## 基于 Ubuntu 的 risc\_v tools 安装指南

## 安装:

- 1, sudo apt update
- 2, sudo apt upgrade
- 3, sudo apt-get install git
- 4. sudo apt-get install autoconf automake autotools-dev curl libmpc-dev libmpfr-dev libgmp-dev libusb-1.0-0-dev gawk build-essential bison flex texinfo gperf libtool patchutils bc zlib1g-dev device-tree-compiler pkg-config libexpat-dev
- 5 git clone https://github.com/riscv/riscv-tools.git
- 6, cd riscv-tools
- 7、 git submodule update --init --recursive
- 8 git clone https://github.com/riscv/riscv-gnu-toolchain
- 9、cd riscv-gnu-toolchain
- 10, git submodule update --init --recursive
- 11, su
- 12. ./configure --prefix=/opt/riscv
- 13, make
- 14\ export PATH=/opt/riscv/bin:\$PATH
- 15、cd...
- 16 export RISCV=/path/to/install/riscv/toolchain
- 17、./build.sh
- 18 export PATH=/path/to/install/riscv/toolchain/bin:\$PATH
- 19、修改.bashrc

export PATH=/opt/riscv/bin:\$PATH

export PATH=/path/to/install/riscv/toolchain/bin:\$PATH

20、安装 gvim

## 测试:

1、riscv64-unknown-elf-gcc

屏幕输出: fatal error:no input files

2, spike

屏幕输出一系列的命令参数