Booting Xstation 130 over SLIP

Special Notices

Information in this document is correct to the best of our knowledge at the time of this writing. Please send feedback by fax to "AIXServ Information" at (512) 823-4009.

Please use this information with care. IBM will not be responsible for damages of any kind resulting from its use. The use of this information is the sole responsibility of the customer and depends on the customer's ability to evaluate and integrate this information into the customer's operational environment.

ABOUT THIS DOCUMENT

This document describes setting up an Xstation 130 to boot over a SLIP network/interface, and is applicable to AIX versions 3.2, 4.1, and 4.2.

To use SLIP, you need to:

1. Connect the serial-link between the RISC /6000 and the Xstation 130. Connect one end of the RS232 cable to the selected serial port on the RISC System/6000, and the other end to the selected serial port (s0, s1, s2, or s3) on the Xstation 130 or to modem. If a modem is used, connect the selected Xstation serial port to it's modem.
2. Configure the RISC System/6000 as the Host for SLIP.
   a. Enter the host internet address, host name, Xstation internet address, and Xstation name in the nameserver or in the host's /etc/host file.
   b. Configure a tty on the host for SLIP. Using smit tty:
      - Select Add a TTY from the TTY menu.
      - When the pop-up window for TTY Type appears, select tty rs232 Asynchronous Terminal
      - When the pop-up window for Parent Adapter appears, select sa0 for Serial Port 1, and sa1 for Serial Port 2.
      - The Add a TTY menu appears next. Accept the default values for all of the parameters except the following:

PORT number
Press the F4 key to select the correct port number on the RISC System/6000.

BAUD rate

Press the F4 key to select the baud rate. The baud rate should match what is/will be selected on the Xstation 130 (and modem if applicable).

PARITY

"NONE"

BITS per character 8 bit/character should be selected. Number of STOP BITS 1 stop bit should be selected.

Press the Enter key to complete the configuration of the host TTY port.

c. Add a Communications Serial Line Interface to the Host. Using smit tcpip:

- Select Further Configuration
- Select Network Interfaces
- Select Network Interface Selection
- Select Add a Network Interface
- Select Add a Serial Line INTERNET Network Interface
- When the pop-up window for the TTY port appears, select the previously configured TTY port on the RISC System/6000 to be used for the SLIP connection.
- The Add a Serial Line INTERNET Network Interface menu appears, enter the following:

Internet ADDRESS

Enter the SLIP Internet Address for the RISC System/6000 host in dotted decimal format as entered in 2a.

DESTINATION

Enter the SLIP Internet address for the Xstation 130 in dotted decimal format as entered in 2a.

Network MASK

If applicable, enter the network mask in dotted decimal format.

BAUD Rate

If a dial string is used, press F4 to select the correct baud rate to be used for the dial string and modem.

Dial String

If applicable, enter the string used to call the Xstation 130 through the modem. If a modem is NOT used, do not enter any value in the BAUD field.

Press the Enter key to complete the configuration of the Serial Line Interface.

To detach the interface, use "ifconfig InterfaceName down" after terminating the slattach command. The InterfaceName parameter is the name shown by the netstat command (i.e. sl0).

3. Configure the Xstation 130 on the RISC System/6000.

   a. Unless a network type has been defined, use the smit x_config command to display the Xstation Configuration menu.

      - Select Define a Network Type. Provide the parameter values to define an Ethernet network for the Xstation. This network type must use bootfile4.
      - Press Enter to save the defined Ethernet network.
      - Cancel back to the Xstation Configuration Menu.

   b. Add an Xstation using the network type defined above:

      - Select Add an Xstation from Xstation Configuration menu.
      - Select Xstation 130
      - Provide the parameter values for the Xstation. Use the Xstation name added in Step 2a, and the Network Type name defined in Step 3a. Hardware address is not required.

4. Set up the modems, if used, according to their instruction manuals. If desired, the Xstation 130 can be used as an asynchronous terminal to setup and test the modem. Refer to "Selecting Asychronout Terminal Emulation" section of the Xstation 130 Setup and Operators Guide for information on using asynchronous emulation.

5. Configure the Xstation 130 for SLIP at the Xstation.

   a. Power on the Xstation 130.

   b. When the LAN Statistics Screen appears, press the F12 key to set the SLIP parameters.

   c. When the Network Setup menu appears, use the up and down cursor to move the highlighted bar. Enter the following information:

      Primary Network
      Select the SLIP network from which to boot the Xstation.

      Enable SLIP
      Select YES.

      Serial Port
      Select the serial port to which the cable is connected. SERIAL 1 is s0.

      Baud Rate
      Select the correct baud rate (match the RISC System/6000 set in 2b).

Terminal Internet Address
Enter the SLIP internet address for the Xstation 130 in dotted decimal format. This address must match the DESTINATION address configured on the RISC System/6000 in step 2c.

Host Internet Address
Enter the SLIP Internet Address for the RISC System/6000 in dotted decimal format.

Subnet Mask
If applicable, enter the subnet mask in dotted decimal format.

Dial String
If applicable, enter the string used to dial the RISC System/6000 through the modem.

Disable Bootp
Select NO.

d. Press the F12 key to save the Network Setup and return to the LAN Statistics Screen.

08/19/96, 4FAX# 5887,

Reader's Comments

Please fax this form to (512) 823-4009, attention "AIXServ Information". You may also e-mail comments to: elizabet@austin.ibm.com. These comments should include the same customer information requested below.

Use this form to tell us what you think about this document. If you have found errors in it, or if you want to express your opinion about it (such as organization, subject matter, appearance) or make suggestions for improvement, this is the form to use.

If you need technical assistance, contact your local branch office, point of sale, or 1-800-CALL-AIX (for information about support offerings). These services may be billable. Faxes on a variety of subjects may be ordered free of charge from 1-800-IBM-4FAX. Outside the U.S. call 415-855-4329 using a fax machine phone.

When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you.

Note: If you have a problem report or item number, supplying that number may help us determine why a procedure did or did not work in your specific situation.

Problem Report or Item #: Branch Office or Customer #:

Be sure to print your name and fax number below if you would like a reply:

Name: Fax Number:

END OF DOCUMENT (xstn.130.tcp, 4FAX# 5887)