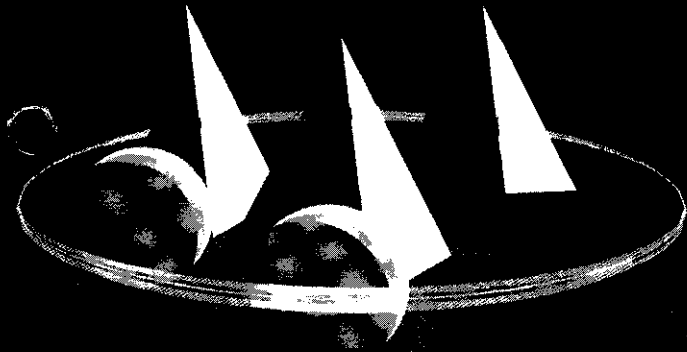


NS-ARPA Services/300 Multi-vendor Networking That Grows With You



NS-ARPA Services/300 is Hewlett-Packard's multi-vendor network product that combines the best of HP's Network Services with the networking services provided by ARPA and Berkeley UNIX* 4.2. As part of HP's AdvanceNet networking strategy, NS-ARPA Services/300 is based on industry standards, offering lasting value and investment protection for your local area network.

With NS-ARPA Services/300, you can link not only your existing HP 9000 computers to each other, but also to other vendors' computers supporting ARPA/Berkeley networking services, such as Sun's, DEC's and IBM's. As a result, you can easily integrate the Series 300 into your current multi-vendor computing environment and create a more productive workplace.



Boost Productivity

NS-ARPA Services/300 lets users breeze through the routine tasks that rob them of productive engineering or programming time.

Defined by the Department of Defense Advanced Research Projects Agency, ARPA services include file transfer protocol, telnet, and simple mail transfer. Communication with both UNIX and non-UNIX systems running ARPA networking services is simple. Remote copy, remote login, and remote shell execution simplify multi-vendor file transfer for systems running Berkeley (BSD) UNIX 4.2 services. Combined with HP's Network Services - network file transfer, remote file access and link level access - NS-ARPA Services/300 offers the communication flexibility that is required in today's computing environment.

NS-ARPA Services/300 also includes Berkeley 4.2 sockets, an interprocess communication programming interface for UNIX users developing distributed applications. Now application developers have machine independence through this standard programming tool that runs on most UNIX machines.

Using the standard ARPA networking services, the Series 300 can communicate with computers on ARPA-based networks, such as DDN (Defense Data Network) and ARPANET, through ARPA gateways.

The HP Network Advantage

NS-ARPA Services/300 provides you with more than just productivity gains. Sharing peripherals on a network can mean big budget savings. And since you need fewer peripherals, you can buy the top-of-the-line printers and plotters, and increase the appearance quality of your work. Sending computation-intensive jobs to a mainframe on the network frees local workstations for other work.

Hewlett-Packard's AdvanceNet strategy relies on providing quality networking products that grow with you, without locking you into a vendor-specific growth path. By employing industry standards - Ethernet, IEEE 802.3, and now, ARPA and Berkeley 4.2 network standards - HP's AdvanceNet network products will continue to serve you.

Backed by Hewlett-Packard's training, service, and support organizations worldwide, NS-ARPA Services/300, and HP's other AdvanceNet products, provide you with longevity, investment protection, and a highly productive technical computing environment.

* UNIX is a trademark of AT&T.



- Hewlett-Packard

- Other Major Vendors

- IBM



Application	ARPA
	NS
Presentation	Berkeley
Session	Berkeley 4.2 Sockets Interface to:
Transport	TCP, UDP, ICMP
Network	IP
Data Link	Link Level Access (LLA) to: Ethernet/IEEE 802.3
Physical	

HP uses the International Standards Organization Open Systems Interconnect (OSI/ISO) model as the basis for HP AdvanceNet product design.

Hewlett-Packard Supported Communication

Check with your Hewlett-Packard sales representative for the latest information on supported operating system versions, networking software, hardware models, and capabilities. Systems tested include:

- NS (Network Services) . HP 9000, HP 3000, DEC VAX/VMS
- ARPA HP Vectra, DEC VAX/VMS, IBM PC AT
- BSD 4.2 SUN, DEC VAX/UNIX

Specifications

- Links Ethernet, IEEE 802.3
- Transports TCP, IP, UDP, ICMP
- Services:
 - ARPA FTP, TELNET, SMTP
 - BSD 4.2 rcp, rlogin, remsh, rexec,
ping, netstat, sendmail
 - NS NFT, RFA, LLA, LANdiag,
linkloop

ThinLAN Cable:

- Data transmission rate 10 Megabits/sec
- Maximum number of nodes 30
- Maximum length of cable segment 185 meters
- Cable Type 10 Base 2 (RG58)

ThickLAN Backbone Cable:

- Data transmission rate 10 Megabits/sec
- Maximum number of nodes 100
- Maximum length of cable segment 500 meters
- Cable Type 10 Base 5

Repeatered LAN:

- Maximum number of segments between systems 3

Find out today how NS-ARPA Services/300 can help you create a more productive computing environment.

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