

IRE

/boot/config-5.8.0-55-generic:9474:warning: symbol value 'm' invalid for ANDROID_BINDER_IPC

Your display is too small to run Menuconfig!

It must be at least 19 lines by 80 columns.

make[1]: *** [scripts/kconfig/Makefile:29: menuconfig] Error 1

make: *** [Makefile:528: menuconfig] Error 2

ubuntu@ubuntu:/usr/src/linux-4.17.4\$ sudo make menuconfig

Activities

Terminal ▾

Jun 5 00:35



ubuntu@ubuntu: /usr/src/linux-4.10.13



root@u...

ubuntu...

ubuntu...

ubuntu...

ubuntu...



/boot/config-5.8.0-55-generic:4274:warning: symbol value 'm' invalid for _LANTIQ

/boot/config-5.8.0-55-generic:4630:warning: symbol value 'm' invalid for B86S7X

/boot/config-5.8.0-55-generic:5763:warning: symbol value 'm' invalid for SI470X

/boot/config-5.8.0-55-generic:6433:warning: symbol value 'm' invalid for KLIGHT

/boot/config-5.8.0-55-generic:8467:warning: symbol value 'm' invalid for

/boot/config-5.8.0-55-generic:9474:warning: symbol value 'm' invalid for D_BINDER_IPC

Your display is too small to run Menuconfig!

It must be at least 19 lines by 80 columns.

make[1]: *** [scripts/kconfig/Makefile:28: menuconfig] Error 1

make: *** [Makefile:546: menuconfig] Error 2

ubuntu@ubuntu:/usr/src/linux-4.10.13\$ make menuconfig

*** Unable to find the ncurses libraries or the
*** required header files.

*** 'make menuconfig' requires the ncurses libraries.

*** Install ncurses (ncurses-devel) and try again.

make[1]: *** [scripts/kconfig/Makefile:201: scripts/kconfig/dochecklxdia
ror 1

make: *** [Makefile:546: menuconfig] Error 2

ubuntu@ubuntu:/usr/src/linux-4.10.13\$





ubuntu@ubuntu: /usr/src/linux-4.10.13



root@u... x

ubuntu... x

ubuntu... x

ubuntu... x

ubuntu... x

```
/boot/config-5.8.0-55-generic:1615:warning: symbol value 'm' invalid for
A_TAG_EDSA
/boot/config-5.8.0-55-generic:1619:warning: symbol value 'm' invalid for
A_TAG_QCA
/boot/config-5.8.0-55-generic:1622:warning: symbol value 'm' invalid for
A_TAG_TRAILER
/boot/config-5.8.0-55-generic:3989:warning: symbol value 'm' invalid for
CK_IFORCE_USB
/boot/config-5.8.0-55-generic:3990:warning: symbol value 'm' invalid for
CK_IFORCE_232
/boot/config-5.8.0-55-generic:4274:warning: symbol value 'm' invalid for
_LANTIQ
/boot/config-5.8.0-55-generic:4630:warning: symbol value 'm' invalid for
B86S7X
/boot/config-5.8.0-55-generic:5763:warning: symbol value 'm' invalid for
SI470X
/boot/config-5.8.0-55-generic:6433:warning: symbol value 'm' invalid for
KLIGHT
/boot/config-5.8.0-55-generic:8467:warning: symbol value 'm' invalid for
/boot/config-5.8.0-55-generic:9474:warning: symbol value 'm' invalid for
D_BINDER_IPC
Your display is too small to run Menuconfig!
It must be at least 19 lines by 80 columns.
make[1]: *** [scripts/kconfig/Makefile:28: menuconfig] Error 1
make: *** [Makefile:546: menuconfig] Error 2
ubuntu@ubuntu: /usr/src/linux-4.10.13$
```



ubuntu@ubuntu: /usr/src/linux-4.10.13/arch/x86/entry/sysc...



root@u... x

ubuntu... x

ubuntu... x

ubuntu... x

ubuntu... x

ubuntu@ubuntu:/usr/src/linux-4.10.13\$ cd arch/x86/entry/syscalls

ubuntu@ubuntu:/usr/src/linux-4.10.13/arch/x86/entry/syscalls\$ ls

Makefile syscall_32.tbl syscall_64.tbl syscallhdr.sh syscalltbl.sh

ubuntu@ubuntu:/usr/src/linux-4.10.13/arch/x86/entry/syscalls\$ sudo gedit
l_64.tbl

[sudo] password for ubuntu:

(gedit:2996): Tepl-WARNING **: 23:50:17.677: GVfs metadata is not supported. Falling back to TeplMetadataManager. Either GVfs is not correctly installed or metadata are not supported on this platform. In the latter case, you should configure Tepl with --disable-gvfs-metadata.

ubuntu@ubuntu:/usr/src/linux-4.10.13/arch/x86/entry/syscalls\$ #332 in our system call

ubuntu@ubuntu:/usr/src/linux-4.10.13/arch/x86/entry/syscalls\$

ActivitiesText EditorJun 4 23:49

Open[+]usr/src/linux-4.10.13/arch/x86/entry/syscallsSave[≡]

324	315	common	sched_getattr	sys_sched_getattr
325	316	common	renameat2	sys_renameat2
326	317	common	seccomp	sys_seccomp
327	318	common	getrandom	sys_getrandom
328	319	common	memfd_create	sys_memfd_create
329	320	common	kexec_file_load	sys_kexec_file_load
330	321	common	bpf	sys_bpf
331	322	64	execveat	sys_execveat/ptregs
332	323	common	userfaultfd	sys_userfaultfd
333	324	common	membarrier	sys_membarrier
334	325	common	mlock2	sys_mlock2
335	326	common	copy_file_range	sys_copy_file_range
336	327	64	preadv2	sys_preadv2
337	328	64	pwritev2	sys_pwritev2
338	329	common	pkey_mprotect	sys_pkey_mprotect
339	330	common	pkey_alloc	sys_pkey_alloc
340	331	common	pkey_free	sys_pkey_free
341	332	64	helloworld	sys_helloworld
342				
343				
344				# x32-specific system call numbers start at 512 to avoid cache impact
345				# for native 64-bit operation.
346				
347	512	x32	rt_sigaction	compat_sys_rt_sigaction
348	513	x32	rt_sigreturn	sys32_x32_rt_sigreturn
349	514	x32	ioctl	compat_sys_ioctl
350	515	x32	readv	compat_sys_readv
351	516	x32	writev	compat_sys_writev

Plain TextTab Width: 8Ln 341, Col 41



ubuntu@ubuntu: /usr/src/linux-4.10.13/include/linux



root@ubunt...

ubuntu@ubu...

ubuntu@ubu...

ubuntu@ubu...

hwmon-sysfs.h

hwmon-vid.h

hw_random.h

hwspinlock.h

hyperv.h

hypervisor.h

i2c

i2c-algo-bit.h

i2c-algo-pca.h

i2c-algo-pcf.h

i2c-dev.h

i2c-gpio.h

i2c.h

i2c-mux-gpio.h

i2c-mux.h

i2c-mux-pinctrl.h

i2c-ocores.h

i2c-omap.h

i2c-pca-platform.h

pe.h

percpu_counter.h

percpu-defs.h

percpu.h

percpu_ida.h

percpu-refcount.h

percpu-rwsem.h

perf

perf_event.h

perf_regs.h

personality.h

pfn.h

pfn_t.h

phonet.h

phy

phy_fixed.h

phy.h

phy_led_triggers.h

pid.h

win_minmax.h

wireless.h

wkup_m3_ipc.h

wl12xx.h

wm97xx.h

workqueue.h

writeback.h

ww_mutex.h

xattr.h

xz.h

yam.h

z2_battery.h

zbud.h

zconf.h

zlib.h

zorro.h

zpool.h

zsmalloc.h

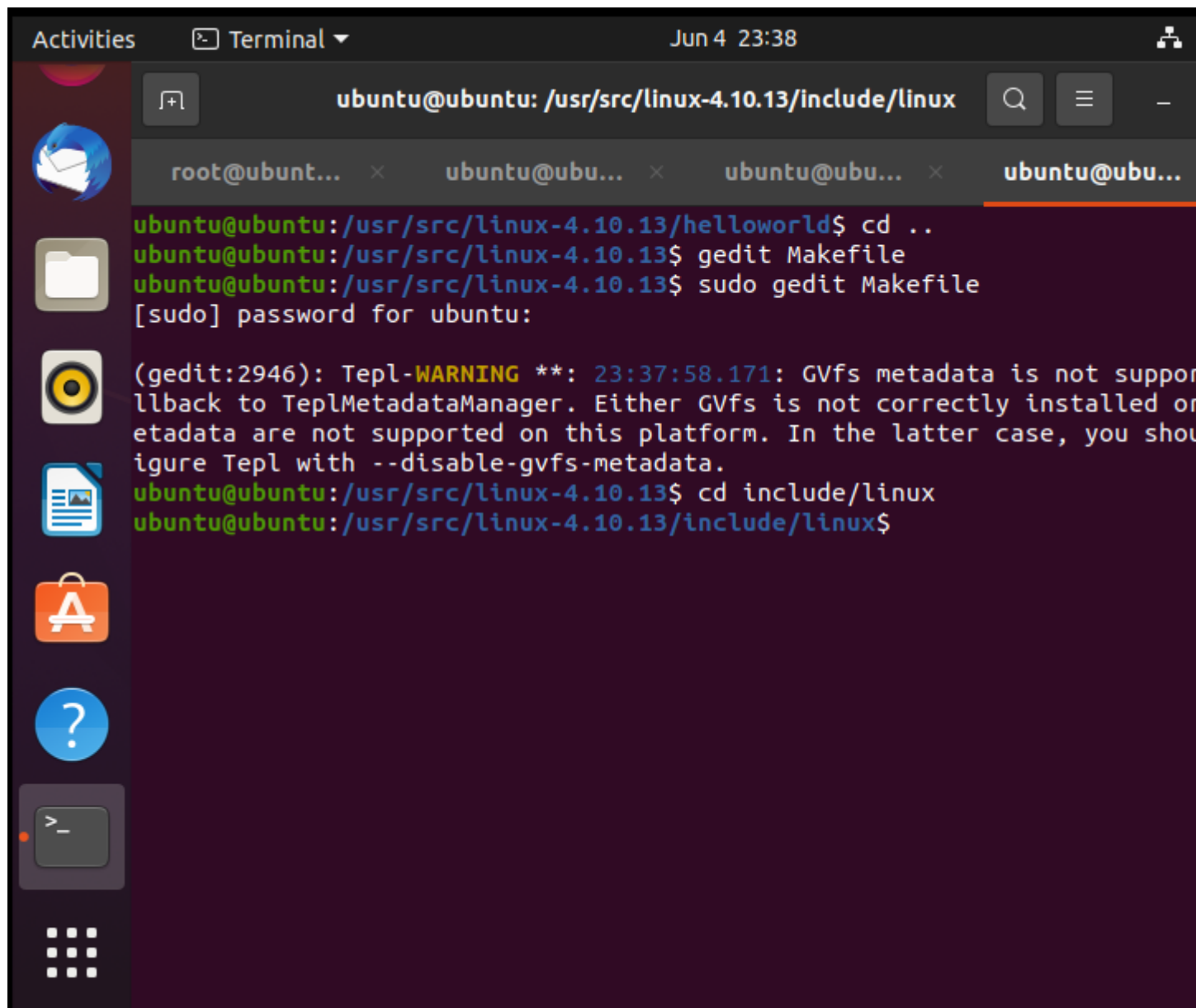
zutil.h

ubuntu@ubuntu: /usr/src/linux-4.10.13/include/linux\$ sudo gedit syscalls

(gedit:2965): Tepl-WARNING **: 23:42:43.330: GVfs metadata is not supported on this platform. Either GVfs is not correctly installed or metadata are not supported on this platform. In the latter case, you should figure Tepl with --disable-gvfs-metadata.

ubuntu@ubuntu: /usr/src/linux-4.10.13/include/linux\$

```
882             unsigned long idx1, unsigned long idx2);
883 asmlinkage long sys_finit_module(int fd, const char __user *uargs,
      flags);
884 asmlinkage long sys_seccomp(unsigned int op, unsigned int flags,
885             const char __user *uargs);
886 asmlinkage long sys_getrandom(char __user *buf, size_t count,
887             unsigned int flags);
888 asmlinkage long sys_bpf(int cmd, union bpf_attr *attr, unsigned int
889
890 asmlinkage long sys_execveat(int dfd, const char __user *filename,
891             const char __user *const __user *argv,
892             const char __user *const __user *envp, int f
893
894 asmlinkage long sys_membarrier(int cmd, int flags);
895 asmlinkage long sys_copy_file_range(int fd_in, loff_t __user *off_in
896             int fd_out, loff_t __user *off_o
897             size_t len, unsigned int flags);
898
899 asmlinkage long sys_mlock2(unsigned long start, size_t len, int flag
900
901 asmlinkage long sys_pkey_mprotect(unsigned long start, size_t len,
902             unsigned long prot, int pkey);
903 asmlinkage long sys_pkey_alloc(unsigned long flags, unsigned long
      init_val);
904 asmlinkage long sys_pkey_free(int pkey);
905
906 asmlinkage long sys_helloworld(void);
907 #endif
```



Open



*Makefile

/usr/src/linux-4.10.13

Save



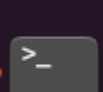
```
906 else
907 mod_sign_cmd = true
908 endif
909 export mod_sign_cmd
910
911
912 ifeq ($(KBUILD_EXTMOD),)
913 core-y += kernel/ certs/ mm/ fs/ ipc/ security/ crypto/ bl
          helloworld/
914
915 vmlinux-dirs := $(patsubst %/,%, $(filter %/, $(init-y) $(init-m)
916                $(core-y) $(core-m) $(drivers-y) $(drivers-m)
917                $(net-y) $(net-m) $(libs-y) $(libs-m) $(virt-y)
918
919 vmlinux-alldirs := $(sort $(vmlinux-dirs) $(patsubst %/,%, $
          %/, \
920                $(init-) $(core-) $(drivers-) $(net-) $(libs-)
          (virt-)))
921
922 init-y := $(patsubst %/, %/built-in.o, $(init-y))
923 core-y := $(patsubst %/, %/built-in.o, $(core-y))
924 drivers-y := $(patsubst %/, %/built-in.o, $(drivers-y))
925 net-y := $(patsubst %/, %/built-in.o, $(net-y))
926 libs-y1 := $(patsubst %/, %/lib.a, $(libs-y))
927 libs-y2 := $(patsubst %/, %/built-in.o, $(libs-y))
928 libs-y := $(libs-y1) $(libs-y2)
929 virt-y := $(patsubst %/, %/built-in.o, $(virt-y))
930
```


Open

***Makefile**

/usr/src/linux-4.10.13/helloworld

Save



```
1 obj-y:=helloworld.o
```

Makefile ▾

Tab Width: 8 ▾

Ln 1, Col 20



ubuntu@ubuntu: /usr/src/linux-4.10.13/helloworld



root@ubuntu: /hom... x

ubuntu@ubuntu: ~ x

ubuntu@ubuntu: /us... x

CREDITS fs Kconfig mm security
ubuntu@ubuntu: /usr/src/linux-4.10.13\$ mkdir helloworld

Command 'mkdir' not found, did you mean:

command 'mkdir' from deb coreutils (8.30-3ubuntu2)
command 'mmkdir' from deb mblaze (0.6-1)

Try: sudo apt install <deb name>

ubuntu@ubuntu: /usr/src/linux-4.10.13\$ sudo mkdir helloworld
[sudo] password for ubuntu:

sudo: mkdir: command not found

ubuntu@ubuntu: /usr/src/linux-4.10.13\$ mkdir helloworld
mkdir: cannot create directory 'helloworld': Permission denied

ubuntu@ubuntu: /usr/src/linux-4.10.13\$ sudo mkdir helloworld

ubuntu@ubuntu: /usr/src/linux-4.10.13\$ cd helloworld

ubuntu@ubuntu: /usr/src/linux-4.10.13/helloworld\$ gedit helloworld

ubuntu@ubuntu: /usr/src/linux-4.10.13/helloworld\$ gedit helloworld.c

ubuntu@ubuntu: /usr/src/linux-4.10.13/helloworld\$ sudo gedit helloworld.c

(gedit:2836): Tepl-WARNING **: 23:30:35.388: GVfs metadata is not supported on this platform. Falling back to TeplMetadataManager. Either GVfs is not correctly installed or GVfs metadata are not supported on this platform. In the latter case, you should configure Tepl with --disable-gvfs-metadata.

ubuntu@ubuntu: /usr/src/linux-4.10.13/helloworld\$

Open

***helloworld.c**

/usr/src/linux-4.10.13/helloworld

Save



```
1 #include <linux/kernel.h>
2
3 asmlinkage long sys_helloworld(void)
4 {
5 {
6     printk("hello world\n");
7     return 0;
8 }
9
10 }
```



ubuntu@ubuntu: /usr/src/linux-4.10.13



root@ubuntu: /hom... x

ubuntu@ubuntu: ~ x

ubuntu@ubuntu: /us... x



ubuntu@ubuntu:~\$ ls

Desktop	Downloads	linux-4.17.4.tar.xz	Pictures	Template
Documents	linux-4.10.13.tar.gz	Music	Public	Videos



ubuntu@ubuntu:~\$ cd /usr/src/

ubuntu@ubuntu:/usr/src\$ ls

linux-4.10.13	linux-headers-5.8.0-43-generic	linux-hwe-5.8-headers-5.8
linux-4.17.4	linux-headers-5.8.0-55-generic	linux-hwe-5.8-headers-5.8



ubuntu@ubuntu:/usr/src\$ cd linux-4.10.13

ubuntu@ubuntu:/usr/src/linux-4.10.13\$ ls

arch	crypto	include	kernel	net	sound
block	Documentation	init	lib	README	tools
certs	drivers	ipc	MAINTAINERS	samples	usr
COPYING	firmware	Kbuild	Makefile	scripts	virt
CREDITS	fs	Kconfig	mm	security	



ubuntu@ubuntu:/usr/src/linux-4.10.13\$ mkdir helloworld

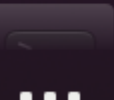


Command 'mkdir' not found, did you mean:

command 'mkdir' from deb coreutils (8.30-3ubuntu2)

command 'mmkdir' from deb mblaze (0.6-1)

Try: sudo apt install <deb name>



ubuntu@ubuntu:/usr/src/linux-4.10.13\$ sudo mkdir helloworld

[sudo] password for ubuntu:

sudo: mkdir: command not found

ubuntu@ubuntu:/usr/src/linux-4.10.13\$ mkdir helloworld



root@ubuntu: /home/ubuntu



```
ubuntu@ubuntu:~$ wget https://www.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz
--2021-06-04 23:07:12-- https://www.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz
Resolving www.kernel.org (www.kernel.org)... 136.144.49.103, 2604:1380:4000::1
Connecting to www.kernel.org (www.kernel.org)|136.144.49.103|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz [following]
--2021-06-04 23:07:13-- https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz
Resolving mirrors.edge.kernel.org (mirrors.edge.kernel.org)... 147.75.100.43, 2604:1380:2001:3900::1
Connecting to mirrors.edge.kernel.org (mirrors.edge.kernel.org)|147.75.100.43... connected.
HTTP request sent, awaiting response... 200 OK
Length: 143967305 (137M) [application/x-gzip]
Saving to: 'linux-4.10.13.tar.gz'

linux-4.10.13.tar.g 100%[=====>] 137.30M  3.16MB/s   in 51s

2021-06-04 23:08:04 (2.71 MB/s) - 'linux-4.10.13.tar.gz' saved [143967305/143967305]
```

```
ubuntu@ubuntu:~$ ls
Desktop      Downloads      linux-4.17.4.tar.xz  Pictures  Templates
Documents    linux-4.10.13.tar.gz  Music               Public    Videos
```



ubuntu@ubuntu: ~



2021-06-04 22:44:17 (1.83 MB/s) - 'linux-4.17.4.tar.xz' saved [102176828828]

ubuntu@ubuntu:~\$ wget https://www.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz

--2021-06-04 23:07:12-- https://www.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz

Resolving www.kernel.org (www.kernel.org)... 136.144.49.103, 2604:1380:4000::1

Connecting to www.kernel.org (www.kernel.org)|136.144.49.103|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently

Location: https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz [following]

--2021-06-04 23:07:13-- https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-4.10.13.tar.gz

Resolving mirrors.edge.kernel.org (mirrors.edge.kernel.org)... 147.75.100.04:1380:2001:3900::1

Connecting to mirrors.edge.kernel.org (mirrors.edge.kernel.org)|147.75.100.04:1380:2001:3900::1|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 143967305 (137M) [application/x-gzip]

Saving to: 'linux-4.10.13.tar.gz'

linux-4.10.13.tar.g 100%[=====>] 137.30M 3.16MB/s in 51s

2021-06-04 23:08:04 (2.71 MB/s) - 'linux-4.10.13.tar.gz' saved [1439673057305]

ubuntu@ubuntu:~\$



ubuntu@ubuntu: ~



version: 1.00

capabilities: usb-1.10

configuration: driver=hub slots=7 speed=12Mbit/s

*-network

description: Ethernet interface

product: 82545EM Gigabit Ethernet Controller (Copper)

vendor: Intel Corporation

physical id: 1

bus info: pci@0000:02:01.0

logical name: ens33

version: 01

serial: 00:0c:29:0f:1a:a2

size: 1Gbit/s

capacity: 1Gbit/s

width: 64 bits

clock: 66MHz

capabilities: pm pcix bus_master cap_list rom ethernet p

logical tp 10bt 10bt-fd 100bt 100bt-fd 1000bt-fd autonegotiation

configuration: autonegotiation=on broadcast=yes driver=e

iverversion=7.3.21-k8-NAPI duplex=full ip=192.168.52.128 latency=0 link=

gnt=255 multicast=yes port=twisted pair speed=1Gbit/s

resources: irq:19 memory:fd5c0000-fd5dffff memory:fdff00

ffff ioport:2000(size=64) memory:fd500000-fd50ffff

*-multimedia

description: Multimedia audio controller

product: ES1371/ES1373 / Creative Labs CT2518

vendor: Ensoniq

physical id: 2

bus info: pci@0000:02:02.0



ubuntu@ubuntu: ~



```
configuration: driver=vmwgfx latency=64
resources: irq:16 ioport:1070(size=16) memory:e8000000-ef
memory:fe000000-fe7fffff memory:c0000-dffff
*-scsi
description: SCSI storage controller
product: 53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI
vendor: Broadcom / LSI
physical id: 10
bus info: pci@0000:00:10.0
version: 01
width: 64 bits
clock: 33MHz
capabilities: scsi bus_master cap_list rom
configuration: driver=mptspi latency=64 maxlatency=255 min
resources: irq:17 ioport:1400(size=256) memory:feba0000-feb
memory:febc0000-febdffff memory:c0008000-c000bfff
*-pci:1
description: PCI bridge
product: PCI bridge
vendor: VMware
physical id: 11
bus info: pci@0000:00:11.0
version: 02
width: 32 bits
clock: 33MHz
capabilities: pci subtractive_decode bus_master cap_list
resources: ioport:2000(size=8192) memory:fd500000-fdffffff
e7b00000(size=5242880)
*-usb:0
```



ubuntu@ubuntu: ~



ubuntu@ubuntu:~\$ uname

Linux

ubuntu@ubuntu:~\$ uname -n

ubuntu

ubuntu@ubuntu:~\$ uname -v

#56~20.04.1-Ubuntu SMP Mon Apr 12 21:46:35 UTC 2021

ubuntu@ubuntu:~\$ uname -r

5.8.0-50-generic

ubuntu@ubuntu:~\$ uname -m

x86_64

ubuntu@ubuntu:~\$ uname -a

Linux ubuntu 5.8.0-50-generic #56~20.04.1-Ubuntu SMP Mon Apr 12 21:46:35
21 x86_64 x86_64 x86_64 GNU/Linux

ubuntu@ubuntu:~\$ sudo lshw

[sudo] password for ubuntu:

sudo: lshw: command not found

ubuntu@ubuntu:~\$ sudo lshw

ubuntu

description: Computer

product: VMware Virtual Platform

vendor: VMware, Inc.

version: None

serial: VMware-56 4d 10 af b6 6c 33 80-24 1a dc 09 16 0f 1a a2

width: 64 bits

capabilities: smbios-2.7 dmi-2.7 vsyscall32

configuration: administrator_password=enabled boot=normal frontpanel,
rd=unknown keyboard_password=unknown power-on_password=disabled uuid=564
66C-3380-241A-DC09160F1AA2

*-core