```
rps@rps-virtual-machine:-/pips Cd ..
rps@rps-virtual-machine:-5 sudo -s
[sudo] password for rps:
sorry, try again.
[sudo] password for rps:
root@rps-virtual-machine:/home/rps# uname -r
6.5.0-35.generic
root@rps-virtual-machine:/home/rps# wget https://www.kernel.org/pub/linux/kernel/v4.x/linux-5.14.3.tar.xz
-2024-08-02 11:56:16-- https://www.kernel.org/pub/linux/kernel/v4.x/linux-5.14.3.tar.xz
Resolving www.kernel.org (www.kernel.org)... 145.40.73.55, 2604:1380:40e1:4800:1
Connecting to www.kernel.org (www.kernel.org)]145.40.73.55; 2604:1380:40e1:4800:1
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-5.14.3.tar.xz
[following]
-2024-08-02 11:56:16-- https://mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-5.14.3.tar.xz
Resolving mirrors.edge.kernel.org (mirrors.edge.kernel.org/pub/linux/kernel/v4.x/linux-5.14.3.tar.xz
Resolving mirrors.edge.kernel.org (mirrors.edge.kernel.org)... 147.75.80.249, 2004:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380:400:1380
```

```
root@rps-virtual-machine:/home/rps# cd balancedp# gedit balancedp.c

(gedit:924198): dconf-MARNING **: 12:02:42.730: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:924198): dconf-MARNING **: 12:02:42.730: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:924198): dconf-MARNING **: 12:02:43.134: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:924198): dconf-MARNING **: 12:02:43.135: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:924198): dconf-MARNING **: 12:02:43.135: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

** (gedit:924198): dconf-MARNING **: 12:07:51.204: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported

** (gedit:924198): MARNING **: 12:07:51.204: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): MARNING **: 12:07:59.735: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): MARNING **: 12:07:59.735: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): MARNING **: 12:07:59.735: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): MARNING **: 12:07:59.735: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): dconf-MARNING **: 12:08:01.920: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): dconf-MARNING **: 12:08:01.920: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:924198): dconf-MARNING **: 12:08:01.920: Set document metadata failed: Setting attribute
```

```
oot@rps-virtual-machine:/home/rps/balancedp# gedit Makefile
(gedit:927168): dconf-MARNING **: 12:11:04.861: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)
(gedit:927168): dconf-MARNING **: 12:11:04.871: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)
(gedit:927168): dconf-MARNING **: 12:11:05.222: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)
(gedit:927168): dconf-WARNING **: 12:11:05.222: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
(gedit:927168): dconf-WARNING **: 12:11:05.223: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
** (gedit:927168): MARNING **: 12:14:23.483: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:927168): WARNING **: 12:14:23.484: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:927168): WARNING **: 12:14:27.539: Set document metadata falled: Setting attribute metadata::gedit-spell-language not supported
** (gedit:927168): WARNING **: 12:14:27.540: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:927168): WARNING **: 12:15:00.668: Set document metadata failed: Setting attribute metadata::gedit-position not supported
(gedit:927168): dconf-MARNING **: 12:15:00.715: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)
root@rps-virtual-machine:/home/rps/balancedp#
 root@rps-virtual-machine:/home/rps/balancedp# cd ..
root@rps-virtual-machine:/home/rps# gedit Makefile
(gedit:927552): dconf-WARNING **: 12:16:42.274: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)
(gedit:927552): dconf-MARNING **: 12:16:42.287: falled to commit changes to dconf: Falled to execute child process "dbus-launch" (No such fil
  or directory)
```

```
root@prs-virtual-machine:/home/rps/Balancedp# cd ../
root@prs-virtual-machine:/home/rps/galancedp# cd ../
root@prs-virtual-machine:/home/rps/gedit Makefile

(gedit:927552): dconf-MARNING **: 12:16:42.274: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

(gedit:927552): dconf-MARNING **: 12:16:42.287: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

(gedit:927552): dconf-MARNING **: 12:16:42.735: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

(gedit:927552): dconf-MARNING **: 12:16:42.736: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

(gedit:927552): dconf-MARNING **: 12:16:42.736: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

** (gedit:927552): dconf-MARNING **: 12:19:46.542: Set document metadata failed: Setting attribute metadata::gedit-position not supported

(gedit:927552): dconf-MARNING **: 12:19:46.578: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

** (gedit:927552): dconf-MARNING **: 12:19:46.578: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)

** (gedit:927552): dconf-MARNING **: 12:19:46.578: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
e or directory)
```

```
root@rps-virtual-machine:/home/rps# gedit Makefile

(gedit:929584): dconf-WARNING **: 12:35:22.316: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:929584): dconf-WARNING **: 12:35:22.332: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:929584): dconf-WARNING **: 12:35:22.811: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:929584): dconf-WARNING **: 12:35:22.812: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

(gedit:929584): dconf-WARNING **: 12:35:22.812: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

** (gedit:929584): dconf-WARNING **: 12:35:22.812: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)

** (gedit:929584): WARNING **: 12:41:25.518: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:929584): WARNING **: 12:41:25.518: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported

** (gedit:929584): WARNING **: 12:41:32.985: Set document metadata failed: Setting attribute metadata::gedit-position not supported

(gedit:929584): WARNING **: 12:41:32.985: Set document metadata failed: Setting attribute metadata::gedit-position not supported

(gedit:929584): WARNING **: 12:41:32.985: Set document metadata failed: Setting attribute metadata::gedit-position not supported

(gedit:929584): WarNING **: 12:41:32.985: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such file or directory)
```

```
core-y += kernel/ mm/ fs/ ipc/ security/ crypto/ block/ balancedp/
vash: syntax error near unexpected token 'core-y'
oot@rps-virtual-machine:/home/rps# cd arch/x86/entry/syscalls/
aash: cd: arch/x86/entry/syscalls/: No such file or directory
oot@rps-virtual-machine:/home/rps# gedit syscall_64.tbl
 gedit:931433): dconf-WARNING **: 13:00:00,991: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
 gedit:931433): dconf-WARNING **: 13:00:09.012: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
 gedit:931433): dconf-MARNING **: 13:00:09.499: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
 gedit:931433): dconf-WARNING **: 13:00:09.500: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
 gedit:931433): dconf-WARNING **: 13:00:09.501: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
 * (gedit:931433): WARNING **: 13:02:46.903: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
   (gedit:931433): WARNING **: 13:02:46.903: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
   (gedit:931433): WARNING **: 13:03:03.545: Set document metadata failed: Setting attribute metadata::gedit-position not supported
gedit:931433): dconf-WARNING **: 13:03:03.596: failed to commit changes to dconf: Failed to execute child process "dbus-launch" (No such fil
or directory)
oot@rps-virtual-machine:/home/rps#
root@rps-virtual-machine:/home/rps# /usr/src/linux-5.14.3# cd /usr/src/linux-5.14.3/arch/x86/kernel/bash: /usr/src/linux-5.14.3#: No such file or directory root@rps-virtual-machine:/home/rps# /usr/src/linux-5.14.3# 333 64 balance _x64_sys_balancedp bash: /usr/src/linux-5.14.3#: No such file or directory root@rps-virtual-machine:/home/rps# /usr/src/linux-5.14.3# 548 64 balance __x6_sys_balancedp bash: /usr/src/linux-5.14.3#: No such file or directory root@rps-virtual-machine:/home/rps# ^C root@rps-virtual-machine:/home/rps# ^C root@rps-virtual-machine:/home/rps# ^C
 root@rps-virtual-machine:/home/rps# ^C
 root@rps-virtual-machine:/home/rps#
 root@rps-virtual-machine:/home/rps# cd ..
root@rps-virtual-machine:/home# cd ..
 root@rps-virtual-machine:/# cd ..
 root@rps-virtual-machine:/# cd
root@rps-virtual-machine:/# cd ...
root@rps-virtual-machine:/# cd /usr/src/linux-5.14.3/arch/x86/kernel/
bash: cd: /usr/src/linux-5.14.3/arch/x86/kernel/: No such file or directory
root@rps-virtual-machine:/# ls
bin cdrom etc lib lib64 lost+found mnt proc run snap swapfile tmp var
boot dev home lib32 libx32 media opt root sbin srv sys usr
 root@rps-virtual-machine:/#
 root@rps-virtual-machine:/# ls
                                                                                                                            snap swapfile tmp
                                                    lib64
                                      lib32 libx32 media
boot dev nome tib32 tib32 menta opt foot str str sys usr
root@rps-virtual-machine:/# cd ../../include/linux/
bash: cd: ../.../include/linux/: No such file or directory
root@rps-virtual-machine:/# vim syscalls.h
root@rps-virtual-machine:/# sudo apt-get install gcc libncurses5-dev bison flex libssl-dev libelf-dev
 Reading package lists... Done
Building dependency tree... Done
Building dependency tree... Done
Reading state information... Done
gcc is already the newest version (4:11.2.0-1ubuntu1).
The following packages were automatically installed and are no longer required:
libflashrom1 libftdi1-2 libllvm13 libwpe-1.0-1 libwpebackend-fdo-1.0-1
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
libfl-dev libfl2 libncurses-dev libsigsegv2 m4 zlib1g-dev
 Suggested packages:
 bison-doc flex-doc ncurses-doc libssl-doc m4-doc
The following NEW packages will be installed:
bison flex libelf-dev libfl-dev libfl2 libncurses-dev libncurses5-dev libsigsegv2 libssl-dev m4 zlib1g-dev
Need to get 4,270 kB of archives.

After this operation, 19.9 MB of additional disk space will be used.

Do you want to continue? [Y/n]
```

```
Do you want to continue? [Y/n] y

Get:: http://in.archive.ubuntu.com/ubuntu jammy/main amd64 libsigsegv2 amd64 2.13-1ubuntu3 [14.6 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy/main amd64 flex amd64 1.4.18-Subuntu2 [199 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy/main amd64 flex amd64 2.6.4-Bbuild2 [307 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy/main amd64 flex amd64 2.6.4-Bbuild2 [307 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 2.18.12-gdev amd64 1.2.11.dfsg-2ubuntu9.2 [164 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 2.18.12-gdev amd64 1.2.11.dfsg-2ubuntu9.2 [164 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 lible.dev amd64 0.6.4-Bbuild2 [6.26 B]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libncurses-dev amd64 6.3-2ubuntu8.1 [381 kB]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libncurses-dev amd64 6.3-2ubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libncurses-dev amd64 6.3-2ubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libncurses-dev amd64 6.3-2ubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libncurses-dev amd64 6.3-2ubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libncurses-dev amd64 3.0-2-Oubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu2.om/ubuntu3 jammy-updates/main amd64 libncurses-dev amd64 3.0-2-Oubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu2.om/ubuntu3 jammy-updates/main amd64 libncurses-dev amd64 3.0-2-Oubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu2.om/ubuntu3 jammy-updates/main amd64 libncurses-dev amd64 3.0-2-Oubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu2.om/ubuntu3 jammy-updates/main amd64 libncurses-dev amd64 3.0-2-Oubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu3 jammy-updates/main amd64 libncurses-dev amd64 3.0-2-Oubuntu8.1 [799 B]

Get:: http://in.archive.ubuntu3 jammy-upda
```

```
Preparing to unpack .../09-tibet-dev_183a1.2.11.dfsg-2ubntu9.2_amd64.deb ...

Unpacking zlubig-dev_amd64 (i.1.2.11.dfsg-zubntu9.2]

Selecting previously unselected package libelf-dev:amd64.

Preparing to unpack .../05-libelf-dev 0.186-1bulld1_amd64.deb ...

Unpacking libelf-dev:amd64 (0.180-1bulld1) ...

Selecting previously unselected package libfl2:amd64.

Preparing to unpack .../06-libfl2_2.6.4-8bulld2_amd64.deb ...

Unpacking libfl2:amd64 (2.6.4-8bulld2) ...

Selecting previously unselected package libfl-dev:amd64.

Preparing to unpack .../07-libfl_dev_2.6.4-8bulld2_amd64.deb ...

Unpacking libfl-dev:amd64 (2.6.4-8bulld2) ...

Selecting previously unselected package libfl-dev:amd64.

Preparing to unpack .../07-libfl_dev_2.6.4-8bulld2 amd64.deb ...

Unpacking libfl-dev:amd64 (6.3-2ubuntu0.1) ...

Selecting previously unselected package libflourses-dev:amd64.

Preparing to unpack .../08-libncurses-dev_6.3-2ubuntu0.1_amd64.deb ...

Unpacking libncurses-dev:amd64 (6.3-2ubuntu0.1) ...

Selecting previously unselected package libscurses-dev:amd64.

Preparing to unpack .../09-libncurses-dev_6.3-2ubuntu0.1_amd64.deb ...

Unpacking libncurses-dev:amd64 (6.3-2ubuntu0.1) ...

Selecting up reviously unselected package libssl-dev:amd64.

Preparing to unpack .../09-libncurses-dev_6.3-2ubuntu0.1_amd64.deb ...

Unpacking libssl-dev:amd64 (6.3-2ubuntu0.1) ...

Setting up libsis-dev:amd64 (2.13-lubuntu0.1) ...

Setting up libsis-dev:amd64 (3.0-2-0buntu0.1) ...

Setting up libsis-dev:amd64 (3.13-lubuntu0.1) ...

Setting up libsis-dev:amd64 (1.12.11.dfsg-2ubuntu0.1) ...

Setting up plbsin (2:3.8.2-dfsg-lbulld1) ...

Setting up plbsin (2:3.8.2-dfsg-lbulld1) ...

Setting up librl-dev:amd64 (0.6.3-2ubuntu0.1) ...

Setting up libr
```

```
Get:39 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:40 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe i386 Packages [17.2 kB]
Get:41 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.8 kB]
Get:42 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:43 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Fetched 15.1 MB in 6s (2,494 kB/s)
^C
root@rps-virtual-machine:/usr/src/linux-5.14.3# cd /usr/src/linux-5.14.3
root@rps-virtual-machine:/usr/src/linux-5.14.3# sudo make menuconfig
  HOSTCC scripts/basic/fixdep
* Unable to find the nourses package.
* Install ncurses (ncurses-devel or libncurses-dev
* depending on your distribution).
* You may also need to install pkg-config to find the
* ncurses installed in a non-default location.
make[1]: *** [scripts/kconfig/Makefile:211: scripts/kconfig/mconf-cfg] Error 1
make: *** [Makefile:625: menuconfig] Error 2
root@rps-virtual-machine:/usr/src/linux-5.14.3# sudo make
***
*** Configuration file ".config" not found!
***
*** Please run some configurator (e.g. "make oldconfig" or
*** "make menuconfig" or "make xconfig").
***
Makefile:712: include/config/auto.conf.cmd: No such file or directory
make: *** [Makefile:721: .config] Error 1
root@rps-virtual-machine:/usr/src/linux-5.14.3# make
***
*** Configuration file ".config" not found!
***
*** Please run some configurator (e.g. "make oldconfig" or
*** "make menuconfig" or "make xconfig").
Makefile:712: include/config/auto.conf.cmd: No such file or directory
make: *** [Makefile:721: .config] Error 1
root@rps-virtual-machine:/usr/src/linux-5.14.3# make modules_install install
 ERROR: Kernel configuration is invalid.
include/generated/autoconf.h or include/config/auto.conf are missing.
Run 'make oldconfig && make prepare' on kernel src to fix it.
Makefile:667: include/config/auto.conf: No such file or directory
make[1]: *** [Makefile:743: include/config/auto.conf] Error 1
make: *** [Makeftle:351: _bulld_one_by_one] Error 2 root@rps-virtual-machine:/usr/src/linux-5.14.3# ls
                                                                                       net samples security syscalls.h usr
README scripts sound tools vir
              CREDITS
                                                 Kbuild kernel
                                                                              Makefile net
                                                  Kconfig lib
                                                                  MAINTAINERS mm
root@rps-virtual-machine:/usr/src/linux-5.14.3#
root@rps-virtual-machine:/usr/src/linux-5.14.3# cd ...
root@rps-virtual-machine:/usr/src# cd ..
root@rps-virtual-machine:/usr# cd ..
root@rps-virtual-machine:/# ls
                              lost+found mnt proc run snap swapfile tmp var media opt root sbin srv sys usr
               : lib32 libx32 media
root@rps-virtual-machine:/# cd linux-5.14.3/
bash: cd: linux-5.14.3/: No such file or directory
root@rps-virtual-machine:/# /use/src/linux-5.14.3
bash: /use/src/linux-5.14.3: No such file or directory
root@rps-virtual-machine:/# cd /usr/src/linux-5.14.3
root@rps-virtual-machine:/usr/src/linux-5.14.3# ls
                                                  Khui 1d
                                                                              Makefile
```

syscalls.h

CREDITS

```
Kbuild
                        CREDITS
                                                                                                                                                                                    syscalls.h
                                                                                                                                            README scripts sound
         COPYING
                                                                                 Kconfig lib
                                                                                                          MAINTAINERS mm
root@rps-virtual-machine:/usr/src/linux-5.14.3#
root@rps-virtual-machine:/usr/src/linux-5.14.3# cd ..
root@rps-virtual-machine:/usr/src# cd ..
root@rps-virtual-machine:/usr# cd ..
root@rps-virtual-machine:/# ls
                                                 lost+found mnt proc run snap swapfile two var media opt root sbin srv sys usr
                           lib lib64
lib32 libx32
root@rps-virtual-machine:/# cd linux-5.14.3/
bash: cd: linux-5.14.3/: No such file or directory
root@rps-virtual-machine:/# /use/src/linux-5.14.3
bash: /use/src/linux-5.14.3: No such file or directory
root@rps-virtual-machine:/# cd /usr/src/linux-5.14.3
root@rps-virtual-machine:/usr/src/linux-5.14.3# ls
                                                                                                                                           net samples security syscalls.h usr
README scripts sound tools vir
                                                                                 Kbuild kernel LICENSES
Kconfig lib MAINTAINE
                      CREDITS
                                                                                                                            Makefile net
                                                                                                         MAINTAINERS mm
  lock COPYING
root@rps-virtual-machine:/usr/src/linux-5.14.3# touch test.c
root@rps-virtual-machine:/usr/src/linux-5.14.3# ls
  rch COPYING Documentation include Kbuild clock CREDITS drivers init Kconfig
                                                                                           Makefile README security test.c virt
                                                          Kconfig LICENSES
                                                                       MAINTAINERS net
                                                                                                         scripts syscalls.h usr
root@rps-virtual-machine:/usr/src/linux-5.14.3# vim test.croot@rps-virtual-machine:/usr/src/linux-5.14.3# gcc test.c test.c: In function 'main':
test.c:14:5: warning: implicit declaration of function 'gets'; did you mean 'fgets'? [-Wimplicit-function-declaration]

14 | gets(st);
/usr/bin/ld: /tmp/ccewTb4S.o: in function `main':
root@rps-virtual-machine:/usr/src/linux-5.14.3# ./a.out
Enter an arithmetic operation: (5+9)*8
Memory address of input (outside syscall): 0x7ffdfa027920 return value from syscall: -1
root@rps-virtual-machine:/usr/src/linux-5.14.3#
```

SIMPLE MAKE FILE:-