Name: _____

Experiment 1.2

Compile and Download Code to a Network Processor

To learn how to compile network processor applications, download them to a network processor, and test them using lab facilities.

Background Reading And Preparation

Read the directions on compiling a network processor application and accessing a network processor in in your lab. Also consult your lab instructor as to how to how to send packets to your network processor.

Overview

Compile the code for a network processor application that counts packets, load it onto a network processor and test it by sending packets to it.

Procedure And Details (checkmark as each is completed)

_____ Download the code for a simple network processor application that counts packets on a network.

_____ Compile the packet counting application.

_____ Upload the packet count application to the network processor along with any necessary configuration files.

_____ Configure your network so you can send packets to the network processor.

_____ Run the packet count application and transmit packets to the network processor. Make sure the network processor counts the correct number of packets.

Optional Extensions (checkmark options as they are completed)

_____ Try compiling and running other network processor applications such as programs to bridge Ethernet segments or route IP packets.

_____ Stress test the packet count application by flooding the network with as many packets as possible. How well can the application keep up with the network traffic.