

Datasheet

Fujitsu Software BS2000

NFS V3.0

Network File System (NFS) for BS2000

NFS is a protocol which allows files to be accessed via a network. With NFS in BS2000, local files and directories of a BS2000 server can be made available for processing on a remote system in the LAN. Equally, files and directories that have been made available on the BS2000 server can be processed as if they were local files.

The disk peripherals of a BS2000 system thus become the central file store for other (smaller) IT systems, making the BS2000 system into a central data server. In addition to the server functions, NFS also offers the client function for BS2000 users. This client function provides access to other NFS server systems.



Topics

NFS as central data server

With NFS, the disk peripherals of a BS2000 system are turned into the central file store for other, mainly smaller IT systems, as well as for third-party systems with an NFS client function and connected to a LAN. This makes the BS2000 system the central data server.

BS2000 users work with NFS files via the program and command interfaces of the POSIX file system and can access files in the same way as in local (POSIX) file access, even if the files are physically stored on a remote system. NFS runs on top of the POSIX subsystem.

NFS as client

NFS is available as a server or as a client. BS2000 NFS and the NFS client function of other IT systems can interwork with the UNIX file system in BS2000 via the BS2000 NFS server.

In addition to the server functions, BS2000 NFS also offers the client function for BS2000 users. This client function provides access to other NFS server systems.

NFS components: commands and daemons

The use of NFS is made possible by the POSIX file system. The file system required is exported from the remote computer using the share command and then mounted on the local computer's file system using the mount command.

NFS daemons are mostly system processes that run in the background and coordinate network processes, such as I/O activities for supporting PCs. NFS daemons are started automatically when NFS is started.

Data protection

In a local network, all partner computers with NFS (client function) can access POSIX file systems in BS2000 systems. As the data resources can be shared, special precautions must be taken to prevent unauthorized access. To provide data protection, several protection mechanisms can be used:

- File access rights
- Authorization service
- Protection against access by other system administrators on the network
- Port monitoring

NFS Protocol versions 2 and 3

NFS protocol versions 2 and 3 can be used simultaneously in product version BS2000 NFS V3.0. During the connection setup between client and server, the computers negotiate which NFS protocol version can be used.

Technical details

Requirements

Technical requirements Hardware	Fujitsu Server BS2000 SE Serie
Technical requirements Software	Fujitsu Software BS2000 OS DX V1.0 or OSD/XC V11.0B Optional: - Fujitsu Software BS2000 C/C++ from V3.2
Requirements for the user	Knowledge of BS2000 and UNIX

Installation and operation

Operating mode	Dialog
User interface	English
Installation	By the customer according to the User Guide and Release Notice

Documentation and training

Documentation	The Manual and Release Notice for NFS are available on the manual server .
Training	See course offer (German)

Reference and delivery

Conditions	This software product can be leased by the customer in accordance with the conditions for the use of software products.
Ordering and delivery information	The software product can be obtained from your local Fujitsu regional office.

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