

PRELIMINARY DATA

Subject to Change

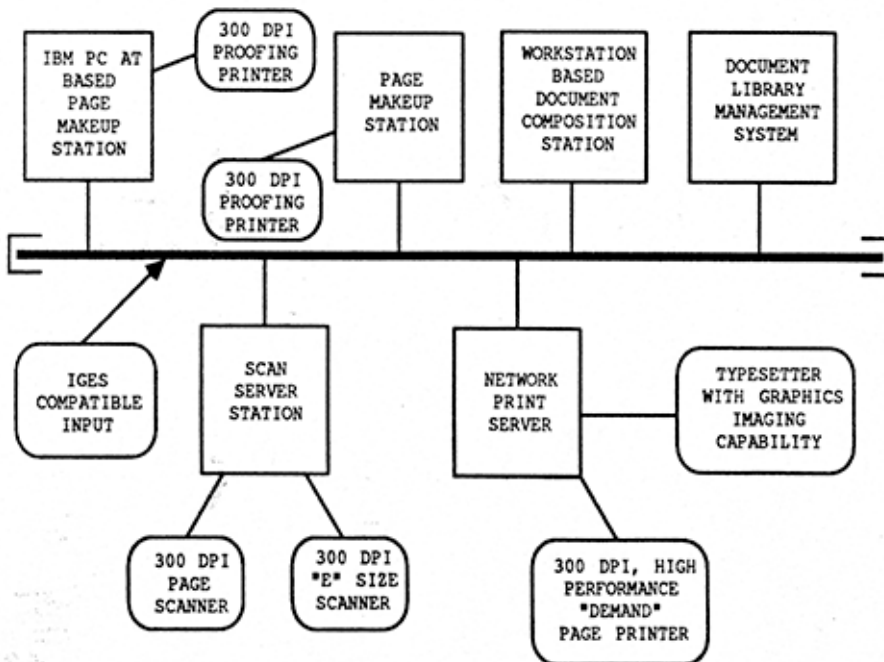
DCMS NETWORKING

THE DOD PROTOCOLS- TCP/IP

The DOD standard protocols, usually referred to as TCP/IP, are a suite of protocols designed to run on a variety of networks. Accent Systems Corporation offers these protocols on the PERQ graphics workstations (PQ4000), DCMS 750,1000,1500 And 2000 to facilitate the transfer of text, binary and image files between the PERQ and other machines, including the Sun Microsystems, Apollo, DEC VAX and Microvax systems.

In addition programmer interfaces are offered to allow applications to be built which incorporate these protocols.

These protocols are used to integrate the workstation on an IEEE 802.3 Ethernet™ network as shown below.



DCMS 500 Networking Software

SUPPORTED PROTOCOLS

INTERNET PROTOCOL (IP)

- Implements Network Layer of the ISO model
- Provides for transmission and reception of data packets (datagrams) between machines
- Provides routing information between networks

MESSAGE PROTOCOL (ICMP)

- Provides the IP layer with information on communication environment

ADDRESS RESOLUTION PROTOCOL (ARP)

- Maps IP addresses to Ethernet addresses

USER DATAGRAM PROTOCOL (UDP)

- Provides process to process communication for datagrams
- Assumes IP layer fully implemented

FILE TRANSFER PROTOCOL (FTP)

- Provides capability to transfer files (text, binary, image etc) from PERQ to various hosts
- Uses the UDP capability to transfer the file

TRANSMISSION CONTROL PROTOCOL (TCP)

- Provides reliable transmission of datagrams from host to host
- Provides for all re-transmission of packets

The material presented here is summary in nature, subject to change, and intended for general information only. Complete details and specifications of PERQ products should be obtained from Accent Systems.

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