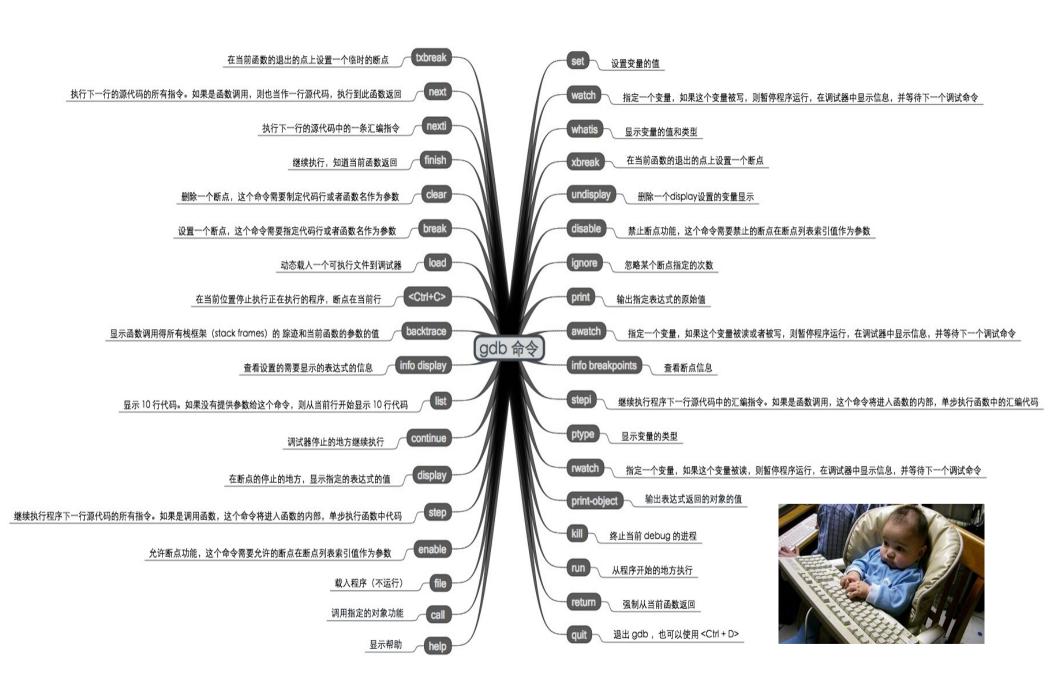
开源工具构建 ARM JTAG 调试环境

Orson Zhai 2014.9.13

软件调试





[1] http://www.vingel.com/tools/reference/gdb-commands-list.png

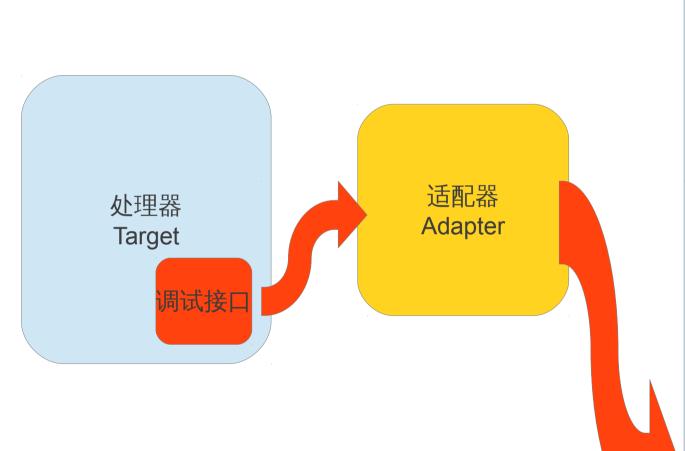


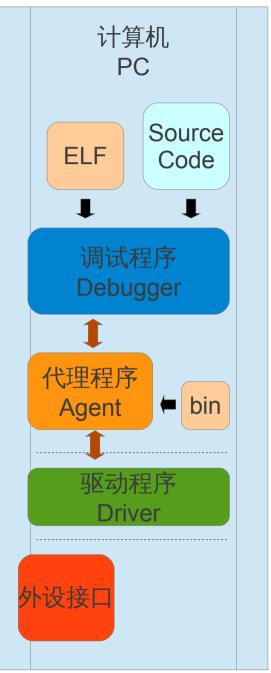
硬件调试









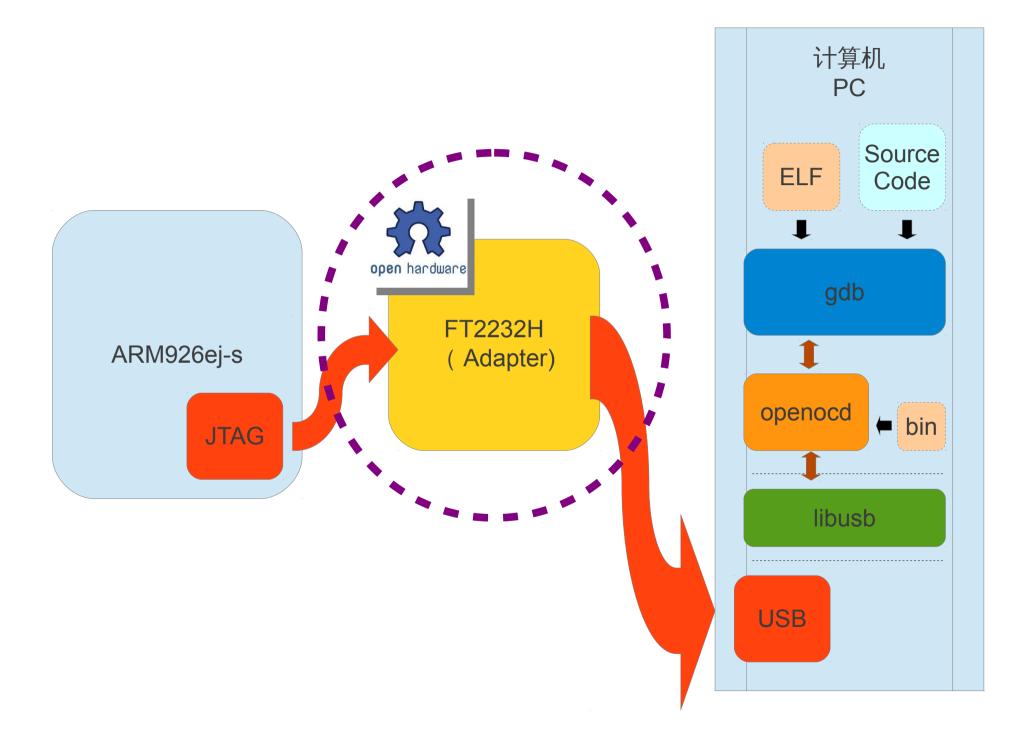


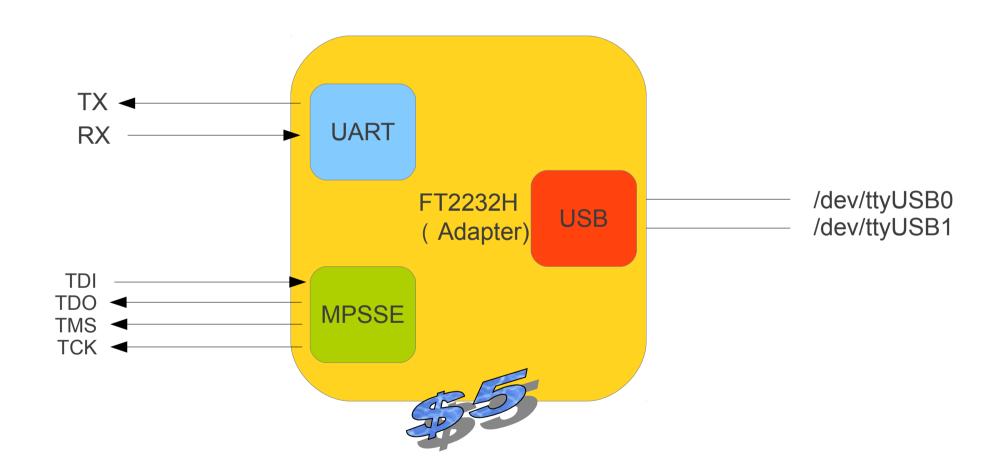


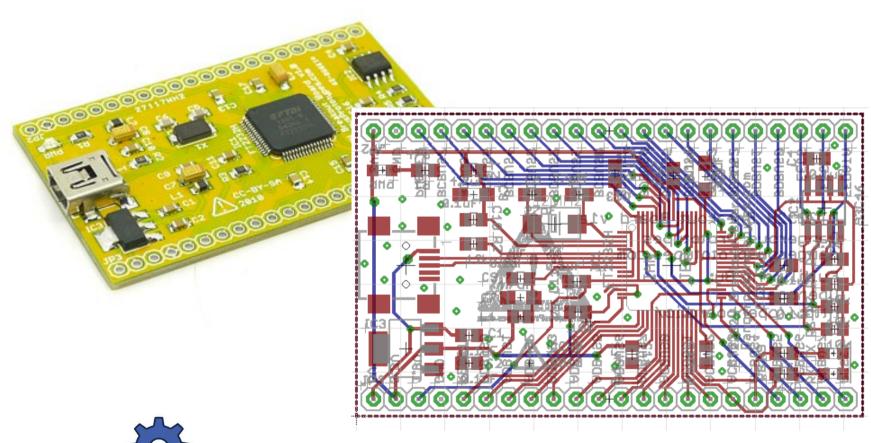


界脈









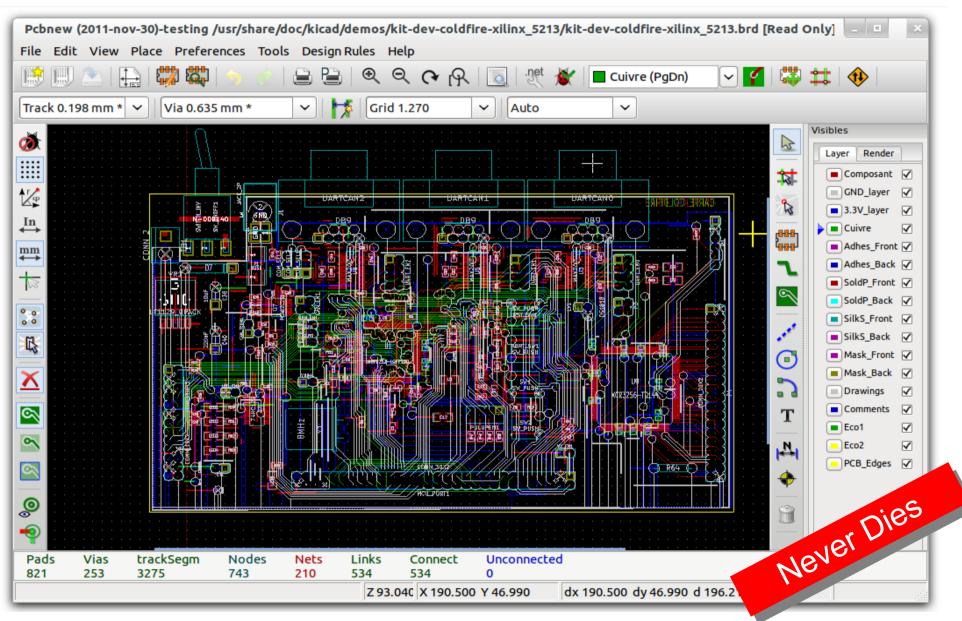


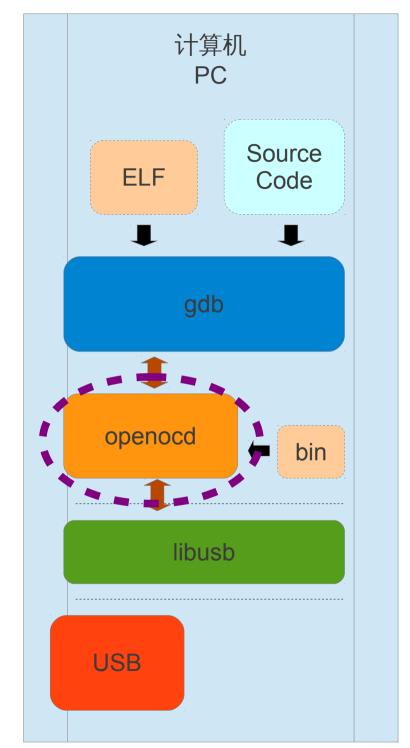
open hardware

EDA 制板的 Vim

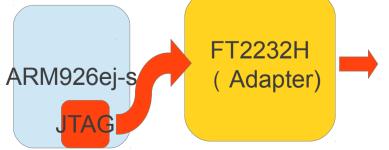


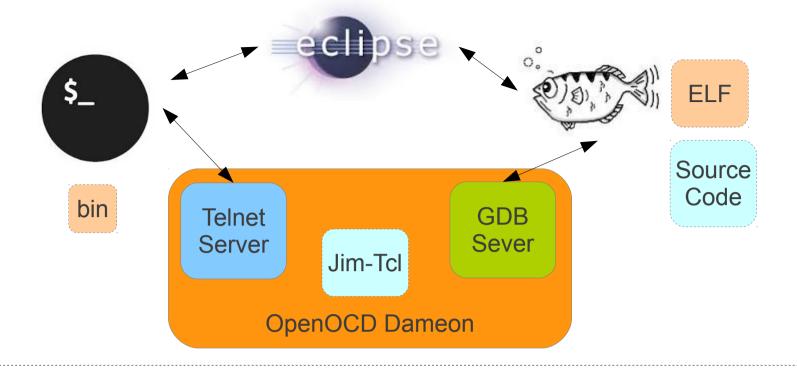
KiCAD EDA Software Suite











On-chip Flash

Target
CPU/MCU

Off-chip
Flash

支持处理器类型 (Targets)

ARM11, ARM7, ARM9, AVR32, Feroceon/Dragonite

DSP563xx,

DSP5680xx,

Open On-Chip Debugger

nd Open On-Chip Debugging, In-System Programming and Boundary-Scan Te

About / Impressum

Openood, the Open On-Chip Debugger has been created by Dominic Rath as part of a diploma thesis at the University of Applied Sciences, FH-Augsburg. For other material presented on this site, see the respective notes of authorship.

http://openocd.sourceforge.net/

支持适配器类型 (Adapters)

AICE, ARM-JTAG-EW, ARM-USB-OCD, ARM-USB-TINY, AT91RM9200, axm0432, BCM2835, Bus Blaster, Buspirate, Chameleon, CMSIS-DAP, Cortino, DENX, Digilent JTAG-SMT2, DLC 5, DLP-USB1232H, embedded projects, eStick. FlashLINK, FlossITAG, Flyswatter, Flyswatter2, Gateworks, Hoegl, ICDI, ICEBear, J-Link, JTAG VPI, JTAGkey, JTAGkey2, JTAG-lock-pick, KT-Link, Lisa/L, LPC1768-Stick, MiniModule, NGX, NXHX, OOCDLink, Opendous, OpenJTAG, Openmoko, OpenRD, About / ImprOSBDM, Presto, Redbee, RLink,

SheevaPlug . Mailing Lie

Pages

devkit, Stellaris evkits, ST-LINK (SWO tracing supported), STM32-PerformanceStick, STR9-comStick, sysfsgpio, TUMPA, Turtelizer, ULINK, USB-A9260, USB-Blaster, USB-JTAG, USBprog, VPACLink, VSLLink,

Wiggler, XDS100v2, Xverve

Jim-Tcl 命令脚本 高度可配置 文档页 100+

http://openocd.sourceforge.net/doc/pdf/openocd.pdf

安装 OpenOCD

git clone git://git.code.sf.net/p/openocd/code

```
# cd openocd-0.8.0
# ./configure
# make
# make
# make install
# openocd -f interface.cfg -f board.cfg
```

连接 OpenOCD Console

```
orson@zhai:~$ telnet localhost 4444
Trying :: 1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Open On-Chip Debugger
> help
```

GDB 连 OpenOCD

```
$ arm-none-eabi-gdb example.elf
(gdb) target remote localhost:3333
Remote debugging using localhost:3333
(gdb) monitor reset halt
(gdb) load
Loading section .vectors, size 0x100
Transfer rate: 22 KB/sec, 573
bytes/write.
(gdb) continue
Continuing.
```

Demo

 Target => Openboard Pegasus (<u>http://github.com/openbrd/pegasus</u>)



- Adaper => DP-FT2232H Break-out
- OS => Ubuntu 12.10
- Agent => Openocd 0.8.0
- GDB => arm-none-eabi-gdb v7.4
- Program => Niuboot (<u>http://github.com/openbrd/niuboot</u>)

作快乐"板农",来开源社区!

网站: http://openboard.io/

论坛: <u>bbs.openboard.io</u>

邮件列表: <u>openbrd@googlegroups.com</u>

IRC: #openboard 房间 @irc.freenode.net

QQ 群: <u>262285750</u>

Hacking-space:

北京上地八维校区 C4#201 房间



微信群