Projects

• Networking
  – Compression (e.g. Huffman, Lempel-Ziv)
  – Regex matching (hardware grep)
  – Cryptographic accelerators (RC4, Blowfish etc)

• CPUs
  – Parallel single instruction computer
    http://www.cs.uiowa.edu/~jones/arch/risc/
  – Forth machine
    http://www.ultratechnology.com/p16vhdl.htm
  – Java machine http://www.jopdesign.com
  – Peripherals (uart, parallel, interfacing etc)

Projects (ctd)

• Arithmetic
  – Floating point, LNS multiplier/adder/divider
  – CORDIC

• Analog
  – DLL, PLL, random number generator

• Interfacing
  – SD, CF, IR, hard disk etc