1.

ls

Desktop Downloads Music Public Templates

Documents examples.desktop Pictures Reed Videos

2.

ls -l

total 44

drwxr-xr-x 2 dylan dylan 4096 Feb 13 22:09 Desktop

drwxr-xr-x 4 dylan dylan 4096 Feb 15 10:43 Documents

drwxr-xr-x 8 dylan dylan 4096 Feb 13 22:17 Downloads

-rw-r--r-- 1 dylan dylan 8980 Feb 13 22:02 examples.desktop

drwxr-xr-x 2 dylan dylan 4096 Feb 13 22:09 Music

drwxr-xr-x 2 dylan dylan 4096 Feb 13 22:09 Pictures

drwxr-xr-x 2 dylan dylan 4096 Feb 13 22:09 Public

drwxr-xr-x 2 dylan dylan 4096 Feb 13 22:09 Templates

drwxr-xr-x 2 dylan dylan 4096 Feb 13 22:09 Videos

3.

I believe that the first ten characters are the directory to the file.

4.

du

4 ./Public

8 ./Documents/ASEN4519

4 ./Documents/MATLAB

16 ./Documents

48 ./.java/fonts/1.7.0\_60

52 ./.java/fonts

56 ./.java

4 ./.local/share/sounds

12 ./.local/share/icc

76 ./.local/share/gvfs-metadata

4 ./.local/share/nautilus/scripts

8 ./.local/share/nautilus

4 ./.local/share/unity-settings-daemon

12 ./.local/share/keyrings

4 ./.local/share/applications

4 ./.local/share/evolution/mail/trash

8 ./.local/share/evolution/mail

4 ./.local/share/evolution/tasks/trash

8 ./.local/share/evolution/tasks/system

16 ./.local/share/evolution/tasks

4 ./.local/share/evolution/calendar/trash

8 ./.local/share/evolution/calendar/system

16 ./.local/share/evolution/calendar

4 ./.local/share/evolution/addressbook/trash

4 ./.local/share/evolution/addressbook/system/photos

32 ./.local/share/evolution/addressbook/system

40 ./.local/share/evolution/addressbook

4 ./.local/share/evolution/memos/trash

8 ./.local/share/evolution/memos

92 ./.local/share/evolution

104 ./.local/share/zeitgeist/fts.index

352 ./.local/share/zeitgeist

580 ./.local/share

584 ./.local

4 ./.config/upstart

12 ./.config/compiz-1/compizconfig

16 ./.config/compiz-1

4 ./.config/update-notifier

16 ./.config/libaccounts-glib

4 ./.config/unity

8 ./.config/gtk-3.0

20 ./.config/dconf

20 ./.config/nautilus

84 ./.config/pulse

8 ./.config/ibus/bus

12 ./.config/ibus

4 ./.config/gnome-session/saved-session

8 ./.config/gnome-session

8 ./.config/evolution/sources

12 ./.config/evolution

220 ./.config

4 ./.subversion/auth/svn.username

4 ./.subversion/auth/svn.ssl.server

4 ./.subversion/auth/svn.simple

4 ./.subversion/auth/svn.ssl.client-passphrase

20 ./.subversion/auth

48 ./.subversion

4 ./Pictures

4 ./Desktop

4 ./.gnupg/private-keys-v1.d

8 ./.gnupg

72 ./.cache/upstart

8 ./.cache/logrotate

272 ./.cache/gstreamer-1.0

128 ./.cache/compizconfig-1

820 ./.cache/wallpaper

20 ./.cache/ibus/bus

24 ./.cache/ibus

4 ./.cache/evolution/mail/trash

8 ./.cache/evolution/mail

4 ./.cache/evolution/tasks/trash

8 ./.cache/evolution/tasks

4 ./.cache/evolution/calendar/trash

8 ./.cache/evolution/calendar

4 ./.cache/evolution/addressbook/trash

8 ./.cache/evolution/addressbook

4 ./.cache/evolution/sources/trash

8 ./.cache/evolution/sources

4 ./.cache/evolution/memos/trash

8 ./.cache/evolution/memos

52 ./.cache/evolution

24 ./.cache/gnome-software/3.20/firmware

28 ./.cache/gnome-software/3.20

32 ./.cache/gnome-software

26736 ./.cache/mozilla/firefox/b52ou6z4.default/cache2/entries

24 ./.cache/mozilla/firefox/b52ou6z4.default/cache2/doomed

26812 ./.cache/mozilla/firefox/b52ou6z4.default/cache2

1440 ./.cache/mozilla/firefox/b52ou6z4.default/startupCache

8628 ./.cache/mozilla/firefox/b52ou6z4.default/safebrowsing

396 ./.cache/mozilla/firefox/b52ou6z4.default/thumbnails

37288 ./.cache/mozilla/firefox/b52ou6z4.default

37292 ./.cache/mozilla/firefox

37296 ./.cache/mozilla

38724 ./.cache

4 ./Templates

4 ./.mozilla/extensions

4 ./.mozilla/firefox/b52ou6z4.default/extensions

4 ./.mozilla/firefox/b52ou6z4.default/minidumps

4 ./.mozilla/firefox/b52ou6z4.default/storage/permanent/chrome/idb/2918063365piupsah.files

56 ./.mozilla/firefox/b52ou6z4.default/storage/permanent/chrome/idb

64 ./.mozilla/firefox/b52ou6z4.default/storage/permanent/chrome

68 ./.mozilla/firefox/b52ou6z4.default/storage/permanent

4 ./.mozilla/firefox/b52ou6z4.default/storage/default/http+++www.tecmint.com/idb/12183338011.files

84 ./.mozilla/firefox/b52ou6z4.default/storage/default/http+++www.tecmint.com/idb

92 ./.mozilla/firefox/b52ou6z4.default/storage/default/http+++www.tecmint.com

96 ./.mozilla/firefox/b52ou6z4.default/storage/default

4 ./.mozilla/firefox/b52ou6z4.default/storage/temporary

172 ./.mozilla/firefox/b52ou6z4.default/storage

36 ./.mozilla/firefox/b52ou6z4.default/datareporting/archived/2017-02

40 ./.mozilla/firefox/b52ou6z4.default/datareporting/archived

64 ./.mozilla/firefox/b52ou6z4.default/datareporting

4 ./.mozilla/firefox/b52ou6z4.default/gmp/Linux\_x86\_64-gcc3

8 ./.mozilla/firefox/b52ou6z4.default/gmp

8 ./.mozilla/firefox/b52ou6z4.default/bookmarkbackups

8 ./.mozilla/firefox/b52ou6z4.default/webapps

4 ./.mozilla/firefox/b52ou6z4.default/saved-telemetry-pings

4 ./.mozilla/firefox/b52ou6z4.default/crashes/events

12 ./.mozilla/firefox/b52ou6z4.default/crashes

1352 ./.mozilla/firefox/b52ou6z4.default/gmp-gmpopenh264/1.6

1356 ./.mozilla/firefox/b52ou6z4.default/gmp-gmpopenh264

848 ./.mozilla/firefox/b52ou6z4.default/features/{849e83b7-2d0e-4055-a89e-695e48a0ca36}

852 ./.mozilla/firefox/b52ou6z4.default/features

1316 ./.mozilla/firefox/b52ou6z4.default/sessionstore-backups

17272 ./.mozilla/firefox/b52ou6z4.default

4 ./.mozilla/firefox/Crash Reports/events

12 ./.mozilla/firefox/Crash Reports

17292 ./.mozilla/firefox

17300 ./.mozilla

4 ./Music

4 ./.gconf

4 ./Videos

48 ./Downloads/java/jar/zh\_CN

52 ./Downloads/java/jar/ja\_JP

52 ./Downloads/java/jar/ko\_KR

3220 ./Downloads/java/jar

8 ./Downloads/java/config/default

8 ./Downloads/java/config/professionalinstaller

20 ./Downloads/java/config

716 ./Downloads/java/jarext/guice

16 ./Downloads/java/jarext/webservices/udc\_client

688 ./Downloads/java/jarext/webservices/urlmanager

16 ./Downloads/java/jarext/webservices/mcr\_dws\_client

40 ./Downloads/java/jarext/webservices/ws\_client\_core

24 ./Downloads/java/jarext/webservices/udc\_client\_installer

1264 ./Downloads/java/jarext/webservices

4232 ./Downloads/java/jarext/axis2

16768 ./Downloads/java/jarext

20080 ./Downloads/java

10616 ./Downloads/help/install/csh

10620 ./Downloads/help/install

220 ./Downloads/help/templates

396 ./Downloads/help/includes/product/images/doc\_center

8 ./Downloads/help/includes/product/images/global/logos

952 ./Downloads/help/includes/product/images/global

180 ./Downloads/help/includes/product/images/nextgen/doc\_center

48 ./Downloads/help/includes/product/images/nextgen/global

44 ./Downloads/help/includes/product/images/nextgen/supporting/apps/doc\_center

48 ./Downloads/help/includes/product/images/nextgen/supporting/apps

52 ./Downloads/help/includes/product/images/nextgen/supporting

284 ./Downloads/help/includes/product/images/nextgen

1636 ./Downloads/help/includes/product/images

400 ./Downloads/help/includes/product/scripts/jquery

16 ./Downloads/help/includes/product/scripts/iepngfix

592 ./Downloads/help/includes/product/scripts

712 ./Downloads/help/includes/product/css

240 ./Downloads/help/includes/product/fonts

3184 ./Downloads/help/includes/product

80 ./Downloads/help/includes/web/html

24 ./Downloads/help/includes/web/images

24 ./Downloads/help/includes/web/scripts

108 ./Downloads/help/includes/web/css

240 ./Downloads/help/includes/web

212 ./Downloads/help/includes/shared/scripts

528 ./Downloads/help/includes/shared/equationrenderer/release/dijit/themes/tundra/images

532 ./Downloads/help/includes/shared/equationrenderer/release/dijit/themes/tundra

20 ./Downloads/help/includes/shared/equationrenderer/release/dijit/themes/a11y

88 ./Downloads/help/includes/shared/equationrenderer/release/dijit/themes/claro/images

92 ./Downloads/help/includes/shared/equationrenderer/release/dijit/themes/claro

648 ./Downloads/help/includes/shared/equationrenderer/release/dijit/themes

76 ./Downloads/help/includes/shared/equationrenderer/release/dijit/icons/images

100 ./Downloads/help/includes/shared/equationrenderer/release/dijit/icons

752 ./Downloads/help/includes/shared/equationrenderer/release/dijit

20 ./Downloads/help/includes/shared/equationrenderer/release/dgrid/css/images

24 ./Downloads/help/includes/shared/equationrenderer/release/dgrid/css/extensions

8 ./Downloads/help/includes/shared/equationrenderer/release/dgrid/css/skins/images

48 ./Downloads/help/includes/shared/equationrenderer/release/dgrid/css/skins

112 ./Downloads/help/includes/shared/equationrenderer/release/dgrid/css

116 ./Downloads/help/includes/shared/equationrenderer/release/dgrid

208 ./Downloads/help/includes/shared/equationrenderer/release/images/apps

28 ./Downloads/help/includes/shared/equationrenderer/release/images/executionarrow

20 ./Downloads/help/includes/shared/equationrenderer/release/images/tooltip

32 ./Downloads/help/includes/shared/equationrenderer/release/images/toolstrip/gallery

308 ./Downloads/help/includes/shared/equationrenderer/release/images/toolstrip

28 ./Downloads/help/includes/shared/equationrenderer/release/images/apple-icons

436 ./Downloads/help/includes/shared/equationrenderer/release/images/layout

20 ./Downloads/help/includes/shared/equationrenderer/release/images/widgets/visualfamilies/toolstrip

28 ./Downloads/help/includes/shared/equationrenderer/release/images/widgets/visualfamilies/default

52 ./Downloads/help/includes/shared/equationrenderer/release/images/widgets/visualfamilies

56 ./Downloads/help/includes/shared/equationrenderer/release/images/widgets

116 ./Downloads/help/includes/shared/equationrenderer/release/images/figurefloatingpalette

2000 ./Downloads/help/includes/shared/equationrenderer/release/images

20 ./Downloads/help/includes/shared/equationrenderer/release/dojo/resources/images

48 ./Downloads/help/includes/shared/equationrenderer/release/dojo/resources

344 ./Downloads/help/includes/shared/equationrenderer/release/dojo

524 ./Downloads/help/includes/shared/equationrenderer/release/css

124 ./Downloads/help/includes/shared/equationrenderer/release/equationrenderer/nls

180 ./Downloads/help/includes/shared/equationrenderer/release/equationrenderer

360 ./Downloads/help/includes/shared/equationrenderer/release/fonts

12 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget/Dialog/images

16 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget/Dialog

32 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget/ColorPicker/images

36 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget/ColorPicker

12 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget/Standby/images

16 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget/Standby

72 ./Downloads/help/includes/shared/equationrenderer/release/dojox/widget

40 ./Downloads/help/includes/shared/equationrenderer/release/dojox/grid/resources/images

44 ./Downloads/help/includes/shared/equationrenderer/release/dojox/grid/resources

48 ./Downloads/help/includes/shared/equationrenderer/release/dojox/grid

32 ./Downloads/help/includes/shared/equationrenderer/release/dojox/form/resources/images

36 ./Downloads/help/includes/shared/equationrenderer/release/dojox/form/resources

40 ./Downloads/help/includes/shared/equationrenderer/release/dojox/form

36 ./Downloads/help/includes/shared/equationrenderer/release/dojox/layout/resources/icons

40 ./Downloads/help/includes/shared/equationrenderer/release/dojox/layout/resources

44 ./Downloads/help/includes/shared/equationrenderer/release/dojox/layout

36 ./Downloads/help/includes/shared/equationrenderer/release/dojox/fx/resources

40 ./Downloads/help/includes/shared/equationrenderer/release/dojox/fx

248 ./Downloads/help/includes/shared/equationrenderer/release/dojox

4536 ./Downloads/help/includes/shared/equationrenderer/release

4540 ./Downloads/help/includes/shared/equationrenderer

4756 ./Downloads/help/includes/shared

8184 ./Downloads/help/includes

21792 ./Downloads/help

296 ./Downloads/ui/equationrenderer/release/dojo

8 ./Downloads/ui/equationrenderer/release/css

360 ./Downloads/ui/equationrenderer/release/fonts

676 ./Downloads/ui/equationrenderer/release

680 ./Downloads/ui/equationrenderer

684 ./Downloads/ui

16136 ./Downloads/bin/glnxa64

16140 ./Downloads/bin

2668 ./Downloads/archives/common

9796 ./Downloads/archives/glnxa64

12468 ./Downloads/archives

16 ./Downloads/sys/java/jre/glnxa64/jre/plugin/desktop

20 ./Downloads/sys/java/jre/glnxa64/jre/plugin

252 ./Downloads/sys/java/jre/glnxa64/jre/man/ja\_JP.UTF-8/man1

256 ./Downloads/sys/java/jre/glnxa64/jre/man/ja\_JP.UTF-8

200 ./Downloads/sys/java/jre/glnxa64/jre/man/man1

460 ./Downloads/sys/java/jre/glnxa64/jre/man

148 ./Downloads/sys/java/jre/glnxa64/jre/lib/deploy

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/mime/packages

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/mime

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast/16x16/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast/16x16/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast/16x16

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast/48x48/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast/48x48/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast/48x48

76 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/LowContrast

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast/16x16/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast/16x16/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast/16x16

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast/48x48/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast/48x48/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast/48x48

76 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrast

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor/16x16/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor/16x16/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor/16x16

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor/48x48/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor/48x48/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor/48x48

76 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/hicolor

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse/16x16/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse/16x16/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse/16x16

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse/48x48/mimetypes

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse/48x48/apps

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse/48x48

76 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons/HighContrastInverse

308 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/icons

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop/applications

344 ./Downloads/sys/java/jre/glnxa64/jre/lib/desktop

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/images/cursors

24 ./Downloads/sys/java/jre/glnxa64/jre/lib/images/icons

64 ./Downloads/sys/java/jre/glnxa64/jre/lib/images

1524 ./Downloads/sys/java/jre/glnxa64/jre/lib/ext

136 ./Downloads/sys/java/jre/glnxa64/jre/lib/security

56 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/SystemV

344 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Asia

16 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/America/North\_Dakota

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/America/Kentucky

36 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/America/Indiana

52 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/America/Argentina

548 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/America

44 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Atlantic

172 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Europe

208 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Africa

48 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Indian

152 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Pacific

52 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Australia

120 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Etc

44 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi/Antarctica

1856 ./Downloads/sys/java/jre/glnxa64/jre/lib/zi

548 ./Downloads/sys/java/jre/glnxa64/jre/lib/oblique-fonts

340 ./Downloads/sys/java/jre/glnxa64/jre/lib/cmm

44 ./Downloads/sys/java/jre/glnxa64/jre/lib/jfr

44 ./Downloads/sys/java/jre/glnxa64/jre/lib/amd64/headless

14864 ./Downloads/sys/java/jre/glnxa64/jre/lib/amd64/server

108 ./Downloads/sys/java/jre/glnxa64/jre/lib/amd64/jli

424 ./Downloads/sys/java/jre/glnxa64/jre/lib/amd64/xawt

50216 ./Downloads/sys/java/jre/glnxa64/jre/lib/amd64

32 ./Downloads/sys/java/jre/glnxa64/jre/lib/management

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh\_TW/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh\_TW

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh.GBK/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh.GBK

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/ko/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/ko

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/ja/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/ja

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/it/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/it

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/ko.UTF-8/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/ko.UTF-8

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh\_HK.BIG5HK/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh\_HK.BIG5HK

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/sv/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/sv

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh\_TW.BIG5/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/zh\_TW.BIG5

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/fr/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/fr

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/de/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/de

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/pt\_BR/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/pt\_BR

8 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/es/LC\_MESSAGES

12 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale/es

172 ./Downloads/sys/java/jre/glnxa64/jre/lib/locale

2048 ./Downloads/sys/java/jre/glnxa64/jre/lib/fonts

134364 ./Downloads/sys/java/jre/glnxa64/jre/lib

448 ./Downloads/sys/java/jre/glnxa64/jre/bin

135612 ./Downloads/sys/java/jre/glnxa64/jre

135616 ./Downloads/sys/java/jre/glnxa64

135620 ./Downloads/sys/java/jre

135624 ./Downloads/sys/java

135628 ./Downloads/sys

301128 ./Downloads

664 ./.matlab/R2016b

28 ./.matlab/R2016b\_licenses

696 ./.matlab

358860 .

5.

ls /usr/bin/

[ nslookup

2to3 nstat

2to3-2.7 nsupdate

2to3-3.5 ntfsdecrypt

411toppm numfmt

a11y-profile-manager-indicator nvidia-detector

aa-enabled oakdecode

aconnect obexctl

acpi\_listen objcopy

activity-log-manager objdump

add-apt-repository oclock

addpart od

addr2line on\_ac\_power

alsabat onboard

alsaloop onboard-settings

alsamixer online-accounts-preferences

alsatplg openssl

alsaucm opldecode

amidi orca

amixer orca-dm-wrapper

amuFormat.sh os-prober

animate p11-kit

animate-im6 pacat

anytopnm pacmd

apg pactl

apgbfm padsp

aplay pager

aplaymidi painter

apport-bug palmtopnm

apport-cli pamcut

apport-collect pamdeinterlace

apport-unpack pamdice

appres pamfile

appstreamcli pamoil

apropos pamon

apt pamstack

apt-add-repository pamstretch

apt-cache pamstretch-gen

apt-cdrom paperconf

apt-config paplay

aptdcon parec

apt-extracttemplates parecord

apt-ftparchive parsechangelog

apt-get partx

apt-key passwd

apt-mark paste

apt-sortpkgs pasuspender

apturl patch

apturl-gtk pathchk

ar pax11publish

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deallocvt pnmpad

debconf pnmpaste

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debconf-communicate pnmquant

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dh\_installxmlcatalogs pnmtorle

dh\_pypy pnmtosgi

dh\_python2 pnmtosir

dh\_python3 pnmtotiff

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editor ppmtoacad

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eject ppmtoeyuv

elfedit ppmtogif

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encguess ppmtoilbm

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enhancer ppmtolj

env ppmtomap

envsubst ppmtomitsu

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eps2eps ppmtoneo

eqn ppmtopcx

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evince-thumbnailer ppmtopj

ex ppmtopuzz

expand ppmtorgb3

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explode ppmtotga

expr ppmtouil

eyuvtoppm ppmtowinicon

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faked-sysv ppmtoyuvsplit

faked-tcp ppmtv

fakeroot pr

fakeroot-sysv precat

fakeroot-tcp preconv

fallocate prename

fc-cache preunzip

fc-cat prezip

fc-list prezip-bin

fc-match print

fc-pattern printafm

fc-query printenv

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fc-validate printer-profile

fiascotopnm printf

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file2brl prove

file-rename prtstat

file-roller ps2ascii

filterdiff ps2epsi

find ps2pdf

firefox ps2pdf12

fitstopnm ps2pdf13

fixcvsdiff ps2pdf14

fix-qdf ps2pdfwr

flipdiff ps2ps

flock ps2ps2

fmt ps2txt

fold psfaddtable

font2c psfgettable

fonttosfnt psfstriptable

foo2hbpl2 psfxtable

foo2hbpl2-wrapper psicc

foo2hiperc psidtopgm

foo2hiperc-wrapper pstopnm

foo2hp pstree

foo2hp2600-wrapper pstree.x11

foo2lava pstruct

foo2lava-wrapper ptar

foo2oak ptardiff

foo2oak-wrapper ptargrep

foo2qpdl ptx

foo2qpdl-wrapper pulseaudio

foo2slx pwdx

foo2slx-wrapper py3clean

foo2xqx py3compile

foo2xqx-wrapper py3versions

foo2zjs pybuild

foo2zjs-icc2ps pyclean

foo2zjs-pstops pycompile

foo2zjs-wrapper pydoc

foomatic-rip pydoc2.7

free pydoc3

from pydoc3.5

fstopgm pygettext

ftp pygettext2.7

funzip pygettext3

fwupdate pygettext3.5

fwupdmgr python

g++ python2

g3topbm python2.7

g++-5 python3

gamma4scanimage python3.5

gapplication python3.5m

gatttool python3m

gcalccmd pyversions

gcc qcollectiongenerator

gcc-5 qdbus

gcc-ar qdbuscpp2xml

gcc-ar-5 qdbusviewer

gcc-nm qdbusxml2cpp

gcc-nm-5 qdoc

gcc-ranlib qdoc3

gcc-ranlib-5 qglinfo

gconf-merge-tree qhelpconverter

gconftool qhelpgenerator

gconftool-2 qlalr

gcore qmake

gcov qml

gcov-5 qml1plugindump

gcov-tool qmlbundle

gcov-tool-5 qmleasing

gcr-viewer qmlimportscanner

gdb qmllint

gdb-add-index qmlmin

gdbserver qmlplugindump

gdbtui qmlprofiler

gdbus qmlscene

gdialog qmltestrunner

gedit qmlviewer

gemtopbm qpdf

gemtopnm qpdldecode

gencat qrttoppm

genisoimage qtchooser

geqn qtconfig

GET qtdiag

getconf qtpaths

geteltorito quirks-handler

getent ranlib

getfacl rasttopnm

getkeycodes rawtopgm

getopt rawtoppm

gettext rcc

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gifmaker realpath

giftopnm recode-sr-latin

ginstall-info recountdiff

gio-querymodules rediff

gipddecode remmina

git rename

git-receive-pack rename.ul

git-shell rendercheck

git-upload-archive renice

git-upload-pack reset

gkbd-keyboard-display resize

glib-compile-resources resizecons

glib-compile-schemas resizepart

gnome-calculator rev

gnome-calendar rfcomm

gnome-character-map rgb3toppm

gnome-disk-image-mounter rgrep

gnome-disks rhythmbox

gnome-file-share-properties rhythmbox-client

gnome-font-viewer rletopnm

gnome-help rlogin

gnome-keyring routef

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gnome-keyring-daemon rpcgen

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gnome-power-statistics rstart

gnome-screensaver rstartd

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gnome-session runcon

gnome-session-inhibit run-mailcap

gnome-session-properties run-with-aspell

gnome-session-quit rview

gnome-software sane-find-scanner

gnome-system-log savelog

gnome-system-log-pkexec sbattach

gnome-system-monitor sbigtopgm

gnome-terminal sbkeysync

gnome-terminal.real sbsiglist

gnome-terminal.wrapper sbsign

gnome-text-editor sbvarsign

gnome-thumbnail-font sbverify

gnome-www-browser scanimage

gold scp

gouldtoppm scp-dbus-service

gpasswd screendump

gpg script

gpg2 scriptreplay

gpg-agent sdiff

gpgconf sdptool

gpg-connect-agent seahorse

gpgparsemail see

gpgsplit select-default-iwrap

gpgv select-editor

gpg-zip sensible-browser

gpic sensible-editor

gprof sensible-pager

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grops setfacl

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groups setleds

grub-editenv setlogcons

grub-file setmetamode

grub-fstest setpci

grub-glue-efi setsid

grub-kbdcomp setterm

grub-menulst2cfg setxkbmap

grub-mkfont sftp

grub-mkimage sg

grub-mklayout sgitopnm

grub-mknetdir sha1sum

grub-mkpasswd-pbkdf2 sha224sum

grub-mkrelpath sha256sum

grub-mkrescue sha384sum

grub-mkstandalone sha512sum

grub-mount shasum

grub-ntldr-img shotwell

grub-render-label showconsolefont

grub-script-check showkey

grub-syslinux2cfg showrgb

gs shred

gsbj shuf

gsdj signond

gsdj500 signonpluginprocess

gsettings signon-ui

gsettings-data-convert simple-scan

gsettings-schema-convert sirtopnm

gslj size

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gsnd slabtop

gst-device-monitor-1.0 sldtoppm

gst-discoverer-1.0 slogin

gst-inspect-1.0 slxdecode

gst-install smproxy

gst-launch-1.0 snap

gst-play-1.0 snice

gstreamer-codec-install soelim

gst-typefind-1.0 soffice

gtbl software-properties-gtk

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gtk-builder-tool sotruss

gtk-launch spctoppm

gtk-update-icon-cache spd-conf

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gtk-window-decorator speaker-test

gucharmap speech-dispatcher

gvfs-cat spellintian

gvfs-copy splain

gvfs-info split

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gvfs-mime sprof

gvfs-mkdir sputoppm

gvfs-monitor-dir ssh

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gvfs-open ssh-copy-id

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gvfs-save st4topgm

gvfs-set-attribute start-pulseaudio-x11

gvfs-trash startx

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h2ph stdbuf

h2xs strace

hardening-check stream

hbpldecode stream-im6

hciattach strings

hcitool strip

hd sudo

head sudoedit

HEAD sudoreplay

helpztags sum

hex2hcd symcryptrun

hexdump synclient

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hipstopgm syslinux

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hostnamectl system-config-printer-applet

hp-align systemd-analyze

hp-check systemd-cat

hp-clean systemd-cgls

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hp-config\_usb\_printer systemd-delta

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hp-plugin t1binary

hp-plugin-ubuntu t1disasm

hp-probe t1mac

hp-query t1unmac

hp-scan tabs

hp-setup tac

hp-testpage tail

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ijs\_pxljr time

ilbmtoppm timedatectl

imagetops timeout

im-config tload

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im-launch top

import toshset

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intel\_firmware\_decode ubuntu-bug

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ipcmk unity-webapps-runner

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ipod-read-sysinfo-extended unopkg

ipod-time-sync unshare

iptables-xml unsquashfs

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isdv4-serial-inputattach unzip

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koi8rxterm usbhid-dump

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last utmpdump

lastb uuidgen

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ldd vim.tiny

ld.gold vino-passwd

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libreoffice watchgnupg

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lintian wftopfa

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lsipc x86\_64-linux-gnu-gcov-tool-5

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lslogins x86\_64-linux-gnu-ld

lsof x86\_64-linux-gnu-ld.bfd

lspci x86\_64-linux-gnu-ld.gold

lspgpot x86\_64-linux-gnu-nm

lsusb x86\_64-linux-gnu-objcopy

ltrace x86\_64-linux-gnu-objdump

luit x86\_64-linux-gnu-pkg-config

lupdate x86\_64-linux-gnu-ranlib

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lzdiff xbmtopbm

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lzgrep xclipboard

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lzma xcmsdb

lzmainfo xconsole

lzmore xcursorgen

macptopbm xcutsel

make xdg-desktop-icon

make-first-existing-target xdg-desktop-menu

man xdg-email

mandb xdg-icon-resource

manpath xdg-mime

mapscrn xdg-open

mattrib xdg-screensaver

mawk xdg-settings

mbadblocks xdg-user-dir

mcat xdg-user-dirs-gtk-update

mcd xdg-user-dirs-update

mcheck xdiagnose

mclasserase xditview

mcomp xdpyinfo

mcookie xdriinfo

mcopy xedid

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md5sum.textutils xev

mdatopbm xeyes

mdel xfd

mdeltree xfontsel

mdir xgamma

mdu xgc

mesg xgettext

mformat xhost

mgrtopbm ximtoppm

mimeopen xinit

mimetype xinput

min12xxw xkbbell

minfo xkbcomp

mkfifo xkbevd

mkfontdir xkbprint

mkfontscale xkbvleds

mkisofs xkbwatch

mkmanifest xkeystone

mk\_modmap xkill

mksquashfs xload

mkzftree xlogo

mlabel xlsatoms

mlocate xlsclients

mmcli xlsfonts

mmd xmag

mmount xman

mmove xmessage

moc xmlpatterns

mogrify xmlpatternsvalidator

mogrify-im6 xmodmap

montage xmore

montage-im6 Xorg

mousetweaks xpci

mpartition xpmtoppm

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mren xqxdecode

mscompress xrandr

msexpand xrandr-tool

msgattrib xrdb

msgcat xrefresh

msgcmp xrotate

msgcomm x-session-manager

msgconv xset

msgen xsetmode

msgexec xsetpointer

msgfilter xsetroot

msgfmt xsetwacom

msggrep xsm

msginit xstdcmap

msgmerge xsubpp

msgunfmt xterm

msguniq x-terminal-emulator

mshortname xvidtune

mshowfat xvinfo

mtools xvminitoppm

mtoolstest xwd

mtr xwdtopnm

mtrace xwininfo

mtvtoppm xwud

mtype x-www-browser

mxtar xxd

mzip xz

namei xzcat

nautilus xzcmp

nautilus-autorun-software xzdiff

nautilus-connect-server xzegrep

nautilus-sendto xzfgrep

nawk xzgrep

ncal xzless

neotoppm xzmore

neqn ybmtopbm

netkit-ftp yelp

newgrp yes

ngettext yuvsplittoppm

nice yuvtoppm

nl zdump

nm zeisstopnm

nm-applet zeitgeist-daemon

nmcli zeitgeist-datahub

nm-connection-editor zenity

nm-online zip

nmtui zipcloak

nmtui-connect zipdetails

nmtui-edit zipgrep

nmtui-hostname zipinfo

nohup zipnote

notify-send zipsplit

nproc zjsdecode

nroff zlib-flate

nsenter

cd /usr/bin/

man nroff

NROFF(1) General Commands Manual NROFF(1)

NAME

nroff - emulate nroff command with groff

SYNOPSIS

nroff [-CchipStUvwW] [-dcs] [-Mdir] [-mname] [-nnum] [-olist] [-rcn]

[-Tname] [file ...]

nroff --help

nroff -v | --version

DESCRIPTION

The nroff script emulates the nroff command using groff. Only ascii,

latin1, utf8, and cp1047 are devices accepted by nroff to select the

output encoding emitted by grotty, groff's TTY output device. If nei‐

ther the GROFF\_TYPESETTER environment variable nor the -T command line

option (which overrides the environment variable) specifies a (valid)

device, nroff checks the current locale to select a default output

device. It first tries the locale program, then the environment vari‐

ables LC\_ALL, LC\_CTYPE, and LANG, and finally the LESSCHARSET environ‐

ment variable.

The -h and -c options are equivalent to grotty's options -h (using tabs

Manual page nroff(1) line 1 (press h for help or q to quit)

man nohup

NOHUP(1) User Commands NOHUP(1)

NAME

nohup - run a command immune to hangups, with output to a non-tty

SYNOPSIS

nohup COMMAND [ARG]...

nohup OPTION

DESCRIPTION

Run COMMAND, ignoring hangup signals.

--help display this help and exit

--version

output version information and exit

If standard input is a terminal, redirect it from an unreadable file.

If standard output is a terminal, append output to 'nohup.out' if pos‐

sible, '$HOME/nohup.out' otherwise. If standard error is a terminal,

redirect it to standard output. To save output to FILE, use 'nohup

COMMAND > FILE'.

Manual page nohup(1) line 1 (press h for help or q to quit)

man zipcloak

zipcloak(1) General Commands Manual zipcloak(1)

NAME

zipcloak - encrypt entries in a zipfile

SYNOPSIS

zipcloak [-d] [-b path] [-h] [-v] [-L] zipfile

ARGUMENTS

zipfile Zipfile to encrypt entries in

OPTIONS

-b path

--temp-path path

Use the directory given by path for the temporary zip file.

-d

--decrypt

Decrypt encrypted entries (copy if given wrong password).

-h

--help

Show a short help.

Manual page zipcloak(1) line 1 (press h for help or q to quit)

man yelp

YELP(1) General Commands Manual YELP(1)

NAME

yelp — browse system documentation

USAGE

yelp [file]

The GNOME Help Browser includes detailed documentation for the majority

of applications, utilities and other components, such as the panel or

the Nautilus file manager.

Yelp can display some HTML and XML files when passed on the command-

line, but it's primarily called from applications.

You can also start Yelp by choosing Desktop->Help. This will show the

top-level help system page, listing all GNOME documents conveniently

organized by topic.

OPTIONS

This program accepts all the standard GNOME and GTK+ options, which

follow the usual GNU command line syntax, with long options starting

with two dashes (`-'). To get more information about these options

Manual page yelp(1) line 1 (press h for help or q to quit)

man yes

YES(1) User Commands YES(1)

NAME

yes - output a string repeatedly until killed

SYNOPSIS

yes [STRING]...

yes OPTION

DESCRIPTION

Repeatedly output a line with all specified STRING(s), or 'y'.

--help display this help and exit

--version

output version information and exit

AUTHOR

Written by David MacKenzie.

REPORTING BUGS

GNU coreutils online help: <http://www.gnu.org/software/coreutils/>

Report yes translation bugs to <http://translationproject.org/team/>

Manual page yes(1) line 1 (press h for help or q to quit)

6.

cd /home/dylan/Documents/

mkdir ASEN4519

cd ASEN4519

cat > asen4519test.txt

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(pressed ctrl D to exit)

chmod 755 asen4519test.txt

ls -l

total 4

-rwxr-xr-x 1 dylan dylan 66 Feb 20 09:58 asen4519test.txt

cat asen4519test.txt

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mv asen4519test.txt /home/dylan/Documents/

cd

cd /home/dylan/Documents/

mv asen4519test.txt asen4519.txt

ls

ASEN4057assingment4part2.txt ASEN4519 asen4519.txt MATLAB

rm asen4519.txt

ls

ASEN4057assingment4part2.txt ASEN4519 MATLAB

7.

matlab &

top - 10:51:01 up 1:49, 1 user, load average: 0.33, 0.43, 0.43

Tasks: 174 total, 1 running, 173 sleeping, 0 stopped, 0 zombie

%Cpu(s): 9.7 us, 2.1 sy, 0.3 ni, 87.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st

KiB Mem : 3536840 total, 596780 free, 2079832 used, 860228 buff/cache

KiB Swap: 1668092 total, 1668092 free, 0 used. 1185340 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

2824 dylan 20 0 1298616 249304 73492 S 6.7 7.0 11:29.01 compiz

3153 dylan 20 0 2121552 1.028g 120992 S 3.3 30.5 8:40.56 firefox

1936 root 20 0 532112 189732 57644 S 2.7 5.4 3:45.97 Xorg

5023 dylan 20 0 661448 36984 27908 S 1.3 1.0 0:00.39 gnome-termi+

5041 dylan 20 0 2160480 482996 171232 S 0.7 13.7 0:18.78 MATLAB

2743 dylan 20 0 479424 29324 24336 S 0.3 0.8 0:01.18 ibus-ui-gtk3

2856 dylan 20 0 623364 25380 19384 S 0.3 0.7 0:00.10 indicator-p+

1 root 20 0 119564 5800 4064 S 0.0 0.2 0:00.93 systemd

2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd

3 root 20 0 0 0 0 S 0.0 0.0 0:00.15 ksoftirqd/0

5 root 0 -20 0 0 0 S 0.0 0.0 0:00.00 kworker/0:0H

7 root 20 0 0 0 0 S 0.0 0.0 0:00.24 rcu\_sched

8 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu\_bh

9 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0

10 root rt 0 0 0 0 S 0.0 0.0 0:00.01 watchdog/0

11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs

12 root 0 -20 0 0 0 S 0.0 0.0 0:00.00 netns

Matlab is using 0.7% of the cpu and 13.7% of the memory

When the given line of code is run, matlab uses 25.2% of the CPU, 74.3% of the memory, and took 7.37s to run.

Nice -15 matlab &

Ps -l

F S UID PID PPID C PRI NI ADDR SZ WCHAN TTY TIME CMD

0 S 1000 3906 3900 0 80 0 - 7415 wait pts/4 00:00:00 bash

4 S 1000 5363 5362 10 65 -15 - 1128882 futex\_ pts/4 00:00:29 MATLAB

0 R 1000 5581 3906 0 80 0 - 8996 - pts/4 00:00:00 ps

It is verified.

Time to run with nice is 8.9 seconds. This doesn’t makes sense because we increased the priority of running this program.

8.

The path to run matlab is /usr/local/MATLAB/R2016b/bin/matlab. Although, MATLAB can be ran by simply typing matlab into the terminal this is because the terminal treats the word “matlab” as a symbolic link to the link above.

9.

The bash shell looks for programs in bins to run as commands.

echo $path

/home/dylan/bin:/home/dylan/.local/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin

The places above is where this information is stored.

They can be changed.

10

cat ls /bin/ /usr/bin/ >/home/dylan/Documents/usefulprograms.txt

11.

echo $TERM

xterm-256color

/usr/share/terminfo

12.

sudo update-alternatives --config editor

[sudo] password for dylan:

There are 3 choices for the alternative editor (providing /usr/bin/editor).

Selection Path Priority Status

------------------------------------------------------------

\* 0 /bin/nano 40 auto mode

1 /bin/ed -100 manual mode

2 /bin/nano 40 manual mode

3 /usr/bin/vim.tiny 10 manual mode

Press <enter> to keep the current choice[\*], or type selection number:

2

This selection would not be at 0, if the editor had been chosen. I chose option 2.