

SFS 2.0 Port to IPv6

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Topics...

- **Introduction**
- **Motivation**
- **How it works**
- **References**

Introduction...

- **SFS (System File Server) 1.0 was released in April 1993. It utilizes the LADDIS NFS file server benchmark.**
- **SFS tries to overcome the limitations of nhfsstone, another NFS server benchmark.**
- **SFS implements the NFS protocol within its own framework.**
- **SFS 1.x is meant to test NFS version 2 servers running on top of the UDP transport.**
- **SFS 2.0 was released in 1997 to keep up with the advances in NFS technology.**

Motivation...

- **IPv6 is the future Internet protocol and Solaris must inevitably support it.**
- **SFS 2.0 is an excellent stress test for an NFS server.**
- **Someone had to do it!**

How it works...

- **The RPC framework had to be updated to work with IPv6.**
- **SFS runs as a distributed environment.**
- **Running this benchmark currently requires a dual stack OS.**
- **A text based user interface is provided for controlling the benchmark.**

References...

- **Wittle, Mark, Bruce Keith, “Laddis: The Next Generation in NFS File Server Benchmarking”, Usenix, April 1993**
- **Standard Performance Evaluation Corporation, “SFS 2.0”, 1997, SFS 2.0 Documentation Version 1.0**