

## Microsemi Bitstream Programming

ORCA RISC V with the VectorBlox MXP™ Matrix Processor

## First Time

Start VM and Terminal app

```
$ cd ~
```

NATIVE FlashPro Users
Drag & drop
vectorblox\_tutorial/FPExpress
folder to host OS

```
$ git clone https://github.com/riscv/riscv-4th-
workshop-tutorials.git
```

Program FPGA bitstream

```
$ cd riscv-4th-workshop-tutorials/
$ cd vectorblox_tutorial/
$ source env.sh
$ cd software; vi main.c ; make clean all; cd ..
$ ./program.sh fpga #(FPGA & ELF, 15min)
$ ./program.sh #(ELF only, 90seconds)
```

See LEDs blink, "Hello World" and audio pass-thru

```
$ cat /dev/ttyUSB2
```