МІНІСТЕРСТВО ОСВІТИ ТА НАУКИ УКРАЇНИ
НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ УКРАЇНИ
«КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ ІМЕНІ ІГОРЯ СІКОРСЬКОГО»
ФАКУЛЬТЕТ ІНФОРМАТИКИ ТА ОБЧИСЛЮВАЛЬНОЇ ТЕХНІКИ
КАФЕДРА ОБЧИСЛЮВАЛЬНОЇ ТЕХНІКИ

ЗВІТ

з лабораторної роботи №4

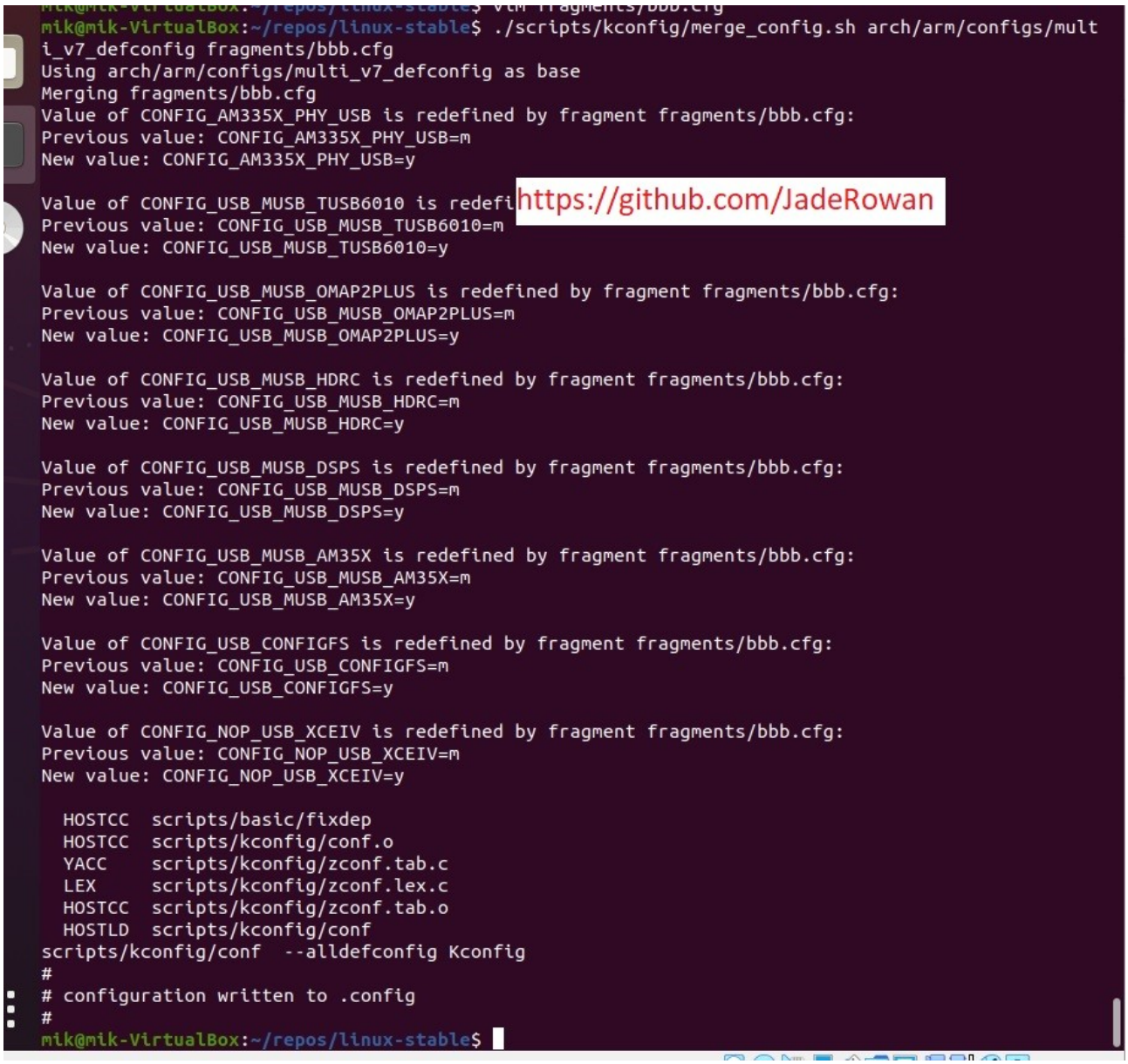
з дисципліни «Архітектура Комп'ютера-2 Процесори»

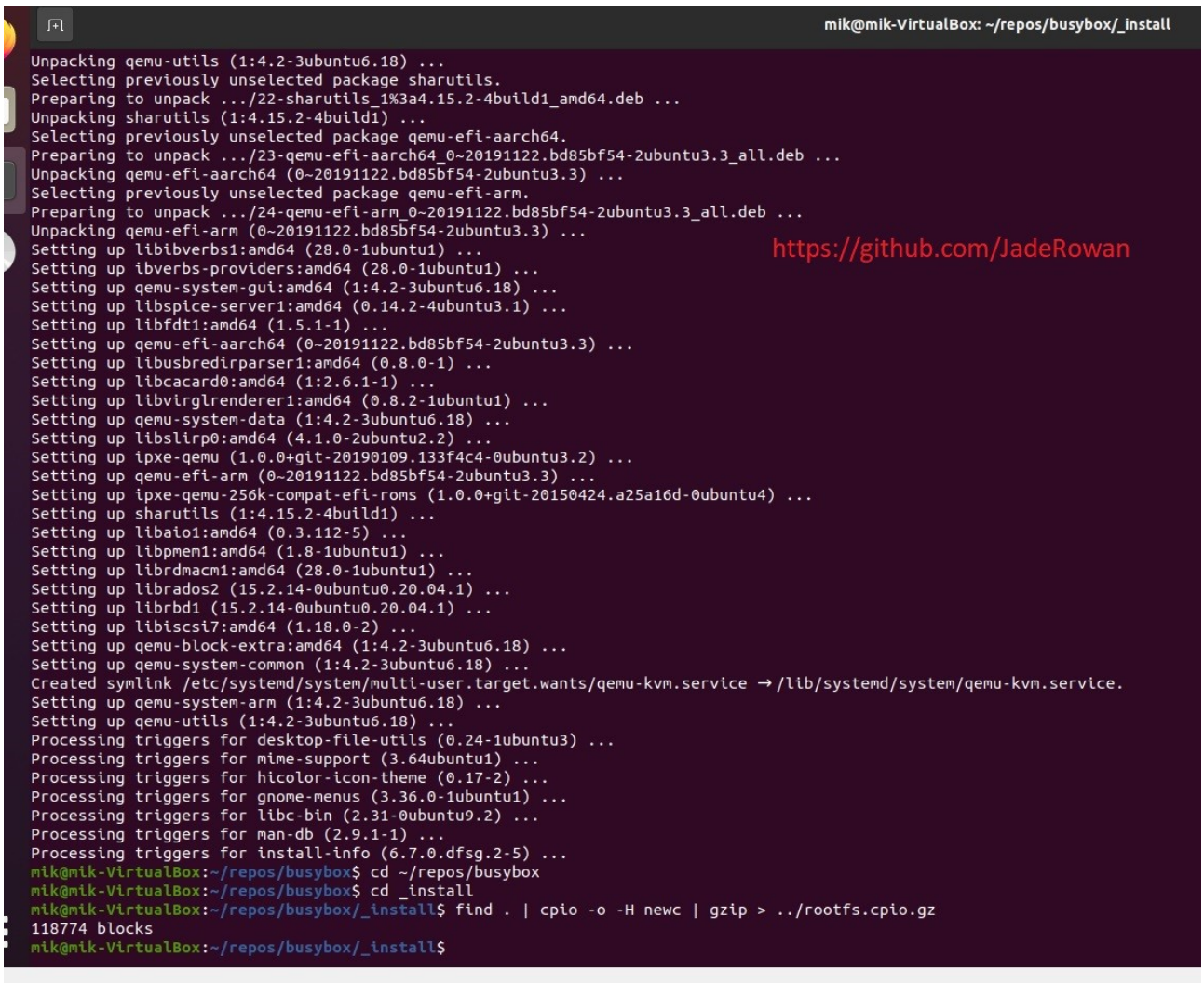
на тему *« Підготовка та налаштування плати ВВВ»*

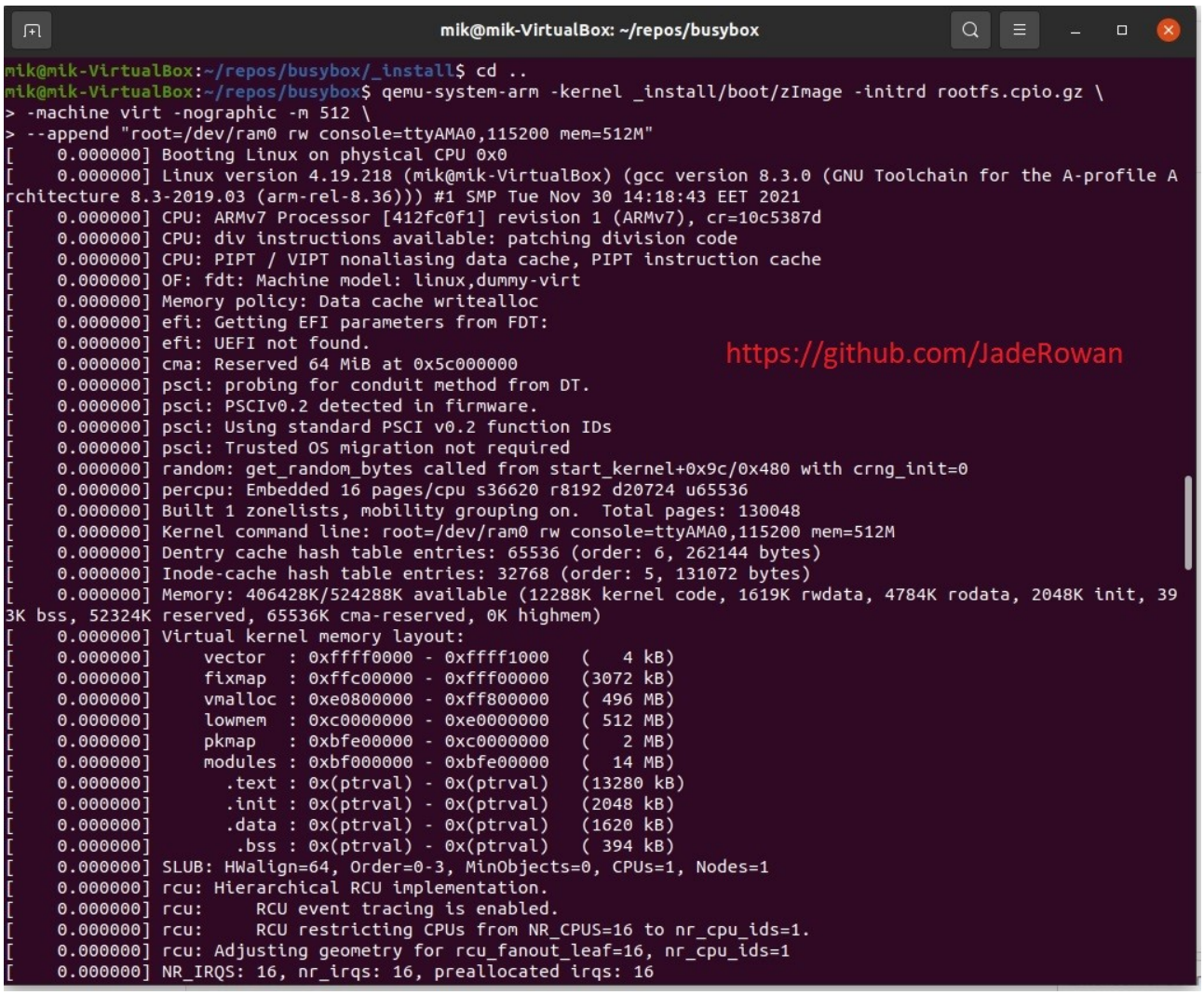
Виконав:
студент групи ІВ-93
Тарнавський М. О.
Номер залікової – 9330

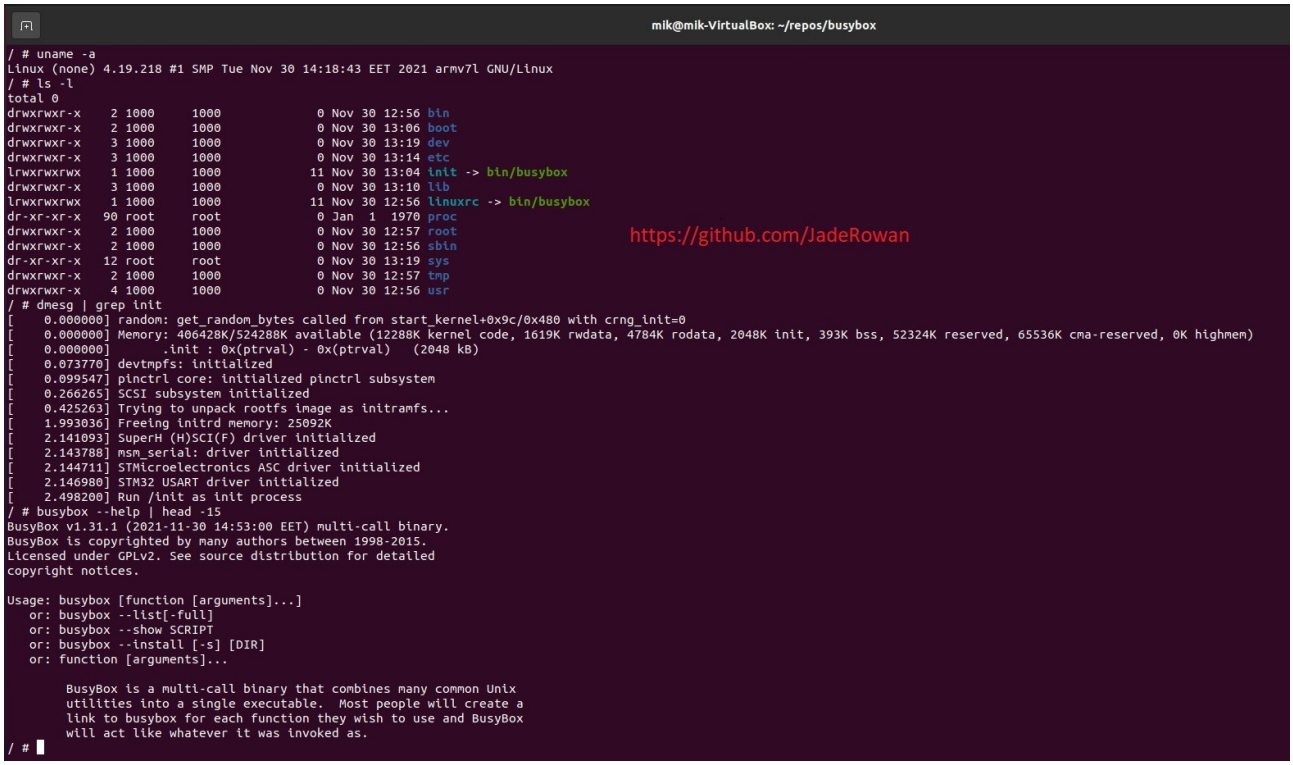
Перевірив:
Нікольський С. С.

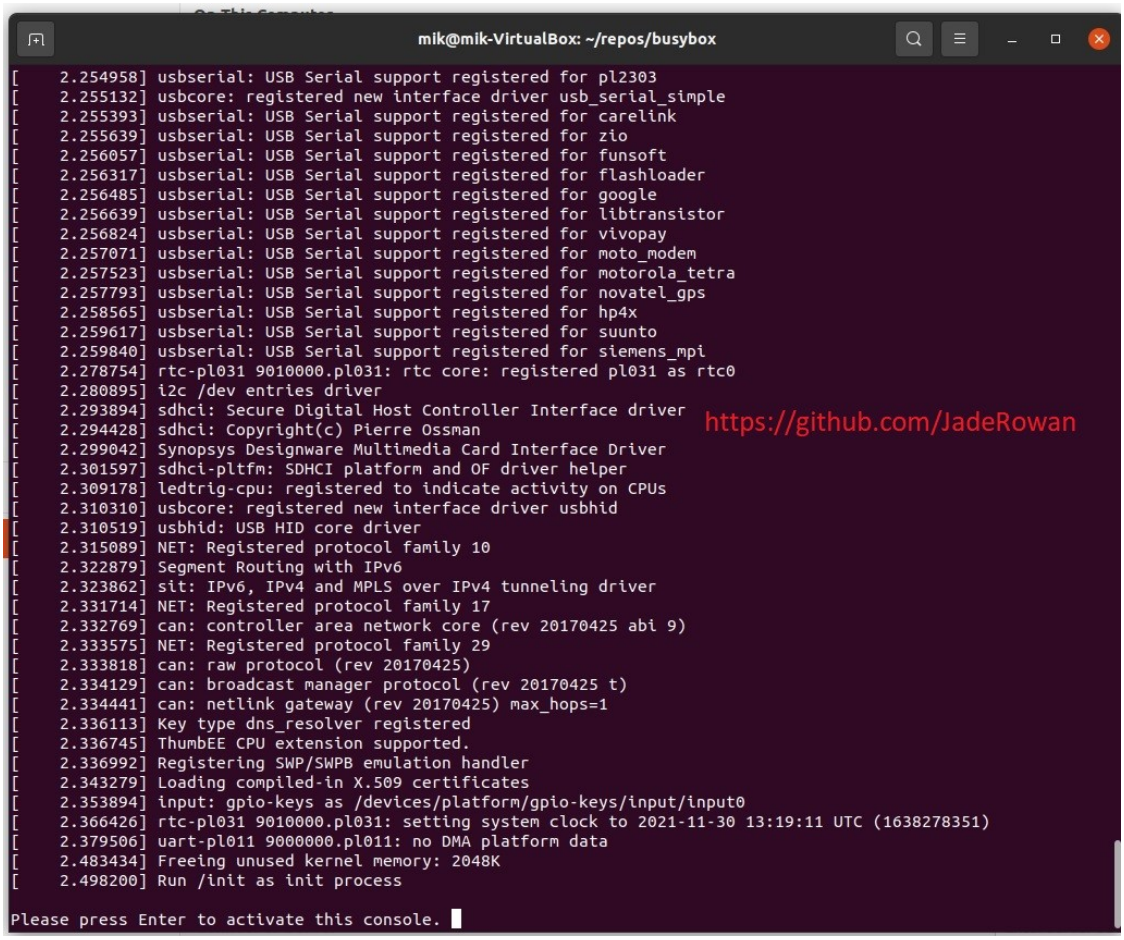
Київ 2021

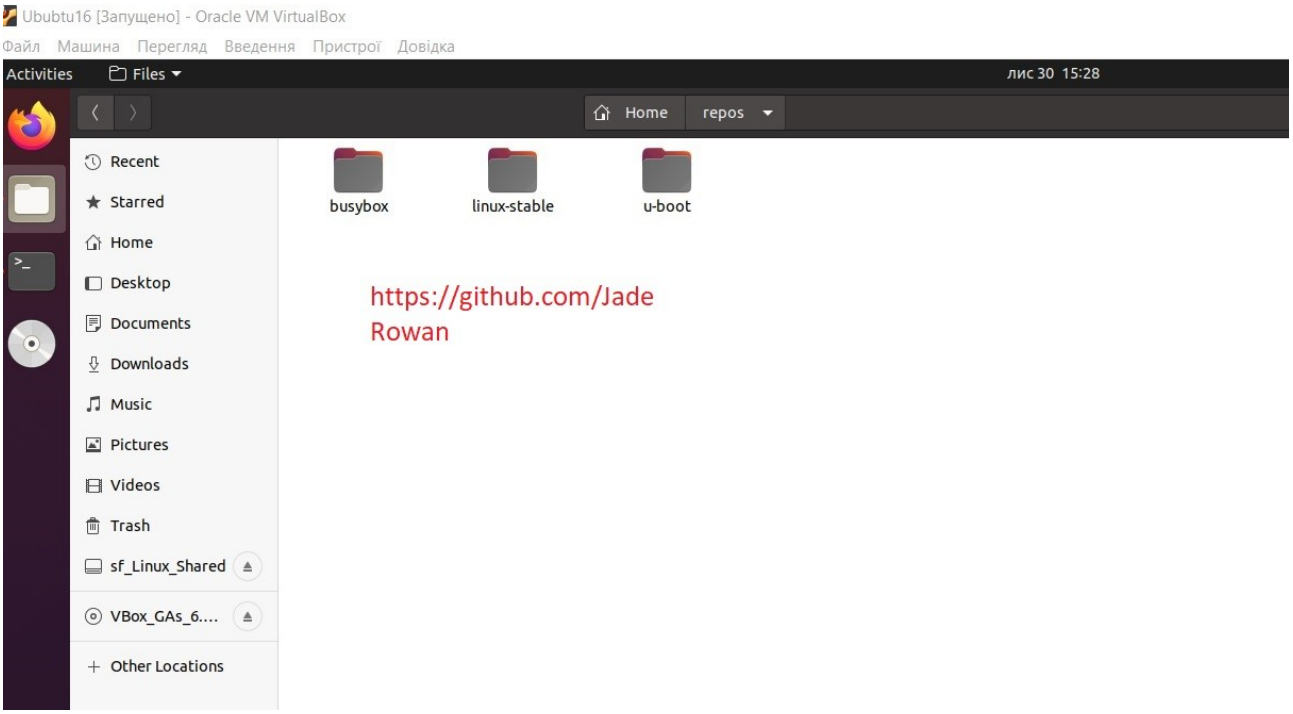

mik@mik-VirtualBox:~/repos/linux-stable$ ./scripts/kconfig/merge_config.sh arch/arm/configs/multi_v7_defconfig fragments/bbb.cfg
Using arch/arm/configs/multi_v7_defconfig as base
Merging fragments/bbb.cfg
Value of CONFIG_AM335X_PHY_USB is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_AM335X_PHY_USB=m
New value: CONFIG_AM335X_PHY_USB=y
Value of CONFIG_USB_MUSB_TUSB6010 is redefi
https://github.com/JadeRowan
Previous value: CONFIG_USB_MUSB_TUSB6010=m
New value: CONFIG_USB_MUSB_TUSB6010=y
Value of CONFIG_USB_MUSB_OMAP2PLUS is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_USB_MUSB_OMAP2PLUS=m
New value: CONFIG_USB_MUSB_OMAP2PLUS=y
Value of CONFIG_USB_MUSB_HDRC is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_USB_MUSB_HDRC=m
New value: CONFIG_USB_MUSB_HDRC=y
Value of CONFIG_USB_MUSB_DSPS is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_USB_MUSB_DSPS=m
New value: CONFIG_USB_MUSB_DSPS=y
Value of CONFIG_USB_MUSB_AM35X is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_USB_MUSB_AM35X=m
New value: CONFIG_USB_MUSB_AM35X=y
Value of CONFIG_USB_CONFIGFS is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_USB_CONFIGFS=m
New value: CONFIG_USB_CONFIGFS=y
Value of CONFIG_NOP_USB_XCEIV is redefined by fragment fragments/bbb.cfg:
Previous value: CONFIG_NOP_USB_XCEIV=m
New value: CONFIG_NOP_USB_XCEIV=y
HOSTCC scripts/basic/fixdep
HOSTCC scripts/kconfig/conf.o
YACC scripts/kconfig/zconf.tab.c
LEX scripts/kconfig/zconf.lex.c
HOSTCC scripts/kconfig/zconf.tab.o
HOSTLD scripts/kconfig/conf
scripts/kconfig/conf --alldefconfig Kconfig
#
configuration written to .config
#
mik@mik-VirtualBox:~/repos/linux-stable$

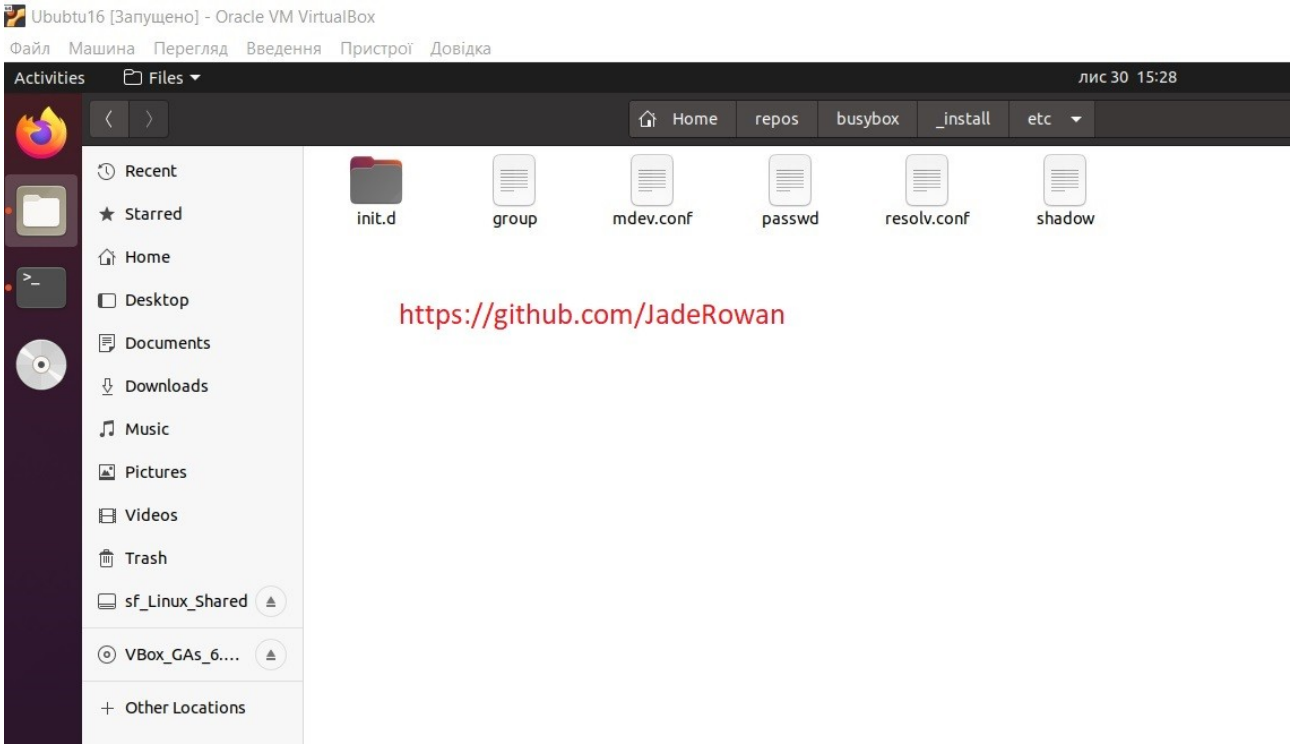

mik@mik-VirtualBox: ~/repos/busybox/_install
Unpacking qemu-utils (1:4.2-3ubuntu6.18) ...
Selecting previously unselected package sharutils.
Preparing to unpack .../22-sharutils_1%3a4.15.2-4build1_amd64.deb ...
Unpacking sharutils (1:4.15.2-4build1) ...
Selecting previously unselected package qemu-efi-aarch64.
Preparing to unpack .../23-qemu-efi-aarch64_0~20191122.bd85bf54-2ubuntu3.3_all.deb ...
Unpacking qemu-efi-aarch64 (0~20191122.bd85bf54-2ubuntu3.3) ...
Selecting previously unselected package qemu-efi-arm.
Preparing to unpack .../24-qemu-efi-arm_0~20191122.bd85bf54-2ubuntu3.3_all.deb ...
Unpacking qemu-efi-arm (0~20191122.bd85bf54-2ubuntu3.3) ...
Setting up libibverbs1:amd64 (28.0-1ubuntu1) ...
https://github.com/JadeRowan
Setting up ibverbs-providers:amd64 (28.0-1ubuntu1) ...
Setting up qemu-system-gui:amd64 (1:4.2-3ubuntu6.18) ...
Setting up libspice-server1:amd64 (0.14.2-4ubuntu3.1) ...
Setting up libfdt1:amd64 (1.5.1-1) ...
Setting up qemu-efi-aarch64 (0~20191122.bd85bf54-2ubuntu3.3) ...
Setting up libusbredirparser1:amd64 (0.8.0-1) ...
Setting up libcacard0:amd64 (1:2.6.1-1) ...
Setting up libvirglrenderer1:amd64 (0.8.2-1ubuntu1) ...
Setting up qemu-system-data (1:4.2-3ubuntu6.18) ...
Setting up libslirp0:amd64 (4.1.0-2ubuntu2.2) ...
Setting up ipxe-qemu (1.0.0+git-20190109.133f4c4-0ubuntu3.2) ...
Setting up qemu-efi-arm (0~20191122.bd85bf54-2ubuntu3.3) ...
Setting up ipxe-qemu-256k-compat-efi-roms (1.0.0+git-20150424.a25a16d-0ubuntu4) ...
Setting up sharutils (1:4.15.2-4build1) ...
Setting up libaio1:amd64 (0.3.112-5) ...
Setting up libpmem1:amd64 (1.8-1ubuntu1) ...
Setting up librdmacm1:amd64 (28.0-1ubuntu1) ...
Setting up librados2 (15.2.14-0ubuntu0.20.04.1) ...
Setting up librbd1 (15.2.14-0ubuntu0.20.04.1) ...
Setting up libiscsi7:amd64 (1.18.0-2) ...
Setting up qemu-block-extra:amd64 (1:4.2-3ubuntu6.18) ...
Setting up qemu-system-common (1:4.2-3ubuntu6.18) ...
Created symlink /etc/systemd/system/multi-user.target.wants/qemu-kvm.service → /lib/systemd/system/qemu-kvm.service.
Setting up qemu-system-arm (1:4.2-3ubuntu6.18) ...
Setting up qemu-utils (1:4.2-3ubuntu6.18) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for install-info (6.7.0.dfsg.2-5) ...
mik@mik-VirtualBox:~/repos/busybox$ cd ~/repos/busybox
mik@mik-VirtualBox:~/repos/busybox$ cd _install
mik@mik-VirtualBox:~/repos/busybox/_install$ find . | cpio -o -H newc | gzip > ../rootfs.cpio.gz
118774 blocks
mik@mik-VirtualBox:~/repos/busybox/_install$

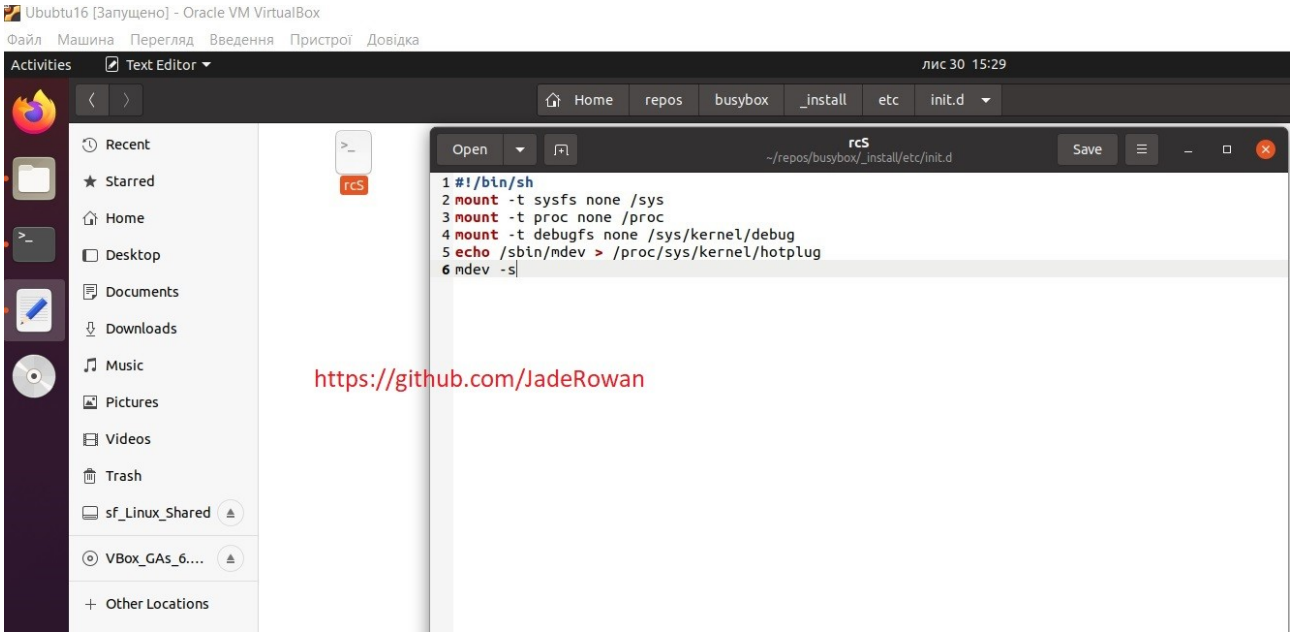

mik@mik-VirtualBox: ~/repos/busybox
mik@mik-VirtualBox:~/repos/busybox/_install$ cd ..
mik@mik-VirtualBox:~/repos/busybox$ qemu-system-arm -kernel _install/boot/zImage -initrd rootfs.cpio.gz \
> -machine virt -nographic -m 512 \
> --append "root=/dev/ram0 rw console=ttyAMA0,115200 mem=512M"
[0.000000] Booting Linux on physical CPU 0x0
[0.000000] Linux version 4.19.218 (mik@mik-VirtualBox) (gcc version 8.3.0 (GNU Toolchain for the A-profile Architecture 8.3-2019.03 (arm-rel-8.36))) #1 SMP Tue Nov 30 14:18:43 EET 2021
[0.000000] CPU: ARMv7 Processor [412fc0f1] revision 1 (ARMv7), cr=10c5387d
[0.000000] CPU: div instructions available: patching division code
[0.000000] CPU: PIPT / VIPT nonaliasing data cache, PIPT instruction cache
[0.000000] OF: fdt: Machine model: linux,dummy-virt
[0.000000] Memory policy: Data cache writealloc
[0.000000] efi: Getting EFI parameters from FDT:
[0.000000] efi: UEFI not found.
[0.000000] cma: Reserved 64 MiB at 0x5c000000
[0.000000] psci: probing for conduit method from DT.
[0.000000] psci: PSCIv0.2 detected in firmware.
[0.000000] psci: Using standard PSCI v0.2 function IDs
[0.000000] psci: Trusted OS migration not required
[0.000000] random: get_random_bytes called from start_kernel+0x9c/0x480 with crng_init=0
[0.000000] percpu: Embedded 16 pages/cpu s36620 r8192 d20724 u65536
[0.000000] Built 1 zonelists, mobility grouping on. Total pages: 130048
[0.000000] Kernel command line: root=/dev/ram0 rw console=ttyAMA0,115200 mem=512M
[0.000000] Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
[0.000000] Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
[0.000000] Memory: 406428K/524288K available (12288K kernel code, 1619K rwdata, 4784K rodata, 2048K init, 393K bss, 52324K reserved, 65536K cma-reserved, 0K highmem)
[0.000000] Virtual kernel memory layout:
[0.000000] vector : 0xffff0000 - 0xffff1000 (4 kB)
[0.000000] fixmap : 0xffc00000 - 0xfff00000 (3072 kB)
[0.000000] vmalloc : 0xe0800000 - 0xff800000 (496 MB)
[0.000000] lowmem : 0xc0000000 - 0xe0000000 (512 MB)
[0.000000] pkmap : 0xbfe00000 - 0xc0000000 (2 MB)
[0.000000] modules : 0xbf000000 - 0xbfe00000 (14 MB)
[0.000000] .text : 0x(ptrval) - 0x(ptrval) (13280 kB)
[0.000000] .init : 0x(ptrval) - 0x(ptrval) (2048 kB)
[0.000000] .data : 0x(ptrval) - 0x(ptrval) (1620 kB)
[0.000000] .bss : 0x(ptrval) - 0x(ptrval) (394 kB)
[0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[0.000000] rcu: Hierarchical RCU implementation.
[0.000000] rcu: RCU event tracing is enabled.
[0.000000] rcu: RCU restricting CPUs from NR_CPUS=16 to nr_cpu_ids=1.
[0.000000] rcu: Adjusting geometry for rcu_fanout_leaf=16, nr_cpu_ids=1
[0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irqs: 16
https://github.com/JadeRowan

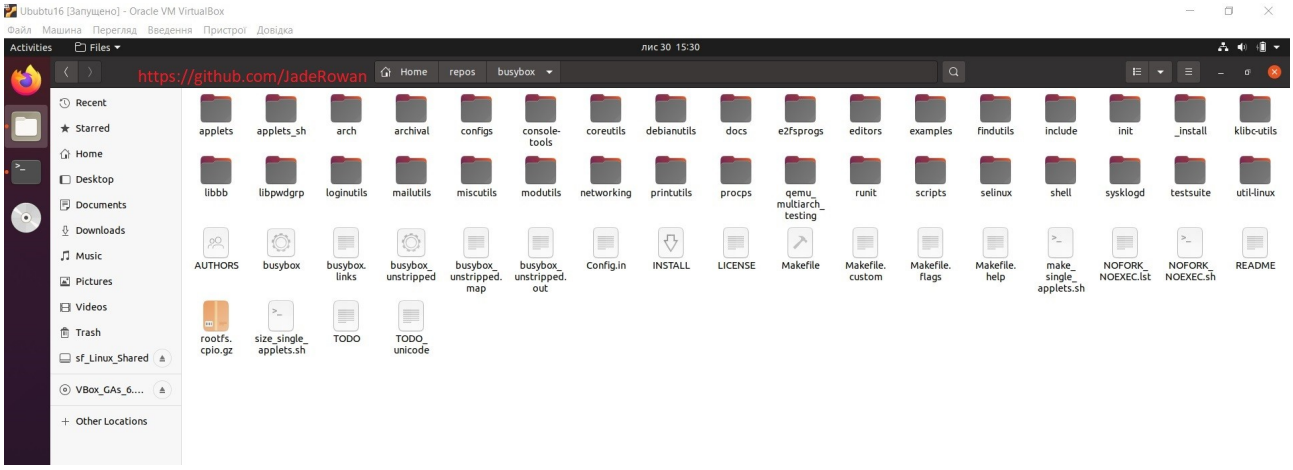

mik@mik-VirtualBox: ~/repos/busybox
/ # uname -a
Linux (none) 4.19.218 #1 SMP Tue Nov 30 14:18:43 EET 2021 armv7l GNU/Linux
/ # ls -l
total 0
drwxrwxr-x 2 1000 1000 0 Nov 30 12:56 bin
drwxrwxr-x 2 1000 1000 0 Nov 30 13:06 boot
drwxrwxr-x 3 1000 1000 0 Nov 30 13:19 dev
drwxrwxr-x 3 1000 1000 0 Nov 30 13:14 etc
lrwxrwxrwx 1 1000 1000 11 Nov 30 13:04 init -> bin/busybox
drwxrwxr-x 3 1000 1000 0 Nov 30 13:10 lib
lrwxrwxrwx 1 1000 1000 11 Nov 30 12:56 linuxrc -> bin/busybox
dr-xr-xr-x 90 root root 0 Jan 1 1970 proc
drwxrwxr-x 2 1000 1000 0 Nov 30 12:57 root
drwxrwxr-x 2 1000 1000 0 Nov 30 12:56 sbin
dr-xr-xr-x 12 root root 0 Nov 30 13:19 sys
drwxrwxr-x 2 1000 1000 0 Nov 30 12:57 tmp
drwxrwxr-x 4 1000 1000 0 Nov 30 12:56 usr
/ # dmesg | grep init
[0.000000] random: get_random_bytes called from start_kernel+0x9c/0x480 with crng_init=0
[0.000000] Memory: 406428K/524288K available (12288K kernel code, 1619K rwdata, 4784K rodata, 2048K init, 393K bss, 52324K reserved, 65536K cma-reserved, 0K highmem)
[0.000000] .init : 0x(ptrval) - 0x(ptrval) (2048 kB)
[0.073770] devtmpfs: initialized
[0.099547] pinctrl core: initialized pinctrl subsystem
[0.266265] SCSI subsystem initialized
[0.425263] Trying to unpack rootfs image as initramfs...
[1.993036] Freeing initrd memory: 25092K
[2.141093] SuperH (H)SCI(F) driver initialized
[2.143788] msm_serial: driver initialized
[2.144711] STMicroelectronics ASC driver initialized
[2.146980] STM32 USART driver initialized
[2.498200] Run /init as init process
/ # busybox --help | head -15
BusyBox v1.31.1 (2021-11-30 14:53:00 EET) multi-call binary.
BusyBox is copyrighted by many authors between 1998-2015.
Licensed under GPLv2. See source distribution for detailed
copyright notices.
Usage: busybox [function [arguments]...]
or: busybox --list[-full]
or: busybox --show SCRIPT
or: busybox --install [-s] [DIR]
or: function [arguments]...
BusyBox is a multi-call binary that combines many common Unix
utilities into a single executable. Most people will create a
link to busybox for each function they wish to use and BusyBox
will act like whatever it was invoked as.
/ #
https://github.com/JadeRowan

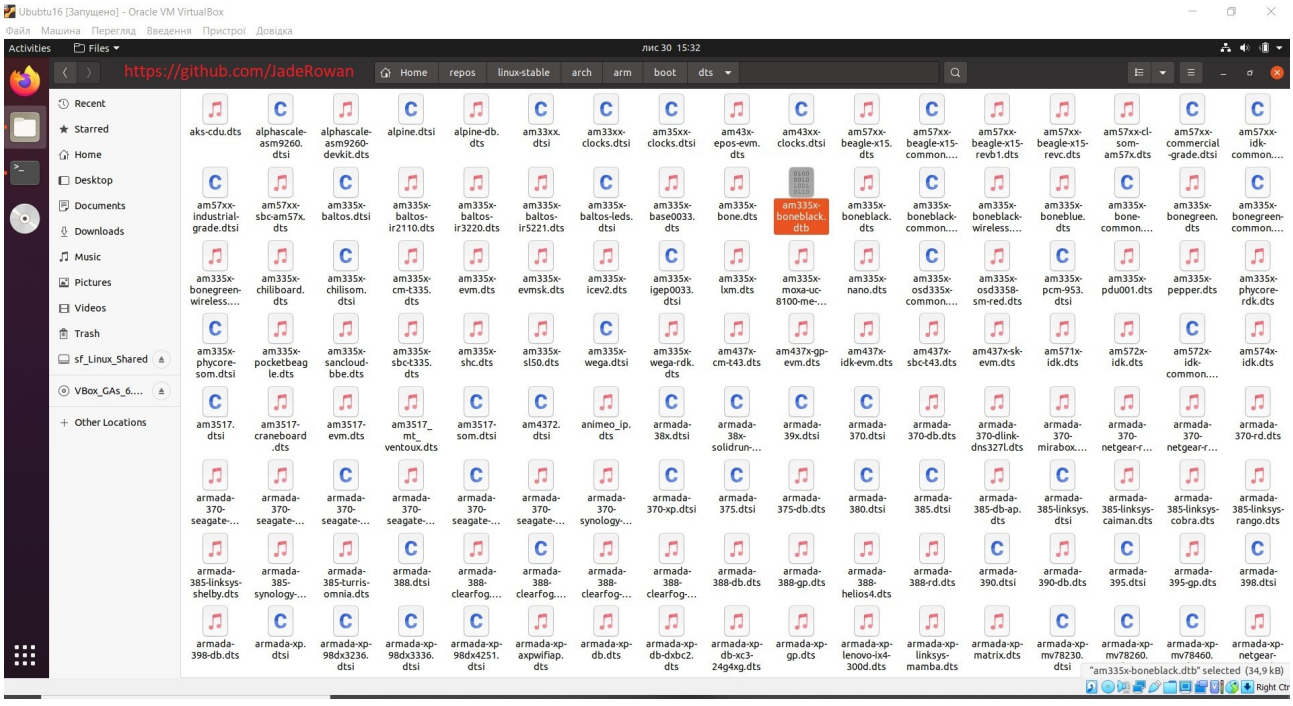

mik@mik-VirtualBox: ~/repos/busybox
[2.254958] usbserial: USB Serial support registered for pl2303
[2.255132] usbcore: registered new interface driver usb_serial_simple
[2.255393] usbserial: USB Serial support registered for carelink
[2.255639] usbserial: USB Serial support registered for zio
[2.256057] usbserial: USB Serial support registered for funsoft
[2.256317] usbserial: USB Serial support registered for flashloader
[2.256485] usbserial: USB Serial support registered for google
[2.256639] usbserial: USB Serial support registered for libtransistor
[2.256824] usbserial: USB Serial support registered for vivopay
[2.257071] usbserial: USB Serial support registered for moto_modem
[2.257523] usbserial: USB Serial support registered for motorola_tetra
[2.257793] usbserial: USB Serial support registered for novatel_gps
[2.258565] usbserial: USB Serial support registered for hp4x
[2.259617] usbserial: USB Serial support registered for suunto
[2.259840] usbserial: USB Serial support registered for siemens_mpi
[2.278754] rtc-pl031 9010000.pl031: rtc core: registered pl031 as rtc0
[2.280895] i2c /dev entries driver
[2.293894] sdhci: Secure Digital Host Controller Interface driver
[2.294428] sdhci: Copyright(c) Pierre Ossman
[2.299042] Synopsys Designware Multimedia Card Interface Driver
[2.301597] sdhci-pltfm: SDHCI platform and OF driver helper
[2.309178] ledtrig-cpu: registered to indicate activity on CPUs
[2.310310] usbcore: registered new interface driver usbhid
[2.310519] usbhid: USB HID core driver
[2.315089] NET: Registered protocol family 10
[2.322879] Segment Routing with IPv6
[2.323862] sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver
[2.331714] NET: Registered protocol family 17
[2.332769] can: controller area network core (rev 20170425 abi 9)
[2.333575] NET: Registered protocol family 29
[2.333818] can: raw protocol (rev 20170425)
[2.334129] can: broadcast manager protocol (rev 20170425 t)
[2.334441] can: netlink gateway (rev 20170425) max_hops=1
[2.336113] Key type dns_resolver registered
[2.336745] ThumbEE CPU extension supported.
[2.336992] Registering SWP/SWPB emulation handler
[2.343279] Loading compiled-in X.509 certificates
[2.353894] input: gpio-keys as /devices/platform/gpio-keys/input/input0
[2.366426] rtc-pl031 9010000.pl031: setting system clock to 2021-11-30 13:19:11 UTC (1638278351)
[2.379506] uart-pl011 9000000.pl011: no DMA platform data
[2.483434] Freeing unused kernel memory: 2048K
[2.498200] Run /init as init process
Please press Enter to activate this console.
https://github.com/JadeRowan

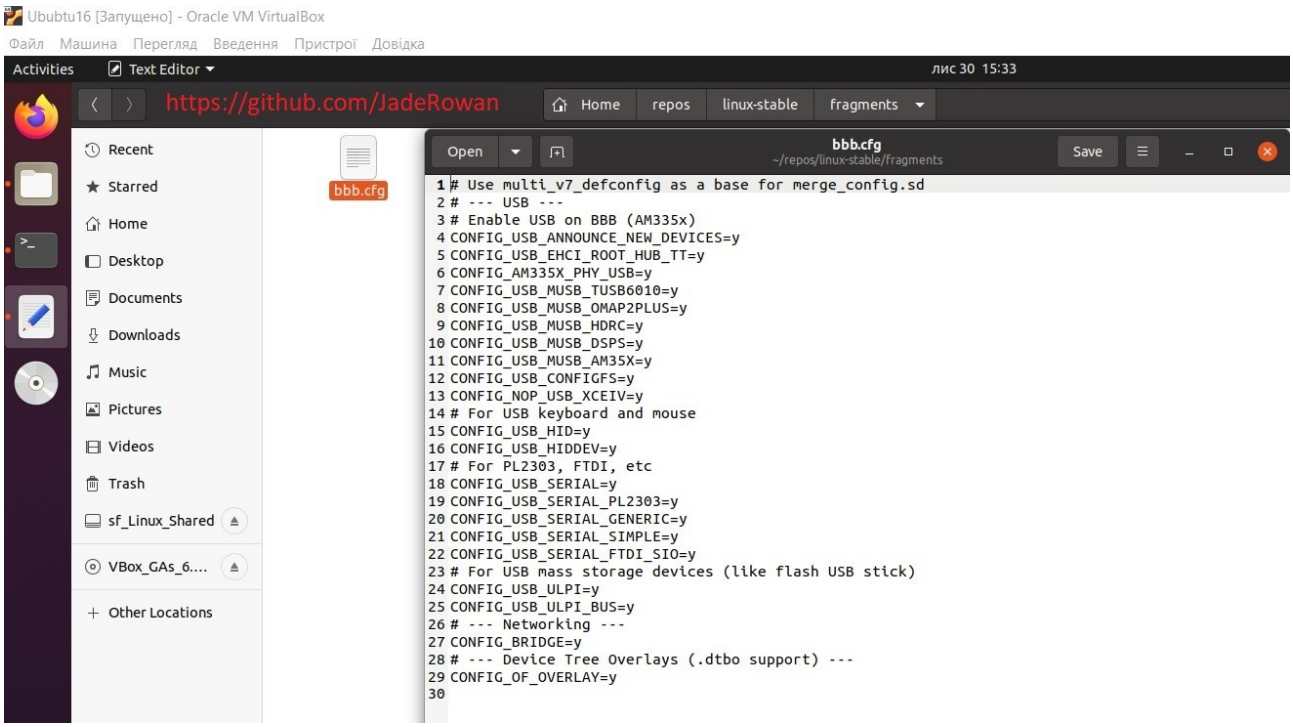

Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Files
лис 30 15:28
Home
repos
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
sf_Linux_Shared
VBox_GAs_6....
Other Locations
busybox
linux-stable
u-boot
https://github.com/Jade
Rowan

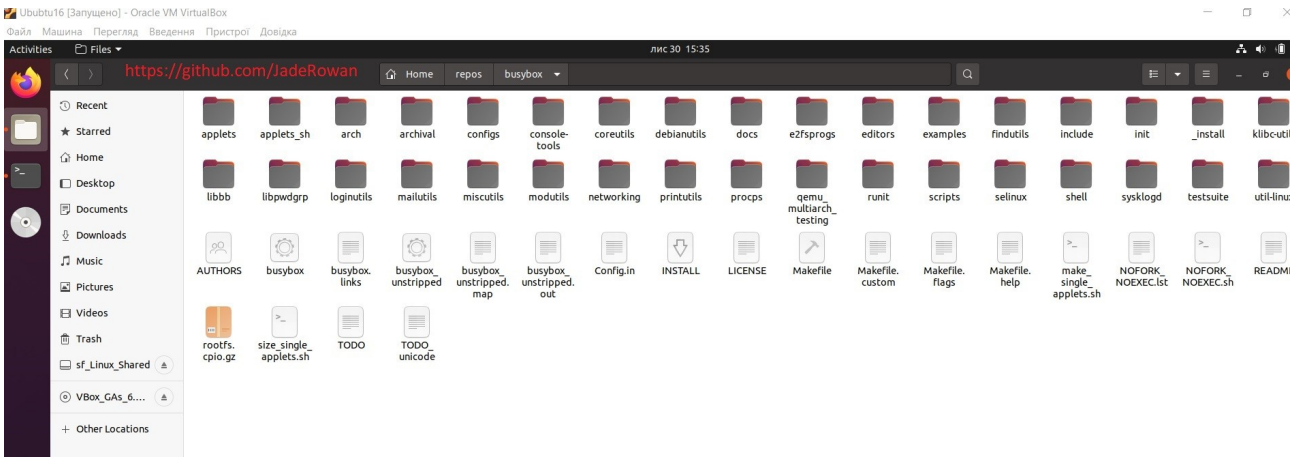

Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Files
лис 30 15:28
Home
repos
busybox
_install
etc
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
sf_Linux_Shared
VBox_GAs_6....
Other Locations
init.d
group
mdev.conf
passwd
resolv.conf
shadow
https://github.com/JadeRowan

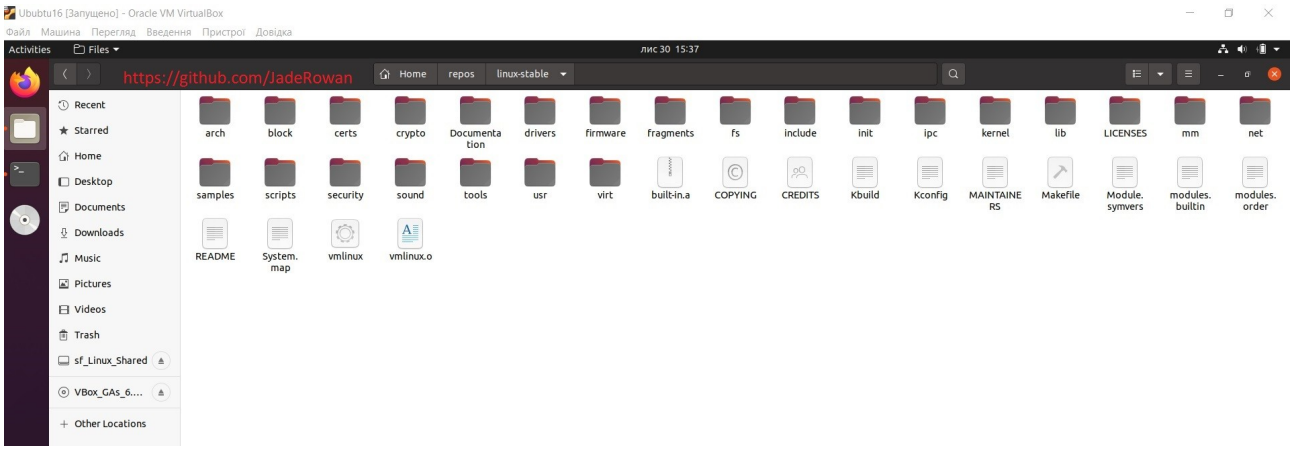

Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Text Editor
лис 30 15:29
Home
repos
busybox
_install
etc
init.d
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
sf_Linux_Shared
VBox_GAs_6....
Other Locations
rcS
Open
rcS
~/repos/busybox/_install/etc/init.d
Save
1 #!/bin/sh
2 mount -t sysfs none /sys
3 mount -t proc none /proc
4 mount -t debugfs none /sys/kernel/debug
5 echo /sbin/mdev > /proc/sys/kernel/hotplug
6 mdev -s
https://github.com/JadeRowan

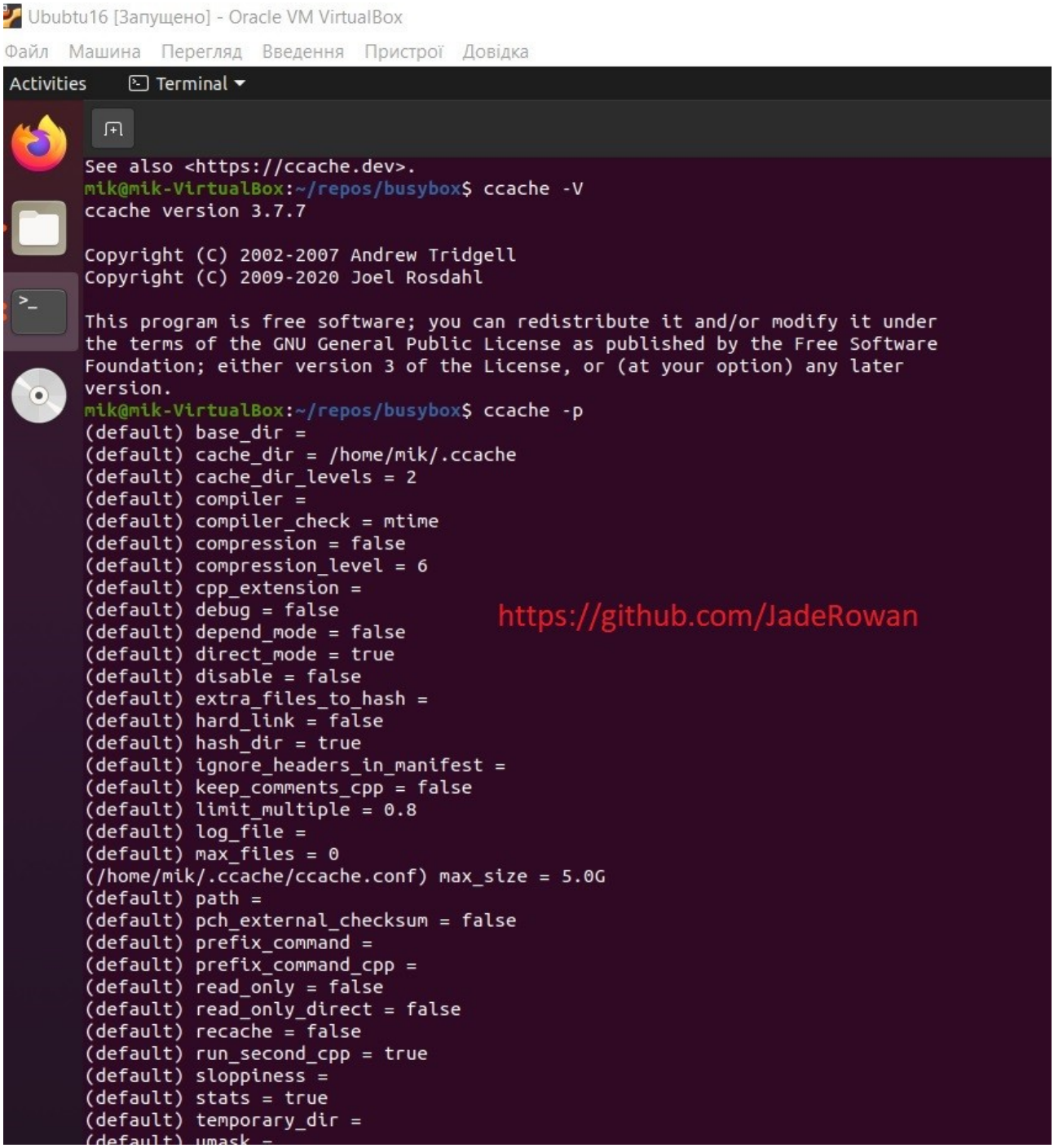

Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Files
лис 30 15:30
https://github.com/JadeRowan
Home
repos
busybox
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
sf_Linux_Shared
VBox_GAs_6....
Other Locations
applets
applets_sh
arch
archival
configs
console-tools
coreutils
debianutils
docs
e2fsprogs
editors
examples
findutils
include
init
_install
klibc-utils
libbb
libpwdgrp
loginutils
mailutils
miscutils
modutils
networking
printutils
procps
qemu_multiarch_testing
runit
scripts
selinux
shell
sysklogd
testsuite
util-linux
AUTHORS
busybox
busybox.links
busybox_unstripped
busybox_unstripped.map
busybox_unstripped.out
Config.in
INSTALL
LICENSE
Makefile
Makefile.custom
Makefile.flags
Makefile.help
make_single_applets.sh
NOFORK_NOEXEC.lst
NOFORK_NOEXEC.sh
README
rootfs.cpio.gz
size_single_applets.sh
TODO
TODO_unicode

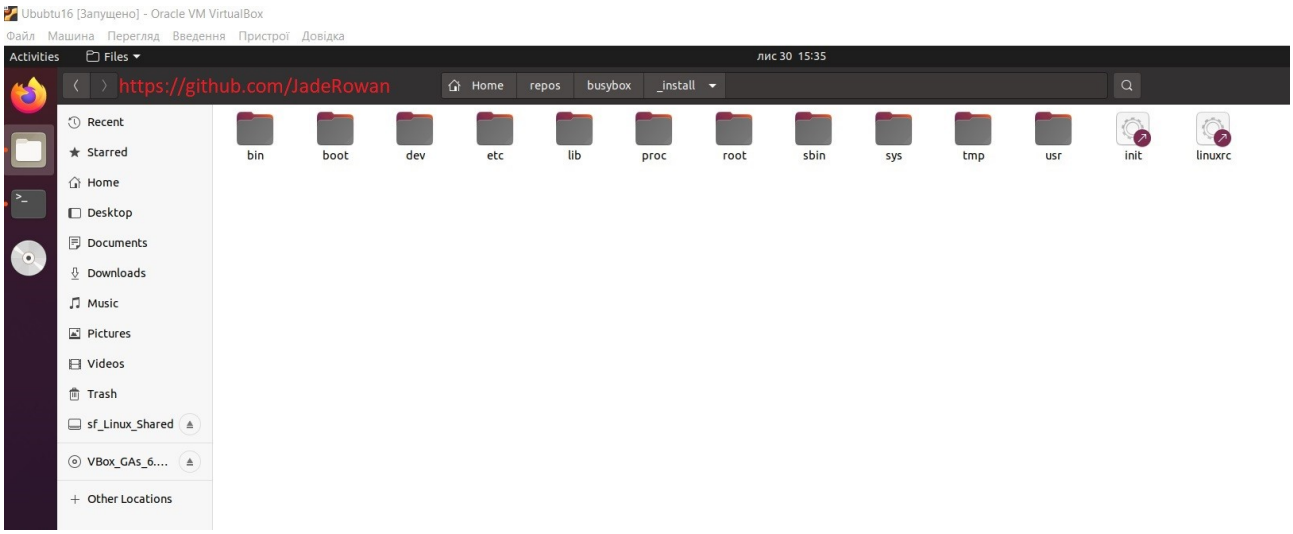

Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Files
лис 30 15:32
https://github.com/JadeRowan
Home
repos
linux-stable
arch
arm
boot
dts
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
sf_Linux_Shared
VBox_GAs_6....
Other Locations
aks-cdu.dts
alphascale-asm9260.dtsi
alphascale-asm9260-devkit.dts
alpine.dtsi
alpine-db.dts
am33xx.dtsi
am33xx-clocks.dtsi
am35xx-clocks.dtsi
am43x-epos-evm.dts
am43xx-clocks.dtsi
am57xx-beagle-x15.dts
am57xx-beagle-x15-common....
am57xx-beagle-x15-revb1.dts
am57xx-beagle-x15-revc.dts
am57xx-cl-som-am57x.dts
am57xx-commercial-grade.dtsi
am57xx-idk-common....
am57xx-industrial-grade.dtsi
am57xx-sbc-am57x.dts
am335x-baltos.dtsi
am335x-baltos-ir2110.dts
am335x-baltos-ir3220.dts
am335x-baltos-ir5221.dts
am335x-baltos-leds.dtsi
am335x-base0033.dts
am335x-bone.dts
am335x-boneblack.dtb
am335x-boneblack.dts
am335x-boneblack-common....
am335x-boneblack-wireless....
am335x-boneblue.dts
am335x-bone-common....
am335x-bonegreen.dts
am335x-bonegreen-common....
am335x-bonegreen-wireless....
am335x-chiliboard.dts
am335x-chilisom.dtsi
am335x-cm-t335.dts
am335x-evm.dts
am335x-evmsk.dts
am335x-icev2.dts
am335x-igep0033.dtsi
am335x-lxm.dts
am335x-moxa-uc-8100-me-...
am335x-nano.dts
am335x-osd335x-common....
am335x-osd3358-sm-red.dts
am335x-pcm-953.dtsi
am335x-pdu001.dts
am335x-pepper.dts
am335x-phycore-rdk.dts
am335x-phycore-som.dtsi
am335x-pocketbeagle.dts
am335x-sancloud-bbe.dts
am335x-sbc-t335.dts
am335x-shc.dts
am335x-sl50.dts
am335x-wega.dtsi
am335x-wega-rdk.dts
am437x-cm-t43.dts
am437x-gp-evm.dts
am437x-idk-evm.dts
am437x-sbc-t43.dts
am437x-sk-evm.dts
am571x-idk.dts
am572x-idk.dts
am572x-idk-common....
am574x-idk.dts
am3517.dtsi
am3517-craneboard.dts
am3517-evm.dts
am3517_mt_ventoux.dts
am3517-som.dtsi
am4372.dtsi
animeo_ip.dts
armada-38x.dtsi
armada-38x-solidrun-...
armada-39x.dtsi
armada-370.dtsi
armada-370-db.dts
armada-370-dlink-dns327l.dts
armada-370-mirabox....
armada-370-netgear-r...
armada-370-netgear-r...
armada-370-rd.dts
armada-370-seagate-...
armada-370-seagate-...
armada-370-seagate-...
armada-370-seagate-...
armada-370-seagate-...
armada-370-seagate-...
armada-370-synology-...
armada-370-xp.dtsi
armada-375.dtsi
armada-375-db.dts
armada-380.dtsi
armada-385.dtsi
armada-385-db-ap.dts
armada-385-linksys.dtsi
armada-385-linksys-caiman.dts
armada-385-linksys-cobra.dts
armada-385-linksys-rango.dts
armada-385-linksys-shelby.dts
armada-385-synology-...
armada-385-turris-omnia.dts
armada-388.dtsi
armada-388-clearfog....
armada-388-clearfog....
armada-388-clearfog-...
armada-388-clearfog-...
armada-388-db.dts
armada-388-gp.dts
armada-388-helios4.dts
armada-388-rd.dts
armada-390.dtsi
armada-390-db.dts
armada-395.dtsi
armada-395-gp.dts
armada-398.dtsi
armada-398-db.dts
armada-xp.dtsi
armada-xp-98dx3236.dtsi
armada-xp-98dx3336.dtsi
armada-xp-98dx4251.dtsi
armada-xp-axpwifiap.dts
armada-xp-db.dts
armada-xp-db-dxbc2.dts
armada-xp-db-xc3-24g4xg.dts
armada-xp-gp.dts
armada-xp-lenovo-ix4-300d.dts
armada-xp-linksys-mamba.dts
armada-xp-matrix.dts
armada-xp-mv78230.dtsi
armada-xp-mv78260.dts
armada-xp-mv78460.dts
armada-xp-netgear-
"am335x-boneblack.dtb" selected (34,9 kB)
Right Ctr


Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Text Editor
лис 30 15:33
https://github.com/JadeRowan
Home
repos
linux-stable
fragments
Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
sf_Linux_Shared
VBox_GAs_6....
Other Locations
bbb.cfg
Open
bbb.cfg
~/repos/linux-stable/fragments
Save
1 # Use multi_v7_defconfig as a base for merge_config.sd
2 # --- USB ---
3 # Enable USB on BBB (AM335x)
4 CONFIG_USB_ANNOUNCE_NEW_DEVICES=y
5 CONFIG_USB_EHCI_ROOT_HUB_TT=y
6 CONFIG_AM335X_PHY_USB=y
7 CONFIG_USB_MUSB_TUSB6010=y
8 CONFIG_USB_MUSB_OMAP2PLUS=y
9 CONFIG_USB_MUSB_HDRC=y
10 CONFIG_USB_MUSB_DSPS=y
11 CONFIG_USB_MUSB_AM35X=y
12 CONFIG_USB_CONFIGFS=y
13 CONFIG_NOP_USB_XCEIV=y
14 # For USB keyboard and mouse
15 CONFIG_USB_HID=y
16 CONFIG_USB_HIDDEV=y
17 # For PL2303, FTDI, etc
18 CONFIG_USB_SERIAL=y
19 CONFIG_USB_SERIAL_PL2303=y
20 CONFIG_USB_SERIAL_GENERIC=y
21 CONFIG_USB_SERIAL_SIMPLE=y
22 CONFIG_USB_SERIAL_FTDI_SIO=y
23 # For USB mass storage devices (like flash USB stick)
24 CONFIG_USB_ULPI=y
25 CONFIG_USB_ULPI_BUS=y
26 # --- Networking ---
27 CONFIG_BRIDGE=y
28 # --- Device Tree Overlays (.dtbo support) ---
29 CONFIG_OF_OVERLAY=y
30


Ububtu16 [Запущено] - Oracle VM VirtualBox
Activities
Files
лис 30 15:35
https://github.com/JadeRowan
Home
repos
busybox
applets
applets_sh
arch
archival
configs
console-tools
coreutils
debianutils
docs
e2fsprogs
editors
examples
findutils
include
init
_install
klibc-util
libbb
libpwdgrp
loginutils
mailutils
miscutils
modutils
networking
printutils
procps
qemu_multiarch_testing
runit
scripts
selinux
shell
sysklogd
testsuite
util-linux
AUTHORS
busybox
busybox.links
busybox_unstripped
busybox_unstripped.map
busybox_unstripped.out
Config.in
INSTALL
LICENSE
Makefile
Makefile.custom
Makefile.flags
Makefile.help
make_single_applets.sh
NOFORK_NOEXEC.lst
NOFORK_NOEXEC.sh
README
rootfs.cpio.gz
size_single_applets.sh
TODO
TODO_unicode


Ububtu16 [Запущено] - Oracle VM VirtualBox
Activities
Files
лис 30 15:37
https://github.com/JadeRowan
Home
repos
linux-stable
arch
block
certs
crypto
Documentation
drivers
firmware
fragments
fs
include
init
ipc
kernel
lib
LICENSES
mm
net
samples
scripts
security
sound
tools
usr
virt
built-in.a
COPYING
CREDITS
Kbuild
Kconfig
MAINTAINERS
Makefile
Module.symvers
modules.builtin
modules.order
README
System.map
vmlinux
vmlinux.o


Ububtu16 [Запущено] - Oracle VM VirtualBox
Файл Машина Перегляд Введення Пристрої Довідка
Activities
Terminal
See also <https://ccache.dev>.
mik@mik-VirtualBox:~/repos/busybox$ ccache -V
ccache version 3.7.7
Copyright (C) 2002-2007 Andrew Tridgell
Copyright (C) 2009-2020 Joel Rosdahl
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version.
mik@mik-VirtualBox:~/repos/busybox$ ccache -p
(default) base_dir =
(default) cache_dir = /home/mik/.ccache
(default) cache_dir_levels = 2
(default) compiler =
(default) compiler_check = mtime
(default) compression = false
(default) compression_level = 6
(default) cpp_extension =
(default) debug = false
(default) depend_mode = false
(default) direct_mode = true
(default) disable = false
(default) extra_files_to_hash =
(default) hard_link = false
(default) hash_dir = true
(default) ignore_headers_in_manifest =
(default) keep_comments_cpp = false
(default) limit_multiple = 0.8
(default) log_file =
(default) max_files = 0
(/home/mik/.ccache/ccache.conf) max_size = 5.0G
(default) path =
(default) pch_external_checksum = false
(default) prefix_command =
(default) prefix_command_cpp =
(default) read_only = false
(default) read_only_direct = false
(default) recache = false
(default) run_second_cpp = true
(default) sloppiness =
(default) stats = true
(default) temporary_dir =
(default) umask =
https://github.com/JadeRowan



Висновки:

Підготували середовище для плати BBB. Виконали завдання з файлу **BBB_-Platform_Bring_Up** з першог і до 3.1