PRACTICAL EXAM
RTES

LEVEL 0

Baseline

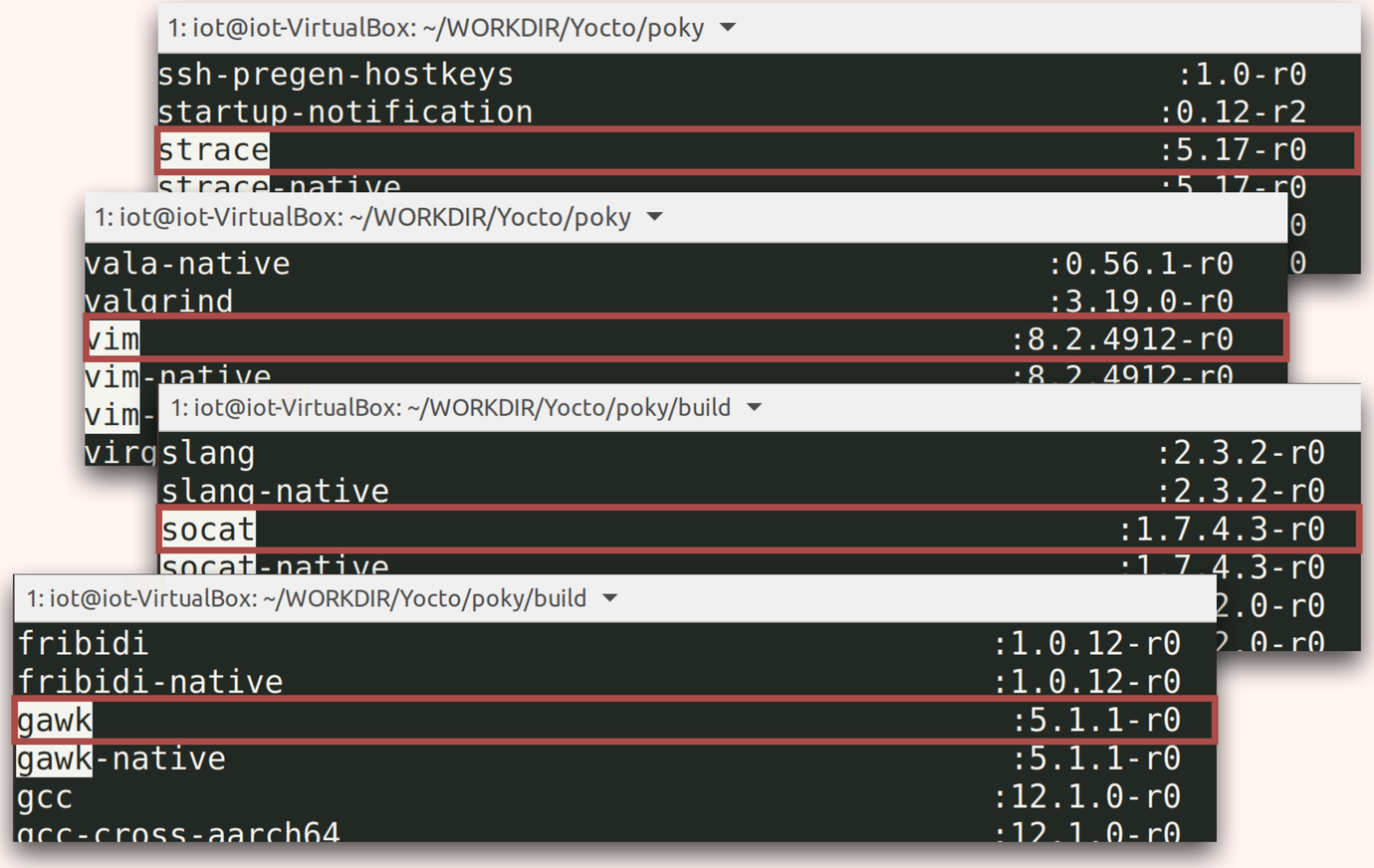
PACKAGES INSTALLATION

First

Check which of the following packages can be installed without downloading them from the internet.

bitbake -s | less

strace
socat
vim
gawk



PACKAGES INSTALLATION

Add Packages

Add all the packages in the *local.conf* file using the *IMAGE_INSTALL* keyword and the *:append* particle.

Doing so they will be installed.

build/conf/local.conf

```
...
IMAGE_INSTALL:append = " strace”
IMAGE_INSTALL:append = " socat"
IMAGE_INSTALL:append = " vim"
IMAGE_INSTALL:append = " gawk”
...
```

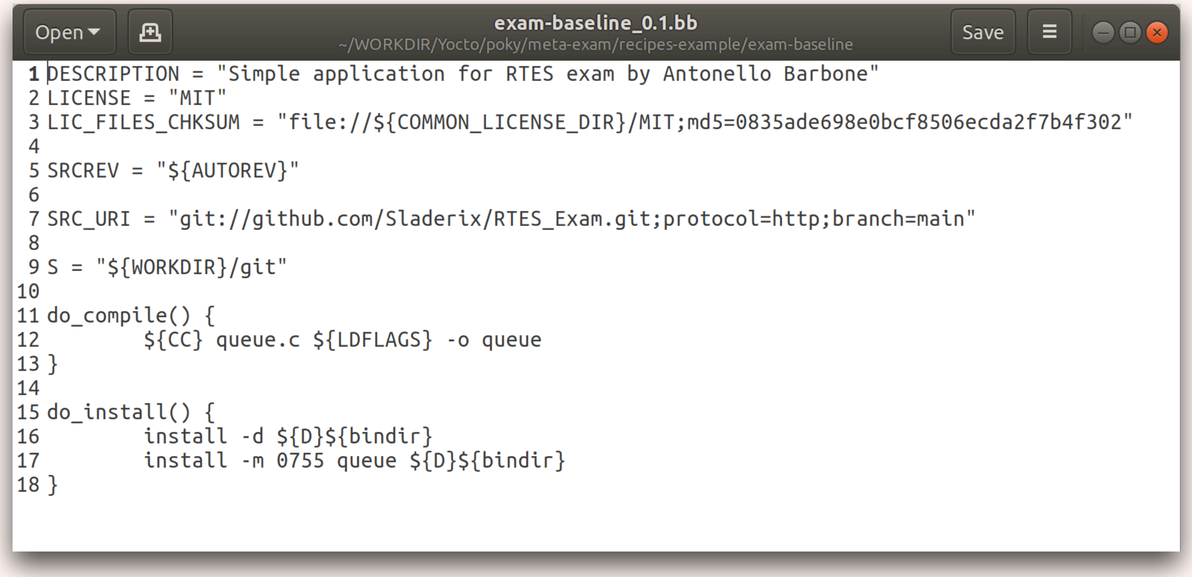
CUSTOM APPLICATION

Coding

The custom application is coded in *C* and then uploaded to a GitHub repository.

Yocto Recipe

The recipe is configured to download the repository and take the *C* file from there.



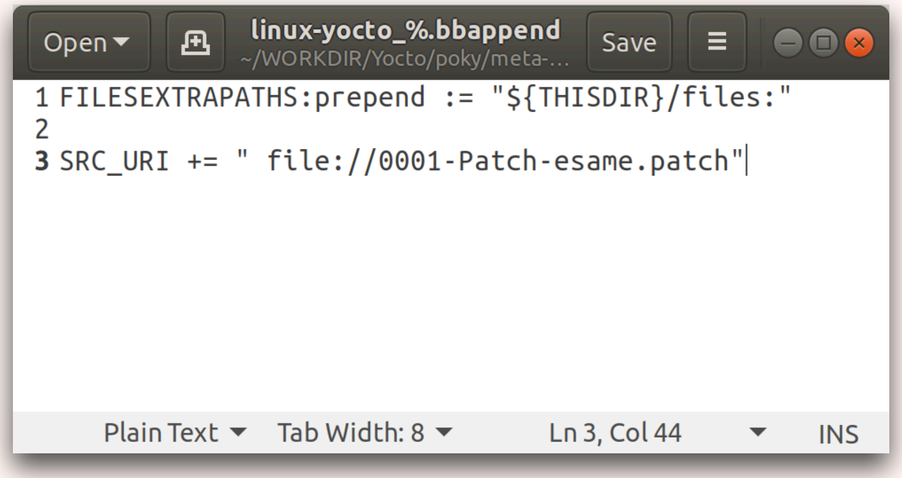
LEVEL 1

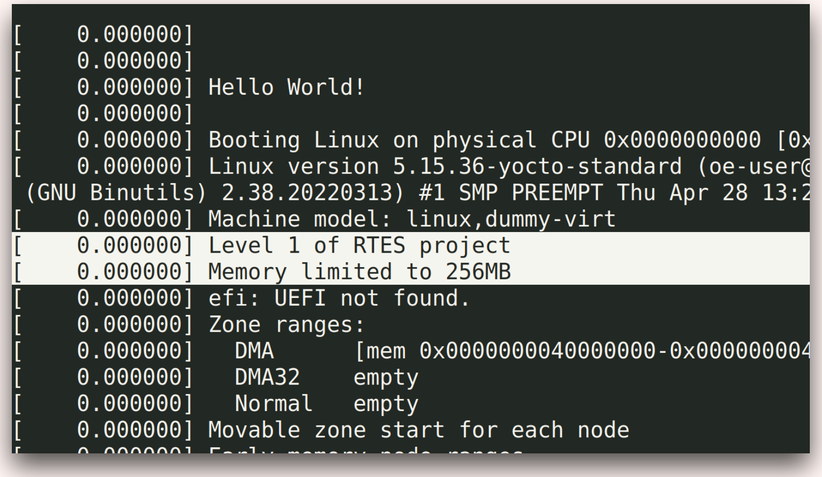
Advanced

PATCHING

Add the Patch

In the *meta/meta-exam/* layer folder, created for the exam, was create also the *recipe-kernel/linux/* folder needed to contain the patches for the kernel. In this last folder is contained the *.bbappend* file that specifies where to get the patch file (E.g. contained in the *files/* folder).





LEVEL 2

Expert

THREAD APPLICATION

Coding

The thread application is coded in *C* and then uploaded to a GitHub repository.

Yocto Recipe

The recipe is configured to download the repository and take the *C* file from there.

The flag *-lpthread* is specified to the cross-compiler.