

Extreme Storage Panel: NFS/RDMA



OPENFABRICS
ALLIANCE

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NFS/RDMA

- Full fabric performance with stock NFS
- Linux: upstream since
 - Client: 2.6.24 (1/2008), Server: 2.6.25 (3/2008)
 - IB, iWARP, or any Open Fabrics verbs provider
- OpenSolaris
 - Client and server: snv_b98 (Nevada 2008.11)
 - IB-only
- Closely integrated: “mount -o rdma ...”
- Transparent to application and system

Standardization

- IETF protocols approved and final
 - In RFC Editor's queue for publication
- IANA port number assigned
 - 20049 on all transports
 - (doesn't share 2049 due to iWARP/TCP)
- Fully tested at NFS Connectathon
 - February 2009 most recent
 - NFSv3, NFSv4, IB, iWARP, Linux, OpenSolaris

Implementation

- Runs from base install on any recent kernel
- Fedora 9, 10, 11...
- Ubuntu 8.10 ...
- OpenSolaris
- Current/future Enterprise Linux distros
 - SLES11, RHEL6 (expected), etc.
- Various OFED backports
 - (some exceptions but mostly working)