

```
cd ~
vim .bashrc
ctrl+g
i
```

```
# 插入的内容: export
$ export
```

`PATH=/home/darrenpig/yocto-poky/bitbake/bin:$PATH`

```
$ bitbake --version
```

BitBake Build Tool Core version 1.50.0

换行

Esc

冒号:wq

保存文件并退出 Vim 编辑器。

```
source ~/.bashrc
```

注: 如果不执行 `source` 命令, 则需重启系统才能生效

```
mkdir $HOME/hello
```

```
cd $HOME/hello
```

```
bitbake
```

```
BBPATH="$HOME/hello"
```

```
export BBPATH
```

```
bitbake
```

`conf/bitbake.conf`

bitbake根据找到的`conf`文件路径自动生成`TOPDIR`变量

临时变量, 为了方便配置, 也可以不设置

```
TMPDIR = "${TOPDIR}/tmp"
```

指定BitBake用于存储元数据缓存的目录, 这样就不需要每次启动BitBake时都对其进行解析。

```
CACHE = "${TMPDIR}/cache"
```

指定用于创建配方戳文件的基本路径。实际戳文件的路径是通过对该字符串求值, 然后附加附加信息来构建的。

```
STAMP = "${TMPDIR}/${PN}/stamps"
```

指向BitBake在构建特定配方时放置临时文件的目录, 这些文件主要由任务日志和脚本组成。

```
T = "${TMPDIR}/${PN}/work"
```

```
$ bitbake
```



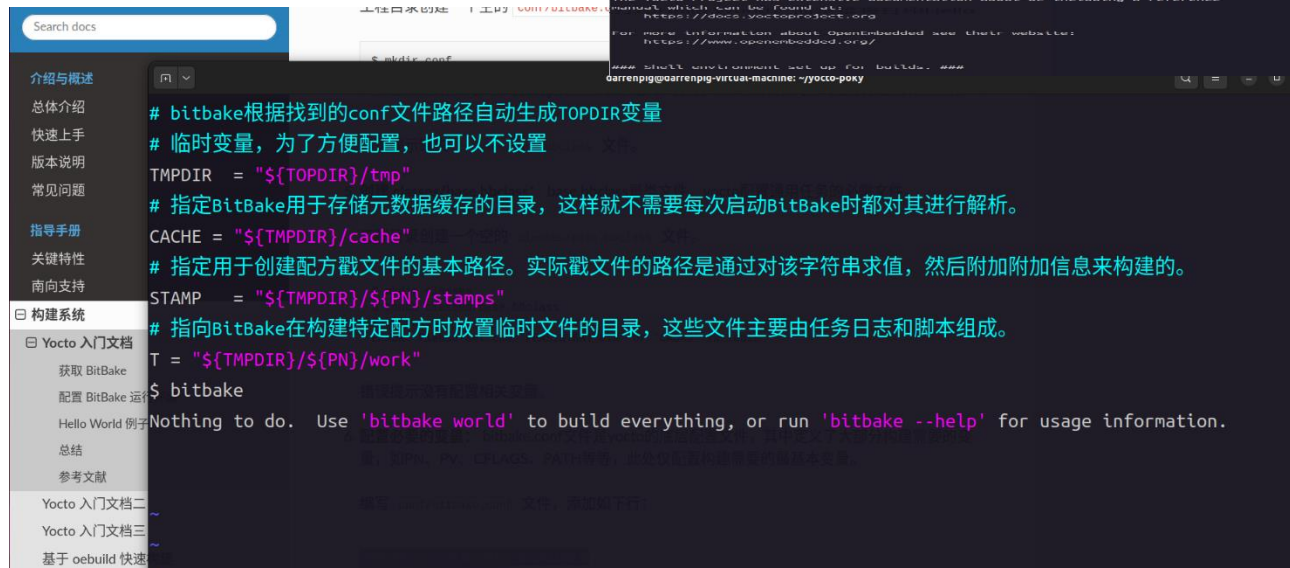
进入输入或取代的编辑模式	
i, I	进入输入模式(Insert mode): i 为「从当前光标所在处输入」, I 为「在目前所在行的第一个非空格符处开始输入」, (常用)
a, A	进入输入模式(Insert mode): a 为「从当前光标所在的下一个字符处开始输入」, A 为「从光标所在行的最后一个字符处开始输入」, (常用)

3. 设置 `BBPATH`: `BBPATH`与`PATH`使用方法类似, bitbake在`BBPATH`设置路径下查找需要的`conf/xxx.conf` 文件, 若没有设置, 则在当前目录查找需要的文件。

设置`BBPATH`为工程目录。

```
$ BBPATH="$HOME/hello"
$ export BBPATH
$ bitbake
ERROR: Unable to find conf/bblayers.conf or conf/bitbake.conf. BBPATH is unset and/or not in a build directory?
```

```
darrenpig@darrenpig-virtual-machine: /yocto-poky/bitbake$ cd ~
darrenpig@darrenpig-virtual-machine: ~$ vln .bashrc
darrenpig@darrenpig-virtual-machine: ~$ source ~/.bashrc
BitBake Build Tool Core version 1.50.0
BitBake: 未找到命令
darrenpig@darrenpig-virtual-machine: ~$ bitbake --version
BitBake Build Tool Core version 1.50.0
darrenpig@darrenpig-virtual-machine: ~$ mkdir $HOME/hello
mkdir: 无法创建目录 '/home/darrenpig/hello': 文件已存在
darrenpig@darrenpig-virtual-machine: ~$ cd $HOME/hello
darrenpig@darrenpig-virtual-machine: ~/hello$ bitbake
ERROR: Unable to find conf/bblayers.conf or conf/bitbake.conf. BBPATH is unset and/or not in a build directory?
darrenpig@darrenpig-virtual-machine: ~/hello$ BBPATH="$HOME/hello"
darrenpig@darrenpig-virtual-machine: ~/hello$ export BBPATH
darrenpig@darrenpig-virtual-machine: ~/hello$ vln .bashrc
darrenpig@darrenpig-virtual-machine: ~/hello$ source ~/.bashrc
BitBake Build Tool Core version 1.50.0
BitBake: 未找到命令
darrenpig@darrenpig-virtual-machine: ~/hello$ bitbake
ERROR: Unable to find conf/bblayers.conf or conf/bitbake.conf. BBPATH is unset and/or not in a build directory?
darrenpig@darrenpig-virtual-machine: ~/hello$ mkdir conf
darrenpig@darrenpig-virtual-machine: ~/hello$ touch conf/bitbake.conf
darrenpig@darrenpig-virtual-machine: ~/hello$ BBPATH="$HOME/hello"
```



Nothing to do. Use 'bitbake world' to build everything, or run 'bitbake --help' for usage information.

构建目标配方：绑定源

下载“tree”查看结构

```
darrenpig@darrenpig-virtual-machine:~/yocto-poky$ source oe-init-build-env
You had no conf/local.conf file. This configuration file has therefore been
created for you with some default values. You may wish to edit it to, for
example, select a different MACHINE (target hardware). See conf/local.conf
for more information as common configuration options are commented.

You had no conf/bblayers.conf file. This configuration file has therefore been
created for you with some default values. To add additional metadata layers 要创建一
into your configuration please add entries to conf/bblayers.conf.

The Yocto Project has extensive documentation about OE including a reference
manual which can be found at:
  https://docs.yoctoproject.org 必要，但创建一个层是一个好的实践，方便保持你的代
位于bitbake使用的通用元数据。
For more information about OpenEmbedded see their website:
  https://www.openembedded.org/

### Shell environment set up for builds. ###

You can now run 'bitbake <target>'
在中心必须存在 conf/layer.conf 文件，定义层bb文件所在位置等。编写 conf/layer.conf
Common targets are:
  core-image-minimal
  core-image-full-cmdline
  core-image-sato
  core-image-weston
  meta-toolchain
  meta-ide-support
  meta-ide-support-layer

You can also run generated qemu images with a command like 'runqemu qemu86'

Other commonly useful commands are:
- 'devtool' and 'recipetool' handle common recipe tasks
- 'bitbake-layers' handles common layer tasks
- 'oe-pkgdata-util' handles common target package tasks
darrenpig@darrenpig-virtual-machine:~/yocto-poky/build$ sudo apt install tree
正在读取软件包列表... 完成
正在分析软件包的依赖关系树... 完成
正在读取状态信息... 完成
下列【新】软件包将被安装：
  tree
升级了 0 个软件包，新安装了 1 个软件包，要卸载 0 个软件包，有 183 个软件包未被
需要下载 47.9 kB 的归档。
解压缩后会消耗 116 kB 的额外空间。
获取:1 http://mirrors.tuna.tsinghua.edu.cn/ubuntu jammy/universe amd64 tree amd64
已下载 47.9 kB，耗时 1秒 (49.1 kB/s)
正在选中未选择的软件包 tree。
(正在读取数据库 ... 系统当前共安装有 214880 个文件和目录。)
准备解压 .../tree_2.0.2-1_amd64.deb ...
正在解压 tree (2.0.2-1) ...
正在设置 tree (2.0.2-1) ...
正在处理用于 man-db (2.10.2-1) 的触发器 ...
darrenpig@darrenpig-virtual-machine:~/yocto-poky/build$ tree
.
├── conf
│   ├── bblayers.conf
│   ├── local.conf
│   └── templateconf.cfg
└── 1 directory, 3 files
darrenpig@darrenpig-virtual-machine:~/yocto-poky/build$ S
```

DarrenPig
24.1.31