AVR Tools for EPOS

Installed tools

All AVR tools are installed in sv1:/usr/local/avr/ as follows:

(gdb) target remote localhost:4242Inovoking insight (gdb graphical front-end)

insight app/atmega16_app

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• gcc/
     gcc 3.3.2 (c,c++), binutils 2.16, avrlibe 1.4
     target modification: no stack reset on main function
     binaries: avr-*
   • gcc.testing/
     gcc 4.0.2 (c,c++), binutils 2.16, avrlibc 1.4
     target modification: no stack reset on main function
     binaries: avr-*
   • gcc.mature/
     gcc 3.3.2 (c,c++), binutils 2.14, avrlibc 1.0
     binaries: avr-elf-*
   • tools/
     avarice (CVS Snapshot from 2005-12-14)
     uisp (TinyOS CVS Checkout on 2005-12-14)
     avrdude 5.0
     avr-gdb 6.4
     avr-insight (CVS Snapshot from 2005-12-14 [gdb 6.4])
Instructions for using the tools:
   • Dumping all symbols from elf images:
     # avr-objdump -x app/atmega16_app
   • Disassembling elf images:
     # avr-objdump -S app/atmega16_app
   • Converting elf images into intel hex for upload:
     # avr-objcopy -0 ihex img/epos.img epos.hex
   • Uploading intel hex images with uisp (Mica2 motes)
     # uisp -dprog=mib510 -dpart=ATMEGA128 -dserial=/dev/ttyUSB0 --erase --upload --verify if=epos.hex
   • Uploading intel hex images with avrdude (STK500 with 2.x firmware)
     # avrdude -P /dev/ttyUSB0 -c stk500v2 -p m128 -U flash:w:epos.hex
     -C /usr/local/avr/tools/etc/avrdude.conf
   ullet Uploading \emph{elf} images with avarice for debugging (JTAG mkII)
     # avarice -2 --program --file app/atmega16_app --jtag /dev/ttyUSB0 :4242
   • Opening connection to target in gdb
     # gdb app/atmega16_app
```