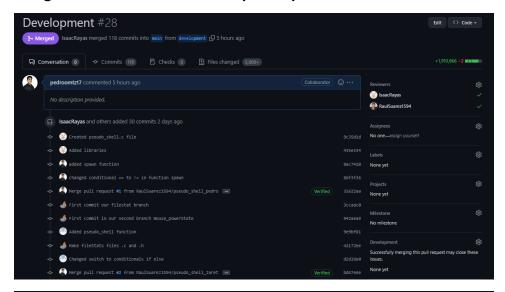
Capturas de lo realizado - Proyecto modulo 2

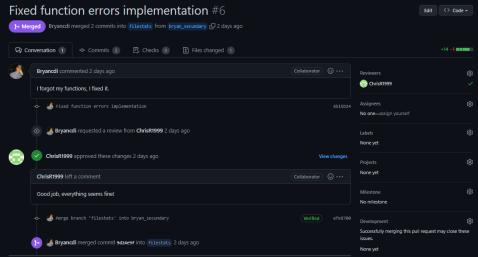
Ligas a los repositorios:

Liga del repositorio Grupal: https://github.com/RaulSuarez1594/Linux_M2_Final

Liga de los pull request realizados: <u>Pull requests · RaulSuarez1594/Linux_M2_Final</u> (github.com)

Capturas de algunos de los reviews en los pull requests:





Capturas de la compilación cruzada:

Información de los ejecutables:

o File main

artelgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src\$ file main main: ELF 32-bit LSB executable, ARM, EABI5 version 1 (SYSV), dynamically linke d, interpreter /lib/ld-linux-armhf.so.3, for GNU/Linux 2.6.32, BuildID[sha1]=9d e3b3c344ebdba6f54c001dc78b7010804b9c89, with debug_info, not stripped

Librerías compartidas:

```
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$ file libfileStats.so
libfileStats.so: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked, BuildID[sha 1]=640d577af4bba974e53f26aa63216931d8b0253c, with debug_info, not stripped
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$ file lib_memory_leaks.so
lib_memory_leaks.so: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked, BuildID
[sha1]=f112cfc7361edc3bba871654c990a2aea201fa00, with debug_info, not stripped
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$ file lib_memory_map.so
lib_memory_map.so: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked, BuildID[s
ha1]=17d980a2252a2b99fca3719cc73530b5a44d4847, with debug_info, not stripped
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$ file libmouse_powerState.so
libmouse_powerState.so: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked, BuildID[sha1]=1e7f6386eeb50fbac60adce444f142e5c8a04d83, with debug_info, not stripped
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$ file libpseudo_shell.so
libpseudo_shell.so: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked, BuildID[sha1]=a03806699a9f7a4fb22975f4aa3a8daec95e0c03, with debug_info, not stripped
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$ file libthreads_race_condition.so
libthreads_race_condition.so: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked
, BuildID[sha1]=3dd1a9f54a546aa3643b8baaed4893b817d66631, with debug_info, not stripped
arielgp@ubuntu:~/Documents/GitProyects/Linux_M2_Final/src/lib$
```

 Localización de los archivos en la beaglebone después de realizar el comando "scp" y las copias requeridas a usr/lib

```
debian@beaglebone:~$ ls
bin busybox-1.32.1 busybox-1.32.1.tar.bz2 main
debian@beaglebone:~$
```

```
debian@beaglebone:/usr/lib$ ls

apt groff locale resolvconf

arm-linux-gnueabihf kernel man-db rsyslog

avahi klibc mime sasl2

bfd-plugins libcpufreq.so.0 mjpg-streamer sftp-server

binfmt.d libcpufreq.so.0.0.0 modules-load.d ssl

bluetooth libfileStats.so NetworkManager sudo

compat-ld lib_memory_leaks.so nginx systemd

dbus-1.0 lib_memory_map.so nodejs sysusers.d

dpkg libmouse_powerState.so openssh tasksel

environment.d libpseudo_shell.so os-release

file librobotcontrol.so pkgconfig ti

igcc librobotcontrol.so.1 pkg-config.multiarch

git-core librobotcontrol.so.1.0.4 pm-utils valgrind

gnupg libroboticscape.so python2.7

gnupg2 libthreads_race_condition.so

ligold-ld linux-image-4.19.94-ti-r42 python3.7
```

Programa en ejecución – Menú principal

1.- File stats

```
Type the file?
testText

File Type: Regular File
The alphanumeric count is : 44
Size: 60 bytes
Owner: debian with an UID: 1000
File Permissions: -rw-r--r--
Inode: 49648
The creation day was: Tue, 07, Apr 2020 12:21:23

Press any character on the keyboard and then the ENTER key
```

2.- Mouse power state

3.- Memory map

```
var2: 1 at 0xbe6fb5c4
var3: 507 at 0xb6edebd8
var4: 507 at 0xbe6fb5bc
var5: 1 at 0x124a760
var6: - at 0xb6ece659
var1: 508 at 0xb6edebdc
var2: 1 at 0xbe6f759c
'var3: 508 at 0xb6edebd8
var4: 508 at 0xb6edebd8
var4: 508 at 0xb6edebd8
var6: - at 0xb6ece659
var1: 509 at 0xb6edebdc
ivar2: 1 at 0xb6f3574
lvar3: 509 at 0xb6edebd8
var4: 509 at 0xb6edebd8
var4: 509 at 0xb6edebd8
var4: 509 at 0xb6edebd8
var7: 1 at 0x124a780
lvar6: - at 0xb6ece659
var1: 510 at 0xb6edebdc
var2: 1 at 0xb6edebdc
var2: 1 at 0xb6ef3574
lvar3: 510 at 0xb6edebdc
var7: 510 at 0xb6edebdc
var8: 510 at 0xb6edebdc
var9: 1 at 0xb6edebds
var4: 510 at 0xb6edebd8
var4: 510 at 0xb6edebd8
var6: - at 0xb6ece659

Press any character on the keyboard and then the ENTER key
```

4.- Memory leaks

```
Memory Leaks has finished execution

Press any character on the keyboard and then the ENTER key
```

5.- Pseudoshell

```
Pseudo-command?
fecha, quiensoy, tiempo, modulos
fecha
Tue 07 Apr 2020 12:32:56 PM UTC
Press any character on the keyboard and then the ENTER key
```

6.- Threads race condition

```
I will create two threads
Point 1 >> X is: 0
The threads has been created
The threads have exited
Point 2 >> X is: 20000000

Press any character on the keyboard and then the ENTER key
```

7.- Exit

```
Exit was chosen!
```

Makefile utilizado

```
COMPILER_PREFIX=
CCASC
CHECC
C
```