
nvd_load="YES"
```

DESCRIPTION

The **nvd** driver exposes NVM Express (NVMe) namespaces as disks to the kernel disk storage API. It depends on the nvme(4) driver for notification of existing NVMe namespaces and submission of NVM I/O commands.

Device nodes from the **nvd** driver will have the format `/dev/nvdX` and are GEOM(4) disks which can be partitioned by geom(8). Note that device nodes from the nvme(4) driver are not GEOM(4) disks and cannot be partitioned.

CONFIGURATION

The **nvd** driver defines a system-wide maximum delete size for NVMe devices. The default is 1GB. To select a different value, set the following tunable in loader.conf(5):

```
hw.nvd.delete_max=<delete size in bytes>
```

SEE ALSO

GEOM(4), nda(4), nvme(4), geom(8), nvmecontrol(8), disk(9)

HISTORY

The **nvd** driver first appeared in FreeBSD 9.2.

AUTHORS

The **nvd** driver was developed by Intel and originally written by Jim Harris <jimharris@FreeBSD.org>, with contributions from Joe Golio at EMC.

This man page was written by Jim Harris <jimharris@FreeBSD.org>.