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IBM TCP/IP for VM and MVS and the InterLink NFS Server

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TOPIC -----

This article describes IBM TCP/IP for VM, IBM TCP/IP FOR MVS, and InterLink's products.

DISCUSSION -----

1) IBM TCP/IP for VM:

IBM TCP/IP for VM is a program that operates on a 9370, 43XX, or 30XX to provide the VM user with the capability of participating in a network that uses the TCP/IP protocol. This participation includes the ability to transfer files, send mail, and log on to a network-connected system or host.

TCP/IP for VM uses an S/370 channel to attach to a variety of controllers for connection to the selected network. It supports these network controllers:

- a) LAN Channel Station (8232)
- b) Series/1 with Real Time Programming System

Highlights

IBM TCP/IP for VM includes

- File transfer using FTP (File Transfer Protocol).
- Access to IBM 3270 applications from workstations using Telnet 3270 protocols.
- Remote terminal access using the Telnet protocol to access multivendor hosts.
- Compatibility with IBM Token Ring, IBM PC, Ethernet, ProNet, or X.25 networks.

Additional Features

IBM TCP/IP for VM also has

- Network File System Feature (Server). NFS enables the VM system to act as a file server for vendor systems that have the NFS 3.2 client function installed. Does not include the NFS Client function. This NFS feature also includes Remote Procedure Call (RPC). Both the NFS and RPC protocols adhere to the External Data Representation (XDR) specification so that protocols can be independent of internal machine formats.
- 9370 Integrated X.25 Subsystem (driver)
- CMS X Window System (client) (Version X.11)
- Remote Execution Daemon (server)
- SNA Network Link
- HYPERchannel support (driver)

2) IBM TCP/IP FOR MVS:

As with TCP/IP for VM, this program operates on a 9370, 43XX, or 30XX to provide the MVS user with the capability of participating in a network that uses the TCP/IP protocol.

In addition to the network controllers supported by TCP/IP for VM, this program also supports the 37x5 Communications Controller (X.25).

Highlights

IBM TCP/IP FOR MVS has the same features as TCP/IP for VM, plus:

- Electronic mail to remote terminals using a TSO user interface to the Simple Mail Transfer Protocol.
- C and Pascal subroutine interface to TCP and UDP.

As with TCP/IP for VM, this program also supports:

- Network File System (NFS) Feature (Server)
- Network connections via SNA or X.25 (including DDN)
- X Window System client function

3) InterLink

InterLink implements DECnet as an application under the IBM MVS and VM operating systems. The IBM host becomes a peer node in the DECnet environment allowing transparent communications between IBM and DECnet networks. InterLink's evolving product line includes support for multiple protocol (SNA, DECnet, TCP/IP) connectivity applications.

InterLink and Sun Microsystems jointly developed MVS-based NFS services for the UNIX networking environment. InterLink NFS/Connect software coupled with Sun's specialized IBM channel-connected workstation offer record-level data access to data stored on IBM MVS

operating environments.

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