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A/UX and Raw Sockets (8/94)

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TOPIC ---

I want to use raw sockets in A/UX so that I can set up a TCP/IP address server.
I want to use the raw sockets to check dynamically on the availability of a
TCP/IP address and load an available address into a particular platform.

DISCUSSION --

This sounds like a developer programming issue. The "A/UX Network Application
Programming" documentation is a good reference for writing sockets which include
Stream, Datagram, and Raw sockets. It also includes some sample C code.
Section 11 of 4.3BSD "Networking Implementation Notes" describes details on what
raw sockets are, what their control block structure is, and how the input and
output raw sockets are processed. These notes regarding how raw socket addresses
are handled might be of interest:

   A raw socket interface is datagram oriented. That is, each send or
   receive on the socket requires a destination address. This address may
   be supplied by the user or stored in the control block and automatically
   installed in the outgoing packet by the output routine. Since it is not
   possible to determine whether an address is present or not in the
   control block, two flags, RAW_LADDR and RAW_FADDR, indicate if a local
   and foreign address are present. Routing is expected to be performed by
   the underlying protocol if necessary.

You should also examine the rules of raw socket input and output processing and
see if the rules fit their TCP/IP applications.

The "A/UX Network Applications Programming" document and "A/UX Development
Sources" Version 2.0 on CD-ROM are available from APDA. If you need immediate
assistance on developing their socket codes, we suggest that, as a developer,
you contact MacDTS (Macintosh Developer Technical Support).

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