History

```
itzroma@itzroma-VirtualBox: ~/repos/busybox
tzroma@itzroma-VirtualBox:~/repos/busybox$ history
        1 sudo apt update
               sudo apt upgrade
sudo apt install git vim vim-gtk tree curl
sudo apt install ccache
                 ccache -M 5G
                 ccache -s
                ccache -C
tree ~/.ccache
                 cd Downloads/
    10
                ls
               sudo tar xJvf gcc-arm-8.3-2019.03-x86_64-arm-eabi.tar.xz -C /opt/
sudo tar xJvf gcc-arm-8.3-2019.03-x86_64-arm-linux-gnueabihf.tar.xz -C /opt/
    13
14
                sudo apt install make libncurses5-dev libssl-dev bc bison flex
               mkdir -/repos/
git clone https://gitlab.denx.de/u-boot/u-boot.git
cd u-boot/
git checkout v2019.01
    18
    20
                git revert --no-edit d30ba2315ae3
export PATH=/opt/gcc-arm-8.3-2019.03-x86_64-arm-eabi/bin:$PATH
export CROSS_COMPILE='ccache arm-eabi-'
    22
                 export ARCH=arm
    24
25
26
27
                 make am335x_boneblack_defconfig
                 make -j4
                 ls
               ls
cd ~/re
cd ~/re
cd ~/re
cd ~/repos/
git clone git://git.kernel.org/pub/scm/linux/kernel/git/stable/linux-stable.git
git clone git://git.busybox.net/busybox
sudo apt install qemu-sustem-arm
sudo apt install qemu-system-arm
cd linux-stable/
sit_checkput_linux-4_19_v
    29
30
    33
34
                git checkout linux-4.19.y
export PATH=/opt/gcc-arm-8.3-2019.03-x86_64-arm-eabi/bin:$PATH
export CROSS_COMPILE='ccache arm-eabi-'
    36
    37
38
                 export ARCH=arm
                mkdir fragments
gedit fragments/bbb.cfg
                 ./scripts/kconfig/merge_config.sh arch/arm/configs/multi_v7_defconfig fragments/bbb.cfg
make -j4 zImage modules am335x-boneblack.dtb
    40
                  ls arch/arm/boot/
                 ls dts/
    44
                 u
                ls arch/arm/boot/dts/
cd ../busybox/
git checkout 1_31_stable
    47
    48
                 export ARCH=arm
                 export PATH=/opt/gcc-arm-8.3-2019.03-x86_64-arm-linux-gnueabihf/bin:$PATH export CROSS_COMPILE="ccache arm-linux-gnueabihf-" make defconfig
    50
51
                make -j4
make install
    52
                 \label{libproc} \verb|mkdir -p _install/{boot,dev,etc | finit.d, lib,proc,root, sys | kernel | finit.d, lib,proc, root, sys | finit.d, lib, sys | finit.d, lib
```

```
55 gedit _install/etc/init.d/rc5
56 chmod +x _install/etc/init.d/rc5
57 ln -s bin/busybox _install/init
58 cd _install/box _install/box _install/init
59 cd _ricepos/linux-stable/arch/arm/boot/zImage .
60 cp -/repos/linux-stable/arch/arm/boot/dts/ama35x-boneblack.dtb .
61 cp -/repos/linux-stable/system.map .
62 cp -/repos/linux-stable/config ./config
63 cd .
64 cd -/repos/linux-stable/ .
65 export INSTALL_MOD_PATH=-/repos/busybox/_install
66 export INSTALL_MOD_PATH=-/repos/busybox/_install
67 export INSTALL_MOD_PATH=-/repos/busybox/_install
68 cd .
69 S{CROSS_COMPILE}readelf -d _install/bin/busybox | grep NEEDED
60 cd _install/lib
71 libc_dir=S{S(CROSS_COMPILE}pcc -print-sysroot)/lib
72 cp -a Slibc_dir/s.so* .
73 cd .
74 echo 'SMODALIAS=-* root:root 660 @modprobe "SMODALIAS"' > _install/etc/ndev.conf
75 echo 'root:x:0:'> _install/etc/group
76 echo 'root:x:0:oroot:/root:/bin/sh' > _install/etc/passwd
77 echo 'root:x:0:oroot:/root:/bin/sh' > _install/etc/passwd
78 echo 'root:x:0:oroot:/root:/bin/sh' > _install/etc/passwd
79 echo 'root:x:0:oroot:/root:/sinstall/etc/pasoup
80 echo 'root:x:0:oroot:/root:/sinstall/etc/pasoup
81 cd .
82 qenu-system-arm -kernel _install/boot/zImage -initrd rootfs.cplo.gz -machine virt -nographic -m 512 --append "root=/dev/ram0 rw console=ttyAMA0,115200 mem=512M"
83 history
```

QEMU console