

**NAME**

blkmapd - pNFS block layout mapping daemon

**SYNOPSIS**

**blkmapd** [-d] [-f]

**DESCRIPTION**

The **blkmapd** daemon performs device discovery and mapping for the parallel NFS (pNFS) block layout client [RFC5663].

The pNFS block layout protocol builds a complex storage hierarchy from a set of *simple volumes*. These simple volumes are addressed by content, using a signature on the volume to uniquely name each one. The daemon locates a volume by examining each block device in the system for the given signature.

The topology typically consists of a hierarchy of volumes built by striping, slicing, and concatenating the simple volumes. The **blkmapd** daemon uses the device-mapper driver to construct logical devices that reflect the server topology, and passes these devices to the kernel for use by the pNFS block layout client.

**OPTIONS**

- d** Performs device discovery only then exits.
- f** Runs **blkmapd** in the foreground and sends output to stderr (as opposed to syslogd)

**SEE ALSO**

[nfs\(5\)](#), [dmsetup\(8\)](#)

RFC 5661 for the NFS version 4.1 specification.

RFC 5663 for the pNFS block layout specification.

**AUTHORS**

Haiying Tang <Tang\_Haiying@emc.com>

Jim Rees <rees@umich.edu>