



Set-Up Steps

Environment Set-Up

```
git clone  
git checkout  
cd poky
```

```
source oe-init-build-env build_qemuarm  
  
modify loca.conf:  
MACHINE ?= "qemuarm"
```

```
bitbake core-image-minimal
```

```
runqemu qemuarm nographic
```

test

Qemu Set-Up

```
./configure  
make
```

```
start qemu:  
manually  
or  
./bitbake_run_auto.sh script
```

```
add a device  
virt.h  
virt.c  
virt_sha.c
```

```
compile with the new device  
Kconfig  
Makefile.objs  
config-devices.mak  
arm-softmmu.mak
```

test

test

```
bitbake-layers create-layer ../meta-example  
bitbake-layers add-layer ../meta-example/
```

```
mkdir virt-sha  
cd virt-sha
```

```
virt-sha.bb
```

```
file to cross  
compile for  
application
```

```
driver  
Makefile
```

Image Set-Up

```
exec sudo /home/mattia/Desktop/progetto/poky/build_qemuarm/tmp/work/x86_64-linux/qemu-system- ,→ native/4.2.0-r0/qemu-4.2.0/arm-  
softmmu/qemu-system-arm -device virtio-net-device, ,→ netdev=net0,mac=52:54:00:12:34:02 -netdev tap,id=net0,ifname=tap0,script=no, ,→  
downscript=no -drive id=disk0,file=/home/mattia/Desktop/progetto/poky/build_qemuarm ,→  
/tmp/deploy/images/qemuarm/$root_fs,if=none,format=raw -device virtio-blk-device, ,→ drive=disk0 -show-cursor -device VGA,edid=on -  
device qemu-xhci -device usb-tablet - ,→ device usb-kbd -object rng-random,filename=/dev/urandom,id=rng0 -device virtio-rng- ,→  
pci,rng=rng0 -nographic -machine virt,highmem=off -cpu cortex-a15 -m 256 -serial ,→ mon:stdio -serial null -kernel  
/home/mattia/Desktop/progetto/poky/build_qemuarm/tmp ,→ /deploy/images/qemuarm/zImage -append 'root=/dev/vda rw console=ttyS0  
mem=256M ip ,→ =192.168.7.2::192.168.7.1:255.255.255.0 console=ttyAMA0 '
```