A
Smart Port Card
Tutorial
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Distribution

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Schedule: Subject to Change

• All Parts Due Back: July 6
• Out to Fab: July 6
• First 3 SPCs Back from Fab: July 18
• Test 3 SPCs: July 19/20
• Give go ahead to Fab rest: July 20
• Rest of SPCs back from Fab: Mid August
• Testing: 1-2 weeks
• Shipping: September 1
• In your hands: September 4
What You Will Get

• Assembled SPC:
  – SPC board
  – CPU Module attached (33MHz PCI or 25MHz PCI?)
  – System FPGA SProm installed
  – System FPGA boot load jumper installed
  – Memory module installed

• Serial Cables
  – 2 Standard 15 inch PC Serial port jumpers.
  – 2 Standard 10 foot Null Modem cables

• Software: everything you will use in the Exercises
  – SPC Utilities
  – Kernel files with SPC modifications (or a full 1.4.1 source tree?)
  – build scripts
  – boot loader
  – Jammer scripts

Installation

• Install SPC in WUGS (Exercise #4)
  – open switch
  – remove one Line card (Port 4 or 5)
    • Because of the length of the serial jumpers, 4 or 5 are best
    • If you have anything special going on, you may need to rearrange
      switch line cards.
  – install one SPC
  – install two serial jumpers
    • remove one spare port front panel port connector
    • remove PC face plates from serial jumpers
    • put screws back in serial connector to hold it together.
    • feed serial jumpers in from the outside
    • connect to SPC serial port connectors
  – re-install Line card
  – close switch
Installation

• Connect Serial cables to PC
  – connect one end of null modem cables to the jumpers at front of switch
  – connect other end of null modem cables to PC serial ports
• Install software distribution as /usr/SPC
  – Of course, you can install it wherever you want:
    • BUT, some of the scripts are currently looking for /usr/SPC

Testing

• Try running through the Exercises again
• Set up two switches, each with an SPC
  – Get IP running between them