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A/UX 3.0 Workstation Information (9/94)

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TOPIC -----

This article contains a series of questions about using Macintosh IIci systems as A/UX workstations.

- 1) How many NuBus slots can be connected as 802.3 Ethernet ports?
- 2) What UNIX is A/UX based on?
- 3) What about the A/UX C compiler?
- 4) Does the current version of A/UX support menu-driven System Administration type of function?
- 5) Are the remote system administration utilities like "rdump" and "rrestore" supported in A/UX?
- 6) Does A/UX support Xerox's Ethernet (XNS)?
- 7) Does A/UX support RFC 943?
- 8) Does A/UX support RFC 951 (Bootstrap Protocol)?
- 9) How many physical layer supported connections can you have?
- 10) How many sockets per session can you have?

DISCUSSION -----

Here are the answers:

- 1) In theory, up to 6 NuBus slots can be connected as 802.3 Ethernet ports.
- 2) The current version of A/UX 3.0 is based on AT&T System V2.2 UNIX with BSD 4.[23] extensions which include software signals and Internetwork facilities. It conforms to SVID (System V Interface Definition) and SVVS (System V Verification Suite). Also the System V3 Streams is supported in A/UX.

- 3) The A/UX C compiler is driven from the standard AT&T System V.2 C compiler. However, it is not ANSI C compatible.
- 4) The current version of A/UX does not support menu driven System Administration type of function.
- 5) The remote system administration utilities like "rdump" and "rrestore" are supported in A/UX.
- 6) Currently, A/UX 3.0 does not support Xerox's Ethernet (XNS), but a third-party might have solution on it, for instance the BSD 4.3 UNIX supports XNS protocol. Porting to any UNIX box should be easy.
- 7) RFC 1117 is pretty standard in Internet. It replaced the obsolete RFC 943. Basically, DDN Network Information Center (NIC) maintains the assigned network number for the Internet community, Class A network is assigned with numbers between 1 and 127, Class B network is assigned with numbers between 128 and 191, and Class C is assigned with numbers between 192 and 255. This is supported by A/UX.
- 8) RFC 951 (Bootstrap Protocol) describes an IP/UDP bootstrap protocol (BOOTP) that lets a diskless client machine discover its own IP address, the address of a server host, and the name of a file to be loaded into memory and executed. The current version of A/UX 3.0 does not support bootp.
- 9) The number of physical layer supported connections can be up to the number of available NuBus slots. (That's 6 in Macintosh IIX.)
- 10) The number of sockets per session can be configured via "kconfig" to as many as the user wishes. However, for the sake of performance, more physical memory is needed if the number of sessions is increased. The default is 16.

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