

```
administrador@lab-dacc-08:~$ cat /etc/shadow
cat: /etc/shadow: Permissão negada
administrador@lab-dacc-08:~$ sudo cat /etc/shadow
root:$6$fyU9Rw3N.LqItk0n$rjlAFkz9RkC7fA.S9E3oQAuJB/W9Xgv9fOyPTV0rADqNc.oRjh7dtGj
R20MikCpyrvS6t0/UGj14P60yg2G0l0:19087:0:99999:7:::
daemon:*:19046:0:99999:7:::
bin:*:19046:0:99999:7:::
sys:*:19046:0:99999:7:::
sync:*:19046:0:99999:7:::
games:*:19046:0:99999:7:::
man:*:19046:0:99999:7:::
lp:*:19046:0:99999:7:::
mail:*:19046:0:99999:7:::
news:*:19046:0:99999:7:::
uucp:*:19046:0:99999:7:::
proxy:*:19046:0:99999:7:::
www-data:*:19046:0:99999:7:::
backup:*:19046:0:99999:7:::
list:*:19046:0:99999:7:::
irc:*:19046:0:99999:7:::
gnats:*:19046:0:99999:7:::
nobody:*:19046:0:99999:7:::
systemd-network:*:19046:0:99999:7:::
systemd-resolve:*:19046:0:99999:7:::
```

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cat: /etc/shadow: Permissão negada
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root:$6$fyU9Rw3N.LqItk0n$rjlAFkz9RkC7fA.S9E3oQAuJB/W9Xgv9fOyPTV0rADqNc.oRjh7dtGj
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list:*:19046:0:99999:7:::
irc:*:19046:0:99999:7:::
gnats:*:19046:0:99999:7:::
nobody:*:19046:0:99999:7:::
systemd-network:*:19046:0:99999:7:::
systemd-resolve:*:19046:0:99999:7:::
```

```
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep deivison  
deivison:$6$4ZgNW97d0IRunkqL$7XxapVgkYaFT7yAwLpiYHUi7mpY3mv47sjhHCRwY1PnPUIP.i7E  
SCxBiA/VouSYZ/Crxoe34x2nHfU9rIHEI51:19263:0:99999:7:::  
administrador@lab-dacc-08:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-5  
12 --salt=".x7wn"  
  
Comando 'mkpasswd' não encontrado, mas poder ser instalado com:  
  
sudo apt install whois  
  
administrador@lab-dacc-08:~$ echo -n "ncc1701" | mkpasswd --stdin --method=sha-5  
12 --salt=".x7wnz7y713Atz"  
  
Comando 'mkpasswd' não encontrado, mas poder ser instalado com:  
  
sudo apt install whois  
  
administrador@lab-dacc-08:~$ sudo apt install whois  
Lendo listas de pacotes... Pronto  
Construindo árvore de dependências  
Lendo informação de estado... Pronto  
0 seguinte pacote foi instalado automaticamente e já não é necessário:  
  libminizip1  
Utilize 'sudo apt autoremove' para o remover.
```

```
adm:x:4:syslog,administrador  
administrador@lab-dacc-08:~$ head -3 /etc/group | grep '^deivison:'  
administrador@lab-dacc-08:~$ head -3 /etc/group | grep '^deivison:'  
administrador@lab-dacc-08:~$ head -3 /etc/group | grep 'deivison:'  
administrador@lab-dacc-08:~$ /etc/shadow  
bash: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ cat /etc/shadow  
cat: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ cat /etc/shadow | grep deivison  
cat: /etc/shadow: Permissão negada  
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep deivison  
deivison:$6$4ZgNW97d0IRunkqL$7XxapVgkYaFT7yAwLpiYHUi7mpY3mv47sjhHCRwY1PnPUIP.i7E  
SCxBiA/VouSYZ/Crxoe34x2nHfU9rIHEI51:19263:0:99999:7:::  
administrador@lab-dacc-08:~$ mkpasswd  
Senha:  
aTrndiUVjcVM2  
administrador@lab-dacc-08:~$ echo -n "deivison" | mkpasswd --stdin --method=sha-  
512 --salt="aTrndiUVjcVM2"  
$6$aTrndiUVjcVM2$HhDKbpQEwnyA27paK3yFbl.bM4jbgn2weQvhE5FYd1oS06eZf2gL.tFWA4TXAUX  
PzRcFNScy6H0ywk.7hAJ/00  
administrador@lab-dacc-08:~$ sudo cat /etc/shadow | grep deivison  
deivison:$6$4ZgNW97d0IRunkqL$7XxapVgkYaFT7yAwLpiYHUi7mpY3mv47sjhHCRwY1PnPUIP.i7E  
SCxBiA/VouSYZ/Crxoe34x2nHfU9rIHEI51:19263:0:99999:7:::  
administrador@lab-dacc-08:~$
```

```
mount-ntfs:x:1002:aluno,administrador
vboxusers:x:137:
deivison:x:1003:
administrador@lab-dacc-08:~$ head -3 /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
administrador@lab-dacc-08:~$ head -3 /etc/group | grep 'deivison'
administrador@lab-dacc-08:~$ head -3 /etc/group | grep '^deivison'
administrador@lab-dacc-08:~$ cat /etc/group | grep '^adm:'
adm:x:4:syslog,administrador
administrador@lab-dacc-08:~$ sudo addgroup novogru...
Adicionando grupo `novogru...' (GID 1004) ...
Concluído.
administrador@lab-dacc-08:~$ cat /etc/group | grep '^novogru...'
novogru...:x:1004:
administrador@lab-dacc-08:~$ sudo usermode -a -G novogru... deivison
sudo: usermode: comando não encontrado
administrador@lab-dacc-08:~$ sudo usermod -a -G novogru... deivison
administrador@lab-dacc-08:~$ cat /etc/group | grep '^novogru...'
novogru...:x:1004:deivison
administrador@lab-dacc-08:~$ groups deivison
deivison : deivison novogru...
administrador@lab-dacc-08:~$
```

```
deivison : deivison novogru...
administrador@lab-dacc-08:~$ id
uid=1000(administrador) gid=1000(administrador) grupos=1000(administrador),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),132(lxd),133(sambashare),1002(mount-ntfs)
administrador@lab-dacc-08:~$ echo '#!/bin/bash' > HelloBash.sh
administrador@lab-dacc-08:~$ echo 'echo "Hello Bash ..."' > HelloBash.sh
administrador@lab-dacc-08:~$ cat HelloBash.sh
echo "Hello Bash ..."
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rw-rw-r-- 1 administrador administrador 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ ./HelloBash.sh
bash: ./HelloBash.sh: Permissão negada
administrador@lab-dacc-08:~$ chmod u+x HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxrwx--- 1 administrador administrador 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ ./HelloBash.sh
Hello Bash ...
administrador@lab-dacc-08:~$ chmod 700 HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwx----- 1 administrador administrador 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ cat HelloBash.sh
echo "Hello Bash ..."
administrador@lab-dacc-08:~$
```

The screenshot shows a terminal window titled "administrador@lab-dacc-08: ~". The terminal displays the following command sequence:

```
administrador@lab-dacc-08:~$ chmod 755 HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxr-xr-x 1 administrador administrador 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ sudo chgrp novogrupo HelloBash.sh
administrador@lab-dacc-08:~$ ls -l HelloBash.sh
-rwxr-xr-x 1 administrador novogrupo 22 set 28 17:47 HelloBash.sh
administrador@lab-dacc-08:~$ sudo cat /etc/sudoers
#
# This file MUST be edited with the 'visudo' command as root.
#
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
#
# See the man page for details on how to write a sudoers file.
#
Defaults      env_reset
Defaults      mail_badpass
Defaults      secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/
sbin:/bin:/snap/bin"

# Host alias specification

# User alias specification
```

```
issue
administrador@lab-dacc-08:~$ cd ~
administrador@lab-dacc-08:~$ mkdir aosp
administrador@lab-dacc-08:~$ cd aosp
administrador@lab-dacc-08:~/aosp$ repo init --depth=1 \
> -u https://android.googlesource.com/platform/manifest \
> -b android-12.0.0_r3
Downloading Repo source from https://gerrit.googlesource.com/git-repo

Your identity is: deivison <deivison.lima14@gmail.com>
If you want to change this, please re-run 'repo init' with --config-name

Testing colored output (for 'repo diff', 'repo status'):
  black    red      green     yellow   blue   magenta   cyan    white
  bold    dim    underline   reverse
Enable color display in this user account (y/N)? n

repo has been initialized in /home/administrador/aosp/
If this is not the directory in which you want to initialize repo, please run:
  rm -r /home/administrador/aosp/.repo
and try again.
administrador@lab-dacc-08:~/aosp$ ls -al
total 12
drwxrwxr-x  3 administrador administrador 4096 out  5 16:11 .
```

```
if not self._RemoteFetch(
    File "/home/administrador/aosp/.repo/repo/project.py", line 2255, in _RemoteFetch
        gitcmd = GitCommand(
            File "/home/administrador/aosp/.repo/repo/git_command.py", line 289, in __init__
                self.stdout, self.stderr = p.communicate()
                File "/usr/lib/python3.8/subprocess.py", line 1015, in communicate
                    stdout = self.stdout.read()
KeyboardInterrupt
aborted by user
administrador@lab-dacc-08:~/aosp$ nano /proc/cpuinfo
administrador@lab-dacc-08:~/aosp$ cat /proc/cpuinfo | grep processor wc -l
grep: wc: Arquivo ou diretório inexistente
administrador@lab-dacc-08:~/aosp$ cat /proc/cpuinfo | grep processor | wc -l
12
administrador@lab-dacc-08:~/aosp$ nproc --all
12
administrador@lab-dacc-08:~/aosp$ cd ~
administrador@lab-dacc-08:~$ rm -rf aosp
administrador@lab-dacc-08:~$ mv aosp-orginal aosp
mv: não foi possível obter estado de 'aosp-orginal': Arquivo ou diretório inexistente
administrador@lab-dacc-08:~$
```

```
administrador@lab-dacc-08:~/aosp$ ls -al
total 12
drwxrwxr-x 3 administrador administrador 4096 out 5 16:11 .
drwxr-xr-x 35 administrador administrador 4096 out 5 16:11 ..
drwxrwxr-x 5 administrador administrador 4096 out 5 16:12 .repo
administrador@lab-dacc-08:~/aosp$ ls -al .repo
total 24
drwxrwxr-x 5 administrador administrador 4096 out 5 16:12 .
drwxrwxr-x 3 administrador administrador 4096 out 5 16:11 ..
drwxrwxr-x 2 administrador administrador 4096 out 5 16:12 manifests
drwxrwxr-x 8 administrador administrador 4096 out 5 16:12 manifests.git
-rw-rw-r-- 1 administrador administrador 500 out 5 16:12 manifest.xml
drwxrwxr-x 11 administrador administrador 4096 out 5 16:11 repo
administrador@lab-dacc-08:~/aosp$ nano .repo/manifest.xml
administrador@lab-dacc-08:~/aosp$ nano .repo/manifest/default.xml

Utilize "fg" para retornar ao nano.

[1]+  Parado                  nano .repo/manifest/default.xml
administrador@lab-dacc-08:~/aosp$ nano .repo/manifest/default.xml
administrador@lab-dacc-08:~/aosp$ nano .repo/manifest/default.xml
administrador@lab-dacc-08:~/aosp$ nano .repo/manifests/default.xml
administrador@lab-dacc-08:~/aosp$ cat .repo/manifests/default.xml | grep '<proje
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Testing colorized output (for 'repo diff', 'repo status'):
 black  red   green  yellow  blue   magenta  cyan    white
 bold   dim   underline   reverse
Enable color display in this user account (y/N)? n

repo has been initialized in /home/administrador/aosp/
If this is not the directory in which you want to initialize repo, please run:
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total 12
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    gitcmd = GitCommand()  
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      self.stdout, self.stderr = p.communicate()  
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        stdout = self.stdout.read()  
KeyboardInterrupt  
aborted by user  
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administrador@lab-dacc-08:~/aosp$ cat /proc/cpuinfo | grep processor wc -l  
grep: wc: Arquivo ou diretório inexistente  
administrador@lab-dacc-08:~/aosp$ cat /proc/cpuinfo | grep processor | wc -l  
12  
administrador@lab-dacc-08:~/aosp$ nproc --all  
12  
administrador@lab-dacc-08:~/aosp$ cd ~  
administrador@lab-dacc-08:~$ rm -rf aosp  
administrador@lab-dacc-08:~$ mv aosp-orginal aosp  
mv: não foi possível obter estado de 'aosp-orginal': Arquivo ou diretório inexistente  
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if not self._RemoteFetch()  
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administrador@lab-dacc-08:~/aosp$ ls -al
total 12
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drwxr-xr-x 35 administrador administrador 4096 out 5 16:11 ..
drwxrwxr-x 5 administrador administrador 4096 out 5 16:12 .repo
administrador@lab-dacc-08:~/aosp$ ls -al .repo
total 24
drwxrwxr-x 5 administrador administrador 4096 out 5 16:12 .
drwxrwxr-x 3 administrador administrador 4096 out 5 16:11 ..
drwxrwxr-x 2 administrador administrador 4096 out 5 16:12 manifests
drwxrwxr-x 8 administrador administrador 4096 out 5 16:12 manifests.git
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drwxrwxr-x 11 administrador administrador 4096 out 5 16:11 repo
administrador@lab-dacc-08:~/aosp$ nano .repo/manifest.xml
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Utilize "fg" para retornar ao nano.

[1]+  Parado                  nano .repo/manifest/default.xml
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administrador@lab-dacc-08:~/aosp$ nano .repo/manifest/default.xml
administrador@lab-dacc-08:~/aosp$ nano .repo/manifests/default.xml
administrador@lab-dacc-08:~/aosp$ cat .repo/manifests/default.xml | grep '<proje
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administrador@lab-dacc-08:~$ mkdir aosp
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administrador@lab-dacc-08:~/aosp$ repo init --depth=1 \
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administrador@lab-dacc-08:~/aosp$ nano .repo/manifests/default.xml
administrador@lab-dacc-08:~/aosp$ cat .repo/manifests/default.xml | grep '<proje
```

```
administrador@lab-dacc-08:/media/arquivos/aosp$ find . | grep Integer.java
./cts/tests/location/location_gnss/src/android/location/cts/gnss/asn1/base/Asn1Integer.java
./dalvik/dexgen/src/com/android/dexgen/rop/cst/CstInteger.java
./dalvik/dx/src/com/android/dx/rop/cst/CstInteger.java
./external/antlr/tool/src/main/java/org/antlr/misc/MutableInteger.java
./external/apache-commons-bcel/src/examples/Mini/ASTInteger.java
./external/apache-commons-bcel/src/main/java/org/apache/bcel/classfile/ConstantInteger.java
./external/apache-commons-compress/src/main/java/org/apache/commons/compress/archivers/zip/ZipEightByteInteger.java
./external/guava/android/guava/src/com/google/common/primitives/UnsignedInteger.java
./external/guava/guava/src/com/google/common/primitives/UnsignedInteger.java
./external/jcommander/src/main/java/com/beust/jcommander/validators/PositiveInteger.java
./external/jcommander/src/test/java/com/beust/jcommander/args/ArgsArityInteger.java
./external/s2-geometry-library-java/src/com/google/common/geometry/MutableInteger.java
./external/robolectric-shadows/sandbox/src/test/java/org/robolectric/testing/ACLassWithMethodReturningInteger.java
./external/bouncycastle/bcprov/src/main/java/org/bouncycastle/asn1/ASN1Integer.java
```

```
GNU nano 4.8                                build/envsetup.sh
function hmm() {
cat <<EOF

Run "m help" for help with the build system itself.

Invoke ". build/envsetup.sh" from your shell to add the following functions to >
- lunch:      lunch <product_name>-<build_variant>
              Selects <product_name> as the product to build, and <build_varian>
              build, and stores those selections in the environment to be read >
              invocations of 'm' etc.
- tapas:      tapas [<App1> <App2> ...] [arm|x86|arm64|x86_64] [eng|userdebug|u]>
              Sets up the build environment for building unbundled apps (APKs).
- banchan:    banchan <module1> [<module2> ...] [arm|x86|arm64|x86_64] [eng|use]>
              Sets up the build environment for building unbundled modules (APE)
- croot:      Changes directory to the top of the tree, or a subdirectory there>
- m:          Makes from the top of the tree.
- mm:         Builds and installs all of the modules in the current directory, >
              dependencies.
- mmm:        Builds and installs all of the modules in the supplied directorie>
              dependencies.

^G Obter Ajud^O Gravar     ^W Onde está?^K Recort txt^J Justificar^C Pos atual
^X Sair      ^R Ler o arq  ^\ Substituir^U Colar txt ^T Verf0rtog ^ I Ir p/ linha
```

```
administrador@lab-dacc-08:/media/arquivos/aosp$ nano build/envsetup.sh
administrador@lab-dacc-08:/media/arquivos/aosp$ lunch
You're building on Linux
Lunch menu... pick a combo:
 1. aosp_arm-eng
 2. aosp_arm64-eng
 3. aosp_barbet-userdebug
 4. aosp_blueline-userdebug
 5. aosp_blueline_car-userdebug
 6. aosp_bonito-userdebug
 7. aosp_bonito_car-userdebug
 8. aosp_bramble-userdebug
 9. aosp_bramble_car-userdebug
10. aosp_car_arm-userdebug
11. aosp_car_arm64-userdebug
12. aosp_car_x86-userdebug
13. aosp_car_x86_64-userdebug
14. aosp_cf_arm64_auto-userdebug
15. aosp_cf_arm64_phone-userdebug
16. aosp_cf_x86_64_foldable-userdebug
17. aosp_cf_x86_64_pc-userdebug
18. aosp_cf_x86_64_phone-userdebug
```

```
16. aosp_cf_x86_64_foldable-userdebug
17. aosp_cf_x86_64_pc-userdebug
18. aosp_cf_x86_64_phone-userdebug
19. aosp_cf_x86_64_tv-userdebug
20. aosp_cf_x86_auto-userdebug
21. aosp_cf_x86_phone-userdebug
22. aosp_cf_x86_tv-userdebug
23. aosp_coral-userdebug
24. aosp_coral_car-userdebug
25. aosp_crosshatch-userdebug
26. aosp_crosshatch_car-userdebug
27. aosp_crosshatch_vf-userdebug
28. aosp_flame-userdebug
29. aosp_flame_car-userdebug
30. aosp_redfin-userdebug
31. aosp_redfin_car-userdebug
32. aosp_redfin_vf-userdebug
33. aosp_sargo-userdebug
34. aosp_sargo_car-userdebug
35. aosp_sunfish-userdebug
36. aosp_sunfish_car-userdebug
37. aosp_trout_arm64-userdebug
38. aosp_trout_x86-userdebug
39. aosp_x86-eng
```

```
48. car_x86_64-userdebug
49. db845c-userdebug
50. fuchsia_arm64-eng
51. fuchsia_x86_64-eng
52. gsi_car_arm64-userdebug
53. gsi_car_x86_64-userdebug
54. hikey-userdebug
55. hikey64_only-userdebug
56. hikey960-userdebug
57. hikey960_tv-userdebug
58. hikey_tv-userdebug
59. palomakoba_kraken-eng
60. pixel3_mainline-userdebug
61. poplar-eng
62. poplar-user
63. poplar-userdebug
64. qemu_trusty_arm64-userdebug
65. sdk_car_arm-userdebug
66. sdk_car_arm64-userdebug
67. sdk_car_x86-userdebug
68. sdk_car_x86_64-userdebug
69. silvermont-eng
70. uml-userdebug
71. yukawa-userdebug
```

```
build/make/core/envsetup.mk:316: warning: bad TARGET_BUILD_VARIANT: userdubug
In file included from build/make/core/config.mk:313:
build/make/core/envsetup.mk:317: error: must be empty or one of: eng user userde
bug.
15:17:56 dumpvars failed with: exit status 1
administrador@lab-dacc-08:/media/arquivos/aosp$ export
declare -x ANDROID_BUILD_PATHS="/media/arquivos/aosp/out/soong/host/linux-x86/bi
n:/media/arquivos/aosp/out/host/linux-x86/bin:/media/arquivos/aosp/prebuilts/gcc
/linux-x86/arm/arm-linux-androideabi-4.9/bin:/media/arquivos/aosp/development/sc
ripts:/media/arquivos/aosp/prebuilts/devtools/tools:/media/arquivos/aosp/externa
l/selinux/prebuilts/bin:/media/arquivos/aosp/prebuilts/misc/linux-x86/dtc:/media
/arquivos/aosp/prebuilts/misc/linux-x86/libufdt:/media/arquivos/aosp/prebuilts/c
lang/host/linux-x86/llvm-binutils-stable:/media/arquivos/aosp/prebuilts/android-
emulator/linux-x86_64:/media/arquivos/aosp/prebuilts/asuite/acloud/linux-x86:/me
dia/arquivos/aosp/prebuilts/asuite/aidegen/linux-x86:/media/arquivos/aosp/prebu
ilts/asuite/atest/linux-x86:"
declare -x ANDROID_BUILD_TOP="/media/arquivos/aosp"
declare -x ANDROID_DEV_SCRIPTS="/media/arquivos/aosp/development/scripts:/media/
arquivos/aosp/prebuilts/devtools/tools:/media/arquivos/aosp/external/selinux/pre
builts/bin:/media/arquivos/aosp/prebuilts/misc/linux-x86/dtc:/media/arquivos/aos
p/prebuilts/misc/linux-x86/libufdt"
declare -x ANDROID_EMULATOR_PREBUILTS="/media/arquivos/aosp/prebuilts/android-em
ulator/linux-x86_64"
declare -x ANDROID_HOST_OUT="/media/arquivos/aosp/out/host/linux-x86"
```

```
declare -x SSH_AGENT_PID="2141"
declare -x SSH_AUTH_SOCK="/run/user/1000/keyring/ssh"
declare -x TARGET_BUILD_APPS=""
declare -x TARGET_BUILD_TYPE="release"
declare -x TARGET_BUILD_VARIANT="eng"
declare -x TARGET_GCC_VERSION="4.9"
declare -x TARGET_PRODUCT="aosp_arm"
declare -x TERM="xterm-256color"
declare -x USER="administrador"
declare -x USERNAME="administrador"
declare -x VTE_VERSION="6003"
declare -x WINDOWPATH="2"
declare -x XAUTHORITY="/run/user/1000/gdm/Xauthority"
declare -x XDG_CONFIG_DIRS="/etc/xdg/xdg-ubuntu:/etc/xdg"
declare -x XDG_CURRENT_DESKTOP="ubuntu:GNOME"
declare -x XDG_DATA_DIRS="/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/l
ib/snapd/desktop"
declare -x XDG_MENU_PREFIX="gnome-"
declare -x XDG_RUNTIME_DIR="/run/user/1000"
declare -x XDG_SESSION_CLASS="user"
declare -x XDG_SESSION_DESKTOP="ubuntu"
declare -x XDG_SESSION_TYPE="x11"
declare -x XMODIFIERS="@im=ibus"
administrador@lab-dacc-08:/media/arquivos/aosp$
```

Atividades Terminal

Prática no Laboratório - X | Introdução ao AOSP:ptbx - X | Meu Drive - Google Drive +

qui 6 de out 3:20 PM •

<https://saievirtual.unir.br/mod/book/view.php?id=17965&chapterid=129>

Sala Virtual Meus cursos

PALOMAKOBA userdebug 64 bits. Usaremos nesse curso.

Participantes

Notas

Geral Fundamentos de Desenvolvimento de Software 1 Fundamentos de Desenvolvimento de Software 2 Desenvolvimento na Plataforma Android 1 Desenvolvimento na Plataforma Android 2 Fundamentos de Qualidade e Teste de Software Desenvolvimento Linux Embarcado

Tópico 7 Tópico 8 Painel Página inicial do site Calendário

Além disso, observando o final dos nomes, pode-se notar três variações diferentes de compilação:

Variação	Descrição
user	Versão final do Android que será executado pelos usuários, sem informações de debug e sem acesso a root.
userdebug	Mesmo do anterior, mas com informações de debug e com acesso a root.
eng	Versão de desenvolvimento, com ferramentas extras, informações de debug e acesso a root.

Neste curso, usaremos a versão eng ou userdebug dos produtos, para termos acesso ao usuário produto `sdk_phone_x86_64-userdebug`. Conforme mencionado, o produto `sdk_phone_x86_64` é executado em um computador com processador X86 de 64 bits, provavelmente o mesmo do seu computador. Para executar o comando `userdebug`, pressione CTRL-C no lunch anterior (caso não tenha feito ainda), e execute o comando `userdebug`.

```
$ lunch sdk_phone_x86_64-userdebug
```

Conforme mencionado, este comando precisará ser executado a cada novo terminal, logo de algumas das variáveis internas criadas e seus valores. Estes valores são usados para configurar seu terminal atual, execute o comando `export`:

```
$ export
```

Observe, em especial, as variáveis que começam com `ANDROID_`, `TARGET_`, e a variável `PATH`:

```
$ export | grep "ANDROID_|TARGET_|PATH"
```

Uma variável importante é a `ANDROID_HOST_OUT`. No AOSP, "out" indica a saída das compilações e outros resultados de comandos (imagem final do Android, arquivos intermediários, etc). Basicamente, o AOSP separa todo o seu código-fonte dos códigos compilados. Indique abaixo o valor da variável mencionada.

```
/home/unir/aosp/out/host/linux-x86
```

Deivison Corra Lima

atividades Terminal

admin@lab-dacc-08: /media/arquivos/aosp\$

```
declare -x XDG_SESSION_TYPE="x11"
declare -x XMODIFIERS="@im=ibus"
admin@lab-dacc-08:/media/arquivos/aosp$ export |grep "ANDROID_|TARGET_|PATH"
declare -x ANDROID_BUILD_PATHS="/media/arquivos/aosp/out/soong/host/linux-x86/bin:/media/arquivos/aosp/out/host/linux-x86/bin:/media/arquivos/aosp/prebuilts/gcc/linux-x86/arm/arm-linux-androideabi-4.9/bin:/media/arquivos/aosp/development/scripts:/media/arquivos/aosp/prebuilts/devtools/tools:/media/arquivos/aosp/external/selinux/prebuilts/bin:/media/arquivos/aosp/prebuilts/misc/linux-x86/dtc:/media/arquivos/aosp/prebuilts/misc/linux-x86/libufdt:/media/arquivos/aosp/prebuilts/clang/host/linux-x86/llvm-binutils-stable:/media/arquivos/aosp/prebuilts/android-emulator/linux-x86_64:/media/arquivos/aosp/prebuilts/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilts/asuite/atest/linux-x86:"
declare -x ANDROID_BUILD_TOP="/media/arquivos/aosp"
declare -x ANDROID_DEV_SCRIPTS="/media/arquivos/aosp/development/scripts:/media/arquivos/aosp/prebuilts/devtools/tools:/media/arquivos/aosp/external/selinux/prebuilts/bin:/media/arquivos/aosp/prebuilts/misc/linux-x86/dtc:/media/arquivos/aosp/prebuilts/misc/linux-x86/libufdt"
declare -x ANDROID_EMULATOR_PREBUILTS="/media/arquivos/aosp/prebuilts/android-emulator/linux-x86_64"
declare -x ANDROID_HOST_OUT="/media/arquivos/aosp/out/host/linux-x86"
declare -x ANDROID_HOST_OUT_TESTCASES="/media/arquivos/aosp/out/host/linux-x86/testcases"
```

```
declare -x ANDROID_TOOLCHAIN_2ND_ARCH=""  
declare -x ASAN_SYMBOLIZER_PATH="/media/arquivos/aosp/prebuilt/clang/host/linux-x86/llvm-binutils-stable/llvm-symbolizer"  
declare -x LD_LIBRARY_PATH="/usr/local/cuda/lib64:$LD_LIBRARY_PATH"  
declare -x PATH="/media/arquivos/aosp/prebuilt/jdk/jdk11/linux-x86/bin:/media/arquivos/aosp/out/soong/host/linux-x86/bin:/media/arquivos/aosp/prebuilt/gcc/linux-x86/arm/arm-linux-androideabi-4.9/bin:/media/arquivos/aosp/development/scripts:/media/arquivos/aosp/prebuilt/dev/tools/tools:/media/arquivos/aosp/external/selinux/prebuilt/bin:/media/arquivos/aosp/prebuilt/misc/linux-x86/libufdt:/media/arquivos/aosp/prebuilt/clang/host/linux-x86/llvm-binutils-stable:/media/arquivos/aosp/prebuilt/android-emulator/linux-x86_64:/media/arquivos/aosp/prebuilt/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilt/asuite/aidegen/linux-x86:/media/arquivos/aosp/prebuilt/asuite/atest/linux-x86:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin:/usr/local/cuda/bin:/home/administrador/bin/"  
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"  
declare -x TARGET_BUILD_APPS=""  
declare -x TARGET_BUILD_TYPE="release"  
declare -x TARGET_BUILD_VARIANT="eng"  
declare -x TARGET_GCC_VERSION="4.9"  
declare -x TARGET_PRODUCT="aosp_arm"  
declare -x WINDOWPATH="2"  
administrador@lab-dacc-08:/media/arquivos/aosp$
```

```
declare -x ANDROID_TOOLCHAIN_2ND_ARCH=""  
declare -x ASAN_SYMBOLIZER_PATH="/media/arquivos/aosp/prebuilt/clang/host/linux-x86/llvm-binutils-stable/llvm-symbolizer"  
declare -x LD_LIBRARY_PATH="/usr/local/cuda/lib64:$LD_LIBRARY_PATH"  
declare -x PATH="/media/arquivos/aosp/prebuilt/jdk/jdk11/linux-x86/bin:/media/arquivos/aosp/out/soong/host/linux-x86/bin:/media/arquivos/aosp/prebuilt/gcc/linux-x86/arm/arm-linux-androideabi-4.9/bin:/media/arquivos/aosp/development/scripts:/media/arquivos/aosp/prebuilt/dev/tools/tools:/media/arquivos/aosp/external/selinux/prebuilt/bin:/media/arquivos/aosp/prebuilt/misc/linux-x86/libufdt:/media/arquivos/aosp/prebuilt/clang/host/linux-x86/llvm-binutils-stable:/media/arquivos/aosp/prebuilt/android-emulator/linux-x86_64:/media/arquivos/aosp/prebuilt/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilt/asuite/atest/linux-x86:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/snap/bin:/usr/local/cuda/bin:/home/administrador/bin/"  
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"  
declare -x TARGET_BUILD_APPS=""  
declare -x TARGET_BUILD_TYPE="release"  
declare -x TARGET_BUILD_VARIANT="eng"  
declare -x TARGET_GCC_VERSION="4.9"  
declare -x TARGET_PRODUCT="aosp_arm"  
declare -x WINDOWPATH="2"  
administrador@lab-dacc-08:/media/arquivos/aosp$
```

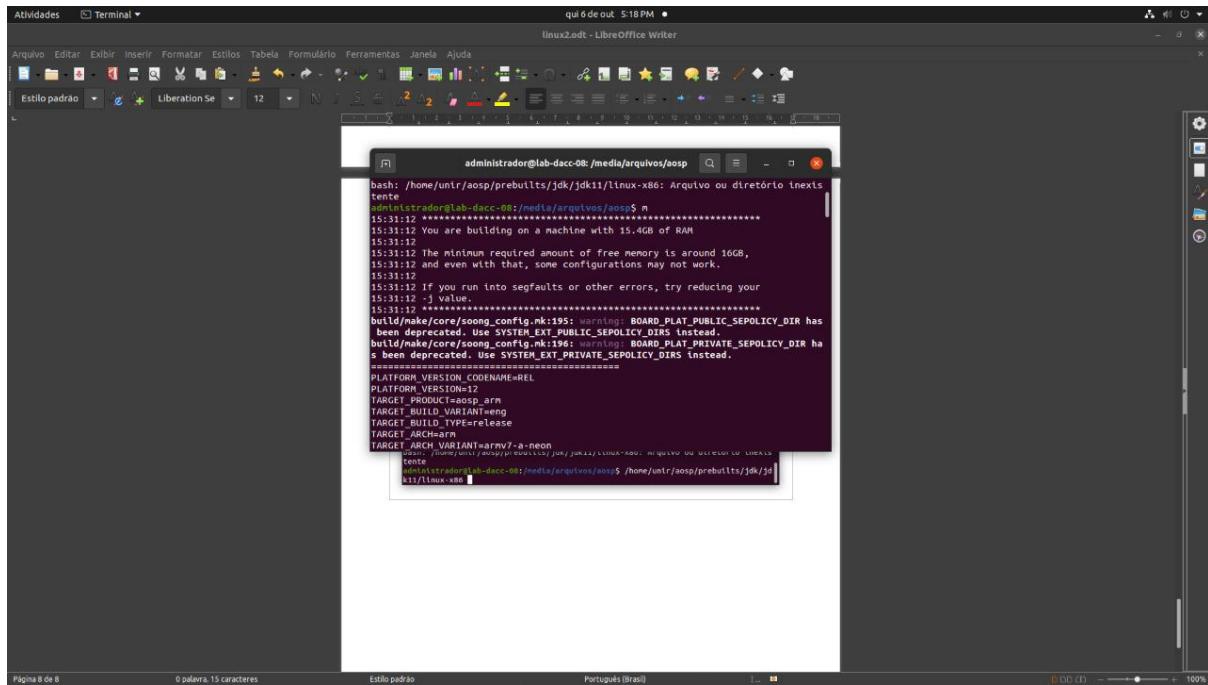
```
declare -x ANDROID_TOOLCHAIN_2ND_ARCH=""
declare -x ASAN_SYMBOLIZER_PATH="/media/arquivos/aosp/prebuilts/clang/host/linux-x86/llvm-binutils-stable/llvm-symbolizer"
declare -x LD_LIBRARY_PATH="/usr/local/cuda/lib64:$LD_LIBRARY_PATH"
declare -x PATH="/media/arquivos/aosp/prebuilts/jdk/jdk11/linux-x86/bin:/media/arquivos/aosp/out/soong/host/linux-x86/bin:/media/arquivos/aosp/out/host/linux-x86/bin:/media/arquivos/aosp/prebuilts/gcc/linux-x86/arm/arm-linux-androideabi-4.9/bin:/media/arquivos/aosp/development/scripts:/media/arquivos/aosp/prebuilts/dev-tools/tools:/media/arquivos/aosp/external/selinux/prebuilts/bin:/media/arquivos/aosp/prebuilts/misc/linux-x86/dtc:/media/arquivos/aosp/prebuilts/misc/linux-x86/libufdt:/media/arquivos/aosp/prebuilts/clang/host/linux-x86/llvm-binutils-stable:/media/arquivos/aosp/prebuilts/android-emulator/linux-x86_64:/media/arquivos/aosp/prebuilts/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilts/asuite/aidegen/linux-x86:/media/arquivos/aosp/prebuilts/asuite/atest/linux-x86:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/games:/usr/local/games:/snap/bin:/usr/local/cuda/bin:/home/administrador/bin/"
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"
declare -x TARGET_BUILD_APPS=""
declare -x TARGET_BUILD_TYPE="release"
declare -x TARGET_BUILD_VARIANT="eng"
declare -x TARGET_GCC_VERSION="4.9"
declare -x TARGET_PRODUCT="aosp_arm"
declare -x WINDOWPATH="2"
administrador@lab-dacc-08:/media/arquivos/aosp$
```

```
sp/prebuilts/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilts/asuite/aidegen/linux-x86:/media/arquivos/aosp/prebuilts/asuite/atest/linux-x86:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/games:/usr/local/games:/snap/bin:/usr/local/cuda/bin:/home/administrador/bin/"
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"
declare -x TARGET_BUILD_APPS=""
declare -x TARGET_BUILD_TYPE="release"
declare -x TARGET_BUILD_VARIANT="eng"
declare -x TARGET_GCC_VERSION="4.9"
declare -x TARGET_PRODUCT="aosp_arm"
declare -x WINDOWPATH="2"
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/out/host/linux-x86
bash: /home/unir/aosp/out/host/linux-x86: Arquivo ou diretório inexistente
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilds/jdk/jdk11/linux-x86
bash: /home/unir/aosp/prebuilds/jdk/jdk11/linux-x86: Arquivo ou diretório inexistente
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilts/jdk/jdk11/linux-x86
bash: /home/unir/aosp/prebuilts/jdk/jdk11/linux-x86: Arquivo ou diretório inexistente
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilts/jdk/jdk11/linux-x86
```

```
sp/prebuilt/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilt/asuite/aideg  
en/linux-x86:/media/arquivos/aosp/prebuilt/asuite/atest/linux-x86:/usr/local/sb  
in:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/sna  
p/bin:/usr/local/cuda/bin:/home/administrador/bin/"  
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"  
declare -x TARGET_BUILD_APPS=""  
declare -x TARGET_BUILD_TYPE="release"  
declare -x TARGET_BUILD_VARIANT="eng"  
declare -x TARGET_GCC_VERSION="4.9"  
declare -x TARGET_PRODUCT="aosp_arm"  
declare -x WINDOWPATH="2"  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/out/host/linux-x  
86  
bash: /home/unir/aosp/out/host/linux-x86: Arquivo ou diretório inexistente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilds/jdk/jd  
k11/linux-x86  
bash: /home/unir/aosp/prebuilds/jdk/jdk11/linux-x86: Arquivo ou diretório inexis  
tente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilt/jdk/jd  
k11/linux-x86  
bash: /home/unir/aosp/prebuilt/jdk/jdk11/linux-x86: Arquivo ou diretório inexis  
tente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilt/jdk/jd  
k11/linux-x86
```

```
sp/prebuilt/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilt/asuite/aideg  
en/linux-x86:/media/arquivos/aosp/prebuilt/asuite/atest/linux-x86:/usr/local/sb  
in:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/sna  
p/bin:/usr/local/cuda/bin:/home/administrador/bin/"  
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"  
declare -x TARGET_BUILD_APPS=""  
declare -x TARGET_BUILD_TYPE="release"  
declare -x TARGET_BUILD_VARIANT="eng"  
declare -x TARGET_GCC_VERSION="4.9"  
declare -x TARGET_PRODUCT="aosp_arm"  
declare -x WINDOWPATH="2"  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/out/host/linux-x  
86  
bash: /home/unir/aosp/out/host/linux-x86: Arquivo ou diretório inexistente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilds/jdk/jd  
k11/linux-x86  
bash: /home/unir/aosp/prebuilds/jdk/jdk11/linux-x86: Arquivo ou diretório inexis  
tente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilt/jdk/jd  
k11/linux-x86  
bash: /home/unir/aosp/prebuilt/jdk/jdk11/linux-x86: Arquivo ou diretório inexis  
tente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilt/jdk/jd  
k11/linux-x86
```

```
sp/prebuilt/asuite/acloud/linux-x86:/media/arquivos/aosp/prebuilt/asuite/aideg  
en/linux-x86:/media/arquivos/aosp/prebuilt/asuite/atest/linux-x86:/usr/local/sb  
in:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/games:/usr/local/games:/sna  
p/bin:/usr/local/cuda/bin:/home/administrador/bin/"  
declare -x PYTHONPATH="/media/arquivos/aosp/development/python-packages:"  
declare -x TARGET_BUILD_APPS=""  
declare -x TARGET_BUILD_TYPE="release"  
declare -x TARGET_BUILD_VARIANT="eng"  
declare -x TARGET_GCC_VERSION="4.9"  
declare -x TARGET_PRODUCT="aosp_arm"  
declare -x WINDOWPATH="2"  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/out/host/linux-x  
86  
bash: /home/unir/aosp/out/host/linux-x86: Arquivo ou diretório inexiste  
nto  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilds/jdk/jd  
k11/linux-x86  
bash: /home/unir/aosp/prebuilds/jdk/jdk11/linux-x86: Arquivo ou diretório inexis  
tente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilt/jdk/jd  
k11/linux-x86  
bash: /home/unir/aosp/prebuilt/jdk/jdk11/linux-x86: Arquivo ou diretório inexis  
tente  
administrador@lab-dacc-08:/media/arquivos/aosp$ /home/unir/aosp/prebuilt/jdk/jd  
k11/linux-x86
```

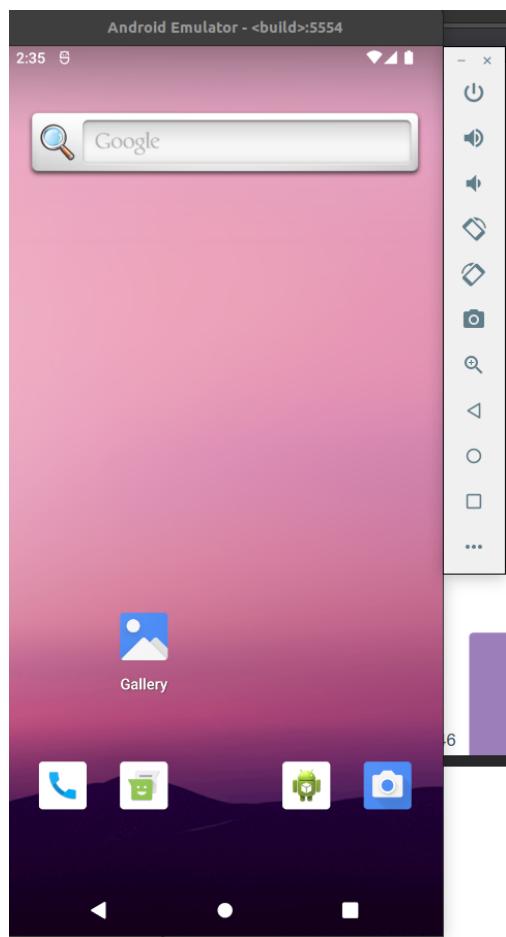


```
bash: /home/unir/aosp/prebuilts/jdk/jdk11/linux-x86: Arquivo ou diretório inexiste
administrador@lab-dacc-08:/media/arquivos/aosp$ m
15:31:12 ****
15:31:12 You are building on a machine with 15.4GB of RAM
15:31:12
15:31:12 The minimum required amount of free memory is around 16GB,
15:31:12 and even with that, some configurations may not work.
15:31:12
15:31:12 If you run into segfaults or other errors, try reducing your
15:31:12 -j value.
15:31:12 ****
build/make/core/soong_config.mk:195: warning: BOARD_PLAT_PUBLIC_SEPOLICY_DIR has
been deprecated. Use SYSTEM_EXT_PUBLIC_SEPOLICY_DIRS instead.
build/make/core/soong_config.mk:196: warning: BOARD_PLAT_PRIVATE_SEPOLICY_DIR ha
s been deprecated. Use SYSTEM_EXT_PRIVATE_SEPOLICY_DIRS instead.
=====
PLATFORM_VERSION_CODENAME=REL
PLATFORM_VERSION=12
TARGET_PRODUCT=aosp_arm
TARGET_BUILD_VARIANT=eng
TARGET_BUILD_TYPE=release
TARGET_ARCH=arm
TARGET_ARCH_VARIANT=armv7-a-neon
```

```
HOST_OS=linux
HOST_OS_EXTRA=Linux-5.13.0-51-generic-x86_64-Ubuntu-20.04.5-LTS
HOST_CROSS_OS=windows
HOST_CROSS_ARCH=x86
HOST_CROSS_2ND_ARCH=x86_64
HOST_BUILD_TYPE=release
BUILD_ID=SP1A.210812.016.A1
OUT_DIR=out
PRODUCT_SOONG_NAMESPACES=device/generic/goldfish device/generic/goldfish-opengl
hardware/google/camera hardware/google/camera/devices/EmulatedCamera device/gene
ric/goldfish device/generic/goldfish-opengl
=====
[ 91% 186/204] including system/sepolicy/Android.mk ...
system/sepolicy/Android.mk:57: warning: BOARD_PLAT_PUBLIC_SEPOLICY_DIR has been
deprecated. Use SYSTEM_EXT_PUBLIC_SEPOLICY_DIRS instead.
system/sepolicy/Android.mk:62: warning: BOARD_PLAT_PRIVATE_SEPOLICY_DIR has been
deprecated. Use SYSTEM_EXT_PRIVATE_SEPOLICY_DIRS instead.
[ 99% 203/204] finishing build rules ...
build/make/core/Makefile:4092: warning: Neither INSTALLED_KERNEL_TARGET nor INST
ALLED_BOOTIMAGE_TARGET is defined when PRODUCT_OTA_ENFORCE_VINTF_KERNEL_REQUIREM
ENTS is true. Information about the updated kernel cannot be built into OTA upd
ate package. You can fix this by: (1) setting TARGET_NO_KERNEL to false and inst
alling the built kernel to out/target/product/generic/kernel, so that kernel inf
ormation will be extracted from the built kernel; or (2) Add a prebuilt boot ima
```

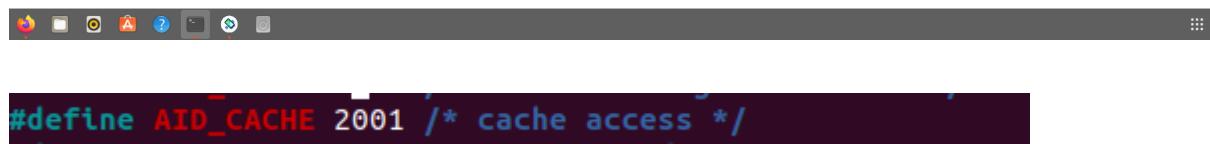
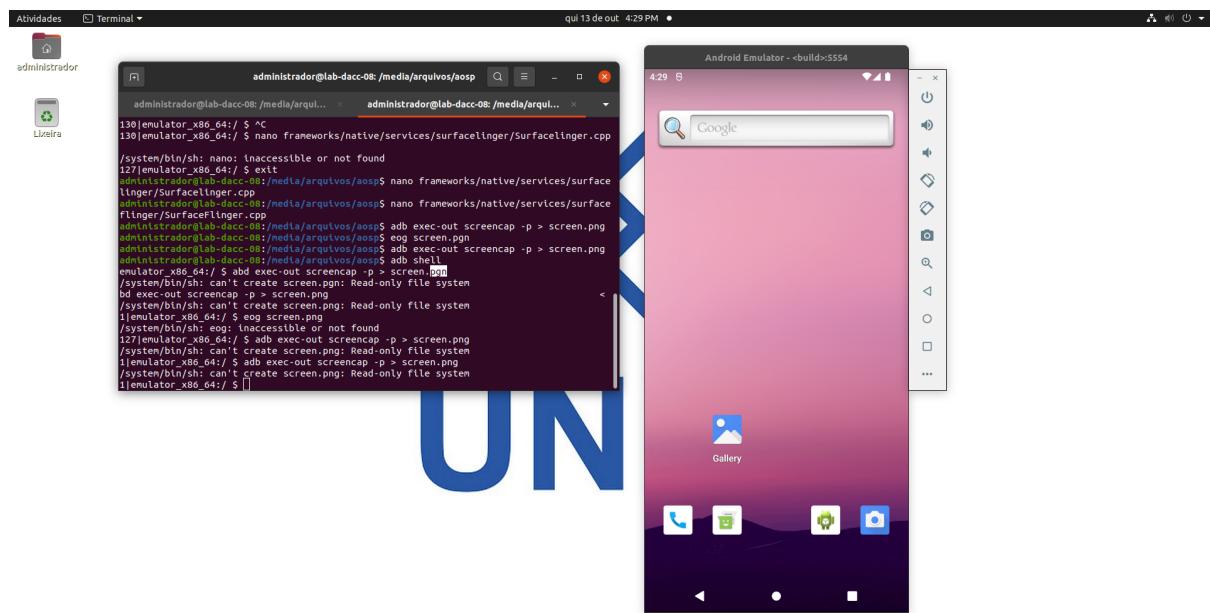


```
administrador@lab-dacc-08: /media/arquivos/aosp _manifest.pb -C /media/arquivos/aosp/out/soong/.temp/tmp_pdk3_pb/extract -f /media/arquivos/aosp/out/soong/.temp/tmp_pdk3_pb/extract/apex_pubkey -s apex_pubkey -C /media/arquivos/aosp/out/soong/.temp/tmp_pdk3_pb/extract -f /media/arquivos/aosp/out/soong/.temp/tmp_pdk3_pb/extract/apex_build_info.pb -s apex_build_info.pb -C /media/arquivos/aosp/out/soong/.temp/tmp_pdk3_pb/extract -f /media/arquivos/aosp/out/soong/.temp/tmp_pdk3_pb/extract/AndroidManifest.xml -s AndroidManifest.xml -L 9 b'' [100% 68861/68861] Target vbmota image: out/target/product/generic/vbmota.img ##### build completed successfully (02:20:16 (hh:mm:ss)) ##### administrador@lab-dacc-08:/media/arquivos/aosp$ emulator emulator: Android emulator version 30.8.3.0 (build_id 7595944) (CL:N/A) 2022-10-06 17:51:45.345 bluetooth - /buildbot/src/android/emu-master-dev/system/bt/vendor_libs/test_vendor_lib/model/setup/device_boutique.cc:33 - Register: Registering beacon_swarm 2022-10-06 17:51:45.346 bluetooth - /buildbot/src/android/emu-master-dev/system/bt/vendor_libs/test_vendor_lib/model/setup/device_boutique.cc:33 - Register: Registering beacon 2022-10-06 17:51:45.346 bluetooth - /buildbot/src/android/emu-master-dev/system/bt/vendor_libs/test_vendor_lib/model/setup/device_boutique.cc:33 - Register: Registering scripted_beacon 2022-10-06 17:51:45.346 bluetooth - /buildbot/src/android/emu-master-dev/system/
```



```
administrador@lab-dacc-08: /media/arquivos/aosp
$ su root sendevent /dev/input/event1 1 116 0
$ su root sendevent /dev/input/event1 0 0 0"
emulator: INFO: boot completed
emulator: INFO: boot time 72250 ms
emulator: Increasing screen off timeout, logcat buffer size to 2M.
emulator: Revoking microphone permissions for Google App.
$ adb shell "
$ su root sendevent /dev/input/event1 1 114 1
$ su root sendevent /dev/input/event1 1 116 1
$ su root sendevent /dev/input/event1 0 0 0
sleep 1
$ su root sendevent /dev/input/event1 1 114 0
$ su root sendevent /dev/input/event1 1 116 0
$ su root sendevent /dev/input/event1 0 0 0"
$ adb exec-out screencap -p > screen.pgn

compositionengine::LayerFE::LayerSettings watermarkLayer;
watermarkLayer.source.buffer.buffer = nullptr;
watermarkLayer.source.solidColor = half3(0.0, 0.0, 0.0);
watermarkLayer.geometry.boundaries = FloatRect(sourceCrop.left+200, sourceCrop.
op+200, sourceCrop.right-200, sourceCrop.bottom-200);
watermarkLayer.alpha = half(0.8);
clientCompositionLayers.push_back(watermarkLayer);
```



```

emulator_x86_64:/ $ ls
acct      d          init      odm      sdcard      vendor
apex      data      init.environ.rc  odm_dlkm  second_stage_resources  vendor_dlkm
bin       data_mirror linkerconfig  oem      storage
bugreports debug_ramdisk lost+found  postinstall sys
cache     dev       metadata    proc      system
config    etc       mnt        product   system_ext
emulator_x86_64:/ $ cd system
emulator_x86_64:/system $ ls
apex bin      etc      framework lib64      product   usr      xbin
app  build.prop fonts   lib      priv-app  system_ext vendor
emulator_x86_64:/system $ cd etc
emulator_x86_64:/system/etc $ ls
NOTICE.xml.gz  gps_debug.conf      res
audio_effects.conf group      sanitizer.libraries.txt
bluetooth      hosts      seccomp_policy
boot-image.bprof init      security
boot-image.prof libnfc-nci.conf  selinux
bpf           linker.config.pb  sysconfig
cgroupons.json media_profiles_V1_0.dtd  task_profiles
classpaths     mke2fs.conf  task_profiles.json
compatconfig   mkshrc      ueventd.rc
dirty-image-objects passwd      updatable-bcp-packages.txt
event-log-tags permissions  vintf
fonts.xml      ppp        vndkcorevariant.libraries.txt
fs_config_dirs preloaded-classes xtables.lock
fs_config_files protolog.conf.json.gz
fstab.postinstall public.libraries.txt
emulator_x86_64:/system/etc $ cd ..
emulator_x86_64:/system $ cd app
emulator_x86_64:/system/app $ ls
BasicDreams      CarrierDefaultApp  KeyChain      PrintSpooler
Bluetooth        CertInstaller     LiveWallpapersPicker  SecureElement
BluetoothMidiService CompanionDeviceManager NfcNci      SimAppDialog
BookmarkProvider EasterEgg        PacProcessor  Stk
CameraExtensionsProxy ExtShared     PartnerBookmarksProvider WallpaperBackup
CaptivePortalLogin HTMLViewer     PrintRecommendationService
emulator_x86_64:/system/app $ cd ~
emulator_x86_64:/ $ ls
acct      d          init      odm      sdcard      vendor
apex      data      init.environ.rc  odm_dlkm  second_stage_resources  vendor_dlkm
bin       data_mirror linkerconfig  oem      storage
bugreports debug_ramdisk lost+found  postinstall sys
cache     dev       metadata    proc      system
config    etc       mnt        product   system_ext
emulator_x86_64:/ $ cd product/app
emulator_x86_64:/product/app $ ls
Browser2  Camera2  Gallery2  ModuleMetadata  PhotoTable  WallpaperPicker  webview
Calendar  DeskClock LatinIME  Music        QuickSearchBox messaging
emulator_x86_64:/product/app $ 

```

```

administrador@lab-dacc-08:/media/arquivos/aosp$ adb shell
adb server version (41) doesn't match this client (39); killing...
* daemon started successfully
emulator_x86_64:/ $ ls
acct      d          init      odm      sdcard      vendor
apex      data      init.environ.rc  odm_dlkm  second_stage_resources  vendor_dlkm
bin       data_mirror linkerconfig  oem      storage
bugreports debug_ramdisk lost+found  postinstall sys
cache     dev       metadata    proc      system
config    etc       mnt        product   system_ext
emulator_x86_64:/ $ 

emulator_x86_64:/product/app $ su
emulator_x86_64:/product/app # whoami
root
emulator_x86_64:/product/app # id
uid=0(root) gid=0(root) groups=0(root),1004(input),1007(log),1011(adb),1015(sdcard_rw),1028(sdcard_r),1078(e
t_bt_admin),3002(net_bt),3003/inet,3006/net_bw_stats,3009/readproc,3011(uhid) context=u:r:su:s0
emulator_x86_64:/product/app # 

1|emulator_x86_64:/product/app $ id
uid=2000(shell) gid=2000(shell) groups=2000(shell),1004(input),1007(log),1011(adb),1015(s
et_bt_admin),3002(net_bt),3003/inet,3006(net_bw_stats),3009(readproc),3011(uhid) context=
emulator_x86_64:/product/app $ 

```

```
administrador@lab-dacc-08: /media/arquivos/aosp      administrador@lab-dacc-08: /media/arquivos/aosp      administrador@lab-dacc-08: /media/arquivos/aosp
GNU nano 4.8          /media/arquivos/aosp/system/core/libcutils/include/private/android_filesystem_config.h
/*
 * medtalex
 * medladrn
 * Whose friendly names do not match the #define statements.
 *
 * This file must only be used for platform (Google managed, and submitted through AOSP), AIDs. 3rd
 * party AIDs must be added via config.fs, which will place them in the corresponding partition's
 * passwd and group files. There are ranges in this file reserved for AIDs for each 3rd party
 * partition, from which the system reads passwd and group files.
 */

#pragma once

/* This is the main Users and Groups config for the platform.
 * DO NOT EVER RENUMBER
 */

#define AID_ROOT 0 /* traditional unix root user */
/* The following are for LTP and should only be used for testing */
#define AID_DAEMON 1 /* traditional unix daemon owner */
#define AID_BIN 2 /* traditional unix binaries owner */

#define AID_SYSTEM 1000 /* system server */

#define AID_RADIO 1001 /* telephony subsystem, RIL */
#define AID_BLUETOOTH 1002 /* bluetooth subsystem */
#define AID_GRAPHICS 1003 /* graphics devices */
#define AID_INPUT 1004 /* input devices */
#define AID_AUDIO 1005 /* audio devices */
#define AID_CAMERA 1006 /* camera devices */
#define AID_LOG 1007 /* log devices */
#define AID_COMPASS 1008 /* compass device */
#define AID_MOUNT 1009 /* mountd socket */
#define AID_WIFI 1010 /* wifi subsystem */
#define AID_ADB 1011 /* android debug bridge (adb) */
#define AID_INSTALL 1012 /* group for installing packages */
#define AID_MEDIA 1013 /* mediaserver process */

^G Obter Ajuda ^O Gravar ^W Onde está? ^K Recort txt ^J Pesquisa quebrada
^X Sair ^R Ler o arg ^A Substituir ^U Colar txt ^C Justificar ^L Pos atual ^M-U Desfazer ^M-A Marcar txt ^M-T Parênteses
^T Verfotog ^I Ir p/ linha ^M-E Refazer ^M-C Copiar texto ^O Onde estava
```

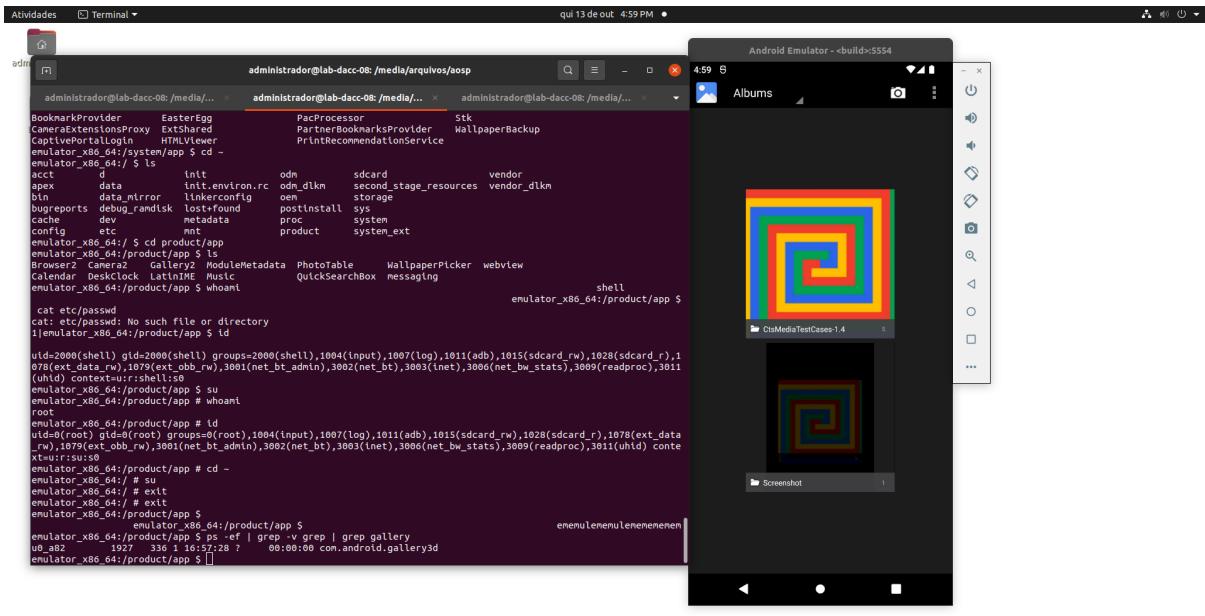
```
#define AID_SHELL 2000 /* adb and debug shell user */
#define AID_CACHE 2001 /* cache access */
#define AID_DIAG 2002 /* access to diagnostic resources */

emulator_x86_64:/product/app $ su
emulator_x86_64:/product/app # whoami
root
emulator_x86_64:/product/app # id
uid=0(root) gid=0(root) groups=0(root),1004(input),1007(log),1011(adb),1015(sdcard_rw),1028(sdcard_r),1078(ext_data_rw),1079(ext_obb_rw),3001(net_bt_admin)
,3002(net_bt),3003(inet),3006(net_bw_stats),3009(readproc),3011(uhid) context=u:r:su:s0
emulator_x86_64:/product/app #
```

```
#define AID_SHELL 2000 /* adb and debug shell user */
#define AID_CACHE 2001 /* cache access */
#define AID_DIAG 2002 /* access to diagnostic resources
```

```
1|emulator_x86_64:/product/app $ id
uid=2000(shell) gid=2000(shell) groups=2000(shell),1004(input),1007(log),1011(adb),1015(sdcard_rw),1028(sdcard_r),1078(ext_data_rw),1079(ext_obb_rw),3001(net_bt_admin),
3002(net_bt),3003(inet),3006(net_bw_stats),3009(readproc),3011(uhid) context=u:r:shell:s0
emulator_x86_64:/product/app $
```

```
emulator_x86_64:/product/app $ cat /data/system/packages.list | grep "com.android.contacts"
cat: /data/system/packages.list: Permission denied
1|emulator_x86_64:/product/app $ cd /data/data/com.android.contacts
/system/bin/sh: cd: /data/data/com.android.contacts: Permission denied
2|emulator_x86_64:/product/app $ ls -al
total 60
drwxr-xr-x 15 root root 4096 2022-10-07 18:48 .
drwxr-xr-x 10 root root 4096 2022-10-07 18:47 ..
drwxr-xr-x 3 root root 4096 2022-10-07 18:48 Browser2
drwxr-xr-x 3 root root 4096 2022-10-07 18:48 Calendar
drwxr-xr-x 4 root root 4096 2022-10-07 18:48 Camera2
drwxr-xr-x 3 root root 4096 2022-10-07 18:48 DeskClock
drwxr-xr-x 4 root root 4096 2022-10-07 18:49 Gallery2
drwxr-xr-x 4 root root 4096 2022-10-07 18:49 LatinIME
drwxr-xr-x 2 root root 4096 2022-10-07 18:46 ModuleMetadata
drwxr-xr-x 3 root root 4096 2022-10-07 18:49 Music
drwxr-xr-x 3 root root 4096 2022-10-07 18:49 PhotoTable
drwxr-xr-x 3 root root 4096 2022-10-07 18:49 QuickSearchBox
drwxr-xr-x 3 root root 4096 2022-10-07 18:50 WallpaperPicker
drwxr-xr-x 3 root root 4096 2022-10-07 18:48 messaging
drwxr-xr-x 3 root root 4096 2022-10-07 18:51 webview
emulator_x86_64:/product/app $
```



```
emulator_x86_64:/product/app $ cat /data/system/packages.list | grep "com.android.contacts"
cat: /data/system/packages.list: Permission denied
1|emulator_x86_64:/product/app $ cd /data/data/com.android.contacts
/system/bin/sh: cd: /data/data/com.android.contacts: Permission denied
2|emulator_x86_64:/product/app $ 

emulator_x86_64:/ $ cd system/bin
emulator_x86_64:/system/bin $ ls -al
ls: ..: Permission denied
1|emulator_x86_64:/system/bin $ ls -al | grep toybox | wc -l
ls: ..: Permission denied
0
emulator_x86_64:/system/bin $ toybox
[ acpi basename blkdiscard blkid blockdev cal cat chattr chcon chgrp chmod chown chroot chrt cksum
clear cmp comm cp cpio cut date dd devmem df diff dirname dmesg dos2unix du echo egrep env expand expr
fallocate false fgrep file find flock fmt free freeramdisk fsfreeze fsync getconf getenforce getfattr
getopt grep groups gunzip gzip head help hostname hwclock i2cdetect i2cdump i2cget i2cset iconv id ifconfig
inotifyd insmod install ionice iorename iotop kill killall ln load_policy log logname losetup ls lsattr
lsmod lsof lspci lsusb makedevs md5sum microcom mkdirp mkswap mktemp modinfo modprobe more
mount mountpoint mv nbd-client nc netcat netstat nice nl nohup nproc nsenter od partprobe paste patch
pgrep pidof ping ping6 pivot_root pkill pmmap printenv printf prlimit ps pwd pdwdx readelf readlink realpath
renice restorecon rev rfcfilter rm rmdir rmmod rtcwake runcon sed sendevent seq setenforce setfattr setsid
sha1sum sha224sum sha256sum sha384sum sha512sum sleep sort split stat strings stty swapoff swapon sync
sysctl tac tail tar taskset tee test time timeout top touch tr traceroute traceroute6 true truncate tty
tunctl ulimit umount uname uniq unix2dos unlink unshare uptime usleep uudecode uuencode uuidgen vconfig
vi vmstat watch wc which whoami xargs xxd yes zcat

1|emulator_x86_64:/ $ su u0_a72
emulator_x86_64:/ $ id
uid=10072(u0_a72) gid=10072(u0_a72) groups=10072(u0_a72),1004(input),1007(log),1011(adb),1015(sdcard_rw),1028(sdcar_d_r),1078(ext_data_rw),1079(ext_obb_rw),3001(net_bt_admin),3002(net_bt),3003(inet),3006(net_bw_stats),3009(readproc ),3011(uhid) context=u::r:su:s0
emulator_x86_64:/ $ 

root@ltsystem:~# 
administrador@lab-dacc-08:/media/arquivos/aosp$ nano /media/arquivos/aosp/packages/apps/Contacts/AndroidManifest.xml
l
administrador@lab-dacc-08:/media/arquivos/aosp$ ./media/arquivos/aosp/teste
wadicteadaslab-dacc-08:/media/arquivos/aosp$ ./media/arquivos/aosp/teste
wadicteadaslab-dacc-08:/media/arquivos/aosp$ ./media/arquivos/aosp/teste
#define AF_ID_NET_BT 3002 /* Bluetooth: Create SCO, PICONN or L2CAP sockets */
#define AF_ID_INET 3003 /* can create AF_INET and AF_INET6 sockets */
#define AF_ID_NET_RAW 3004 /* can create raw TNFT sockets */

```

```

130|emulator_x86_64:/ $ logcat -h
Usage: logcat [options] [filterspecs]

General options:
  -b, --buffer=<buffer>      Request alternate ring buffer(s):
                                main system radio events crash default all
                                Additionally, 'kernel' for userdebug and eng builds, and
                                'security' for Device Owner installations.
                                Multiple -b parameters or comma separated list of buffers are
                                allowed. Buffers are interleaved.
  -L, --last                  Dump logs from prior to last reboot from pstore.
  -c, --clear                  Clear (flush) the entire log and exit.
                                if -f is specified, clear the specified file and its related rotated
                                log files instead.
  -d                          If -L is specified, clear pstore log instead.
  -pid=<pid>                 Dump the log and then exit (don't block).
  -wrap                       Only print logs from the given pid.
                                Sleep for 2 hours or when buffer about to wrap whichever
                                comes first. Improves efficiency of polling by providing
                                an about-to-wrap wakeup.

Formatting:
  -v, --format=<format>       Sets log print format verb and adverbs, where <format> is one of:
                                brief help long process raw tag thread threadtime time
                                Modifying adverbs can be added:
                                color descriptive epoch monotonic printable uid usec UTC year zone
                                Multiple -v parameters or comma separated list of format and format
                                modifiers are allowed.
  -D, --dividers              Print dividers between each log buffer.
  -B, --binary                Output the log in binary.

Output files:
  -f, --file=<file>          Log to file instead of stdout.
  -r, --rotate-kbytes=<n>    Rotate log every <n> kbytes. Requires -f option.
  -n, --rotate-count=<count> Sets max number of rotated logs to <count>, default 4.
  -id=<id>                  If the signature <id> for logging to file changes, then clear the
                                associated files and continue.

Log control:
These options send a control message to the logd daemon on device, print its return message if
applicable, then exit. They are incompatible with -L, as these attributes do not apply to pstore.
  -g, --buffer-size           Get the size of the ring buffers within logd.
  -G, --buffer-size=<size>    Set size of a ring buffer in logd. May suffix with K or M.
                                This can individually control each buffer's size with -b.
  -S, --statistics           Output statistics.
  -p, --prune                 -pid can be used to provide pid specific stats.
                                Print prune rules. Each rule is specified as UID, UID/PID or /PID. A
                                '~' prefix indicates that elements matching the rule should be pruned
                                with higher priority otherwise they're pruned with lower priority. All
                                other pruning activity is oldest first. Special case ~! represents an
                                automatic pruning for the noisiest UID as determined by the current

```

```

130|emulator_x86_64:/ $ logcat -b events
----- beginning of events -----
10-13 16:39:36.742 170 I auditd : type=2000 audit(0.0): state=initialized audit_enabled=0 res=1
10-13 16:39:39.768 170 I auditd : type=1403 audit(0.0): auditd=4294967295 ses=4294967295 lsm=selinux res=1
10-13 16:39:41.768 170 I auditd : type=1403 audit(0.0): enforcing=1 old_enforcing=0 auditd=4294967295 ses=4294967295 enabled=1 old-enabled=1 lsm=selinux res=1
10-13 16:39:41.768 170 I auditd : type=1403 audit(0.0): enforcing=1 old_enforcing=0 auditd=4294967295 ses=4294967295 enabled=1 old-enabled=1 lsm=selinux res=1
10-13 16:39:41.590 172 I auditd : type=1400 audit(0.0): avc: denied { execute_no_trans } for comm="init" path="/vendor/bin/toybox_vendor" dev="dm-3" ino=231 scontext=u:r:init:s0 tcontext=u:r:object_r:ve
ndor.toolbox_exec:s0 tclass=file permissiveto bug:b183668221
10-13 16:39:41.590 172 I auditd : /system/etc/selinux/plat_service_contexts
10-13 16:39:41.715 189 I auditd : /vendor/etc/selinux/vendor_service_contexts
10-13 16:39:41.715 189 I auditd : SELinux: Loaded keystore2_key_contexts from:
10-13 16:39:41.715 189 I auditd : /system/etc/selinux/plat_keystore2_key_contexts
10-13 16:39:42.080 222 I auditd : type=1400 audit(0.0): avc: denied { execute_no_trans } for comm="init" path="/vendor/bin/toybox_vendor" dev="dm-3" ino=231 scontext=u:r:init:s0 tcontext=u:r:object_r:ve
ndor.toolbox_exec:s0 tclass=file permissiveto bug:b183668221
10-13 16:39:44.117 336 I boot_progress_start: 8203
10-13 16:39:44.800 336 I boot_progress_start: 8094
10-13 16:39:44.800 336 I boot_progress_start: 8094
10-13 16:39:46.077 543 I system.server.start: [1,10152,10152]
10-13 16:39:46.077 543 I system.server.start: [1,10152,10152]
10-13 16:39:46.077 543 I rescue.note: [0,1,10593]
10-13 16:39:46.507 543 I system.server.start: [1,10152,10152]
10-13 16:39:46.077 543 I system.server.start: [1,10152,10152]
10-13 16:39:46.077 543 I rescue.note: [0,1,10593]
10-13 16:39:46.524 543 I boot_progress_pms_start: 10067
10-13 16:39:46.575 543 I commit_sys_config_file: [batterystats,1]
10-13 16:39:46.477 543 I commit_sys_config_file: [batterystats,1]
10-13 16:39:46.507 543 I battery_status: [4,2,1,0,Li-ion]
10-13 16:39:46.507 543 I battery_level: [100,5000,250]
10-13 16:39:46.716 543 I commit_sys_config_file: [package-user-0,14]
10-13 16:39:46.717 543 I commit_sys_config_file: [package_25]
10-13 16:39:46.717 543 I boot_progress_pms_ready: 10803
10-13 16:39:46.733 543 I am_uid_running: 1080
10-13 16:39:46.733 543 I am_wtf: [0,543,system.server,-1,SystemServiceRegistry,No service published for: ethernet]
10-13 16:39:46.811 543 I commit_sys_config_file: [overlays,2]
10-13 16:39:46.811 543 I battery_status: [4,2,1,0,Li-ion]
10-13 16:39:46.811 543 I battery_level: [100,5000,250]
10-13 16:39:46.936 543 I wn_task_created: [-1,-1]
10-13 16:39:47.019 543 I sysutil_multi_action: [757,1659,758,4,759,1,1660,8]
10-13 16:39:47.021 543 I configuration changed: 8
10-13 16:39:47.237 543 I service_manager_slow: [12,wtfIn18021]
10-13 16:39:47.250 543 I am_wtf : [0,543,system.server,-1,SystemServiceRegistry,No service published for: ethernet]
10-13 16:39:47.250 543 I stream_devices_changed: [3,0,2]
10-13 16:39:47.347 543 I stream_devices_changed: [3,0,2]
10-13 16:39:47.349 543 I stream_devices_changed: [3,0,2]
10-13 16:39:47.359 543 I stream_devices_changed: [2,0,2]
10-13 16:39:47.359 543 I stream_devices_changed: [0,0,2]
10-13 16:39:47.359 543 I stream_devices_changed: [0,0,2]
10-13 16:39:47.434 543 I stream_devices_changed: 8
10-13 16:39:47.451 543 S71 I am_wtf : [0,543,system.server,-1,DisplayDeviceConfig,requesting nits when no mapping exists.]
10-13 16:39:47.453 543 S71 I am_wtf : [0,543,system.server,-1,DisplayDeviceConfig,requesting nits when no mapping exists.]
10-13 16:39:47.456 543 S43 I commit_sys_config_file: [package-session,2]
10-13 16:39:47.482 543 S71 I am_wtf : [0,543,system.server,-1,DisplayDeviceConfig,requesting nits when no mapping exists.]

```

```
127|emulator_x86_64:/ $ logcat -s Zygote
----- beginning of main -----
10-13 16:39:44.808 336 336 D Zygote : begin preload
10-13 16:39:44.808 336 336 I Zygote : Calling ZygoteHooks.beginPreload()
10-13 16:39:44.864 336 336 I Zygote : Preloading classes...
10-13 16:39:45.023 337 337 I Zygote : Accepting command socket connections
10-13 16:39:45.301 336 336 W Zygote : Class not found for preloading: android.view.SurfaceView$2
10-13 16:39:45.771 336 336 I Zygote : ...preloaded 13903 classes in 907ms.
10-13 16:39:45.776 336 336 I Zygote : Prelading resources...
10-13 16:39:45.807 336 336 I Zygote : ...preloaded 64 resources in 30ms.
10-13 16:39:45.808 336 336 I Zygote : ...preloaded 41 resources in 2ms.
10-13 16:39:45.813 336 336 I Zygote : Prelading shared llbraries...
10-13 16:39:45.815 336 336 I Zygote : Called ZygoteHooks.endPreload()
10-13 16:39:45.816 336 336 I Zygote : Installed AndroidKeystoreProvider in 0ms.
10-13 16:39:45.817 336 336 I Zygote : Warmed up JCA providers in 1ms.
10-13 16:39:45.817 336 336 D Zygote : end preload
10-13 16:39:45.902 336 336 D Zygote : Forked child process 543
10-13 16:39:45.902 336 336 I Zygote : System server process 543 has been created
10-13 16:39:45.903 336 336 I Zygote : Accepting command socket connections
10-13 16:39:46.837 337 337 I Zygote : Lazily preloading resources.
10-13 16:39:46.837 337 337 D Zygote : begin preload
10-13 16:39:46.837 337 337 I Zygote : Calling ZygoteHooks.beginPreload()
10-13 16:39:46.884 337 337 I Zygote : Preloading classes...
10-13 16:39:47.356 337 337 W Zygote : Class not found for preloading: android.view.SurfaceView$2
10-13 16:39:47.487 337 337 I Zygote : ...preloaded 13903 classes in 598ms.
10-13 16:39:47.508 337 337 I Zygote : Preloading resources...
10-13 16:39:47.524 337 337 I Zygote : ...preloaded 64 resources in 17ms.
10-13 16:39:47.526 337 337 I Zygote : ...preloaded 41 resources in 1ms.
10-13 16:39:47.534 337 337 I Zygote : Prelading shared llbraries...
10-13 16:39:47.566 337 337 I Zygote : Called ZygoteHooks.endPreload()
10-13 16:39:47.566 337 337 I Zygote : Installed AndroidKeystoreProvider in 0ms.
10-13 16:39:47.576 337 337 I Zygote : Warmed up JCA providers in 4ms.
10-13 16:39:47.576 337 337 D Zygote : end preload
10-13 16:39:47.592 336 336 D Zygote : Forked child process 701
10-13 16:39:47.610 336 336 D Zygote : Forked child process 715
10-13 16:39:47.724 337 337 D Zygote : Forked child process 759
10-13 16:39:47.730 336 336 D Zygote : Forked child process 766
10-13 16:39:47.766 336 336 D Zygote : Forked child process 801
10-13 16:39:47.818 336 336 D Zygote : Forked child process 827
10-13 16:39:47.918 337 337 I Zygote : Process 759 exited cleanly (0)
10-13 16:39:47.981 336 336 D Zygote : Forked child process 872
10-13 16:39:47.988 336 336 D Zygote : Forked child process 874
10-13 16:39:48.007 337 337 W Zygote : forkRepeatedly terminated due to non-simple command
10-13 16:39:48.007 337 337 D Zygote : mbuffer starts with 14, nice name is webview_zygote, mEnd = 392, mNext = 159, mLinesLeft = 6, mFd = 9
10-13 16:39:48.104 337 337 D Zygote : Forked child process 918
10-12 16:12:49.100 226 226 I Zygote : Process 766 exited cleanly (-1)
```

```
[Thu Oct 13 16:59:43 2022] healthd: battery l=100 v=5000 t=25.0 h=2 st=4 c=900000 fc=300000 cc=10 chg=
[Thu Oct 13 17:09:43 2022] healthd: battery l=100 v=5000 t=25.0 h=2 st=4 c=900000 fc=300000 cc=10 chg=
[Thu Oct 13 17:19:43 2022] healthd: battery l=100 v=5000 t=25.0 h=2 st=4 c=900000 fc=300000 cc=10 chg=
[Thu Oct 13 17:27:07 2022] init: Untracked pid 2065 exited with status 129
[Thu Oct 13 17:27:49 2022] planet: Omicron Persei 8
```