Introdução Computação

Comandos Linux

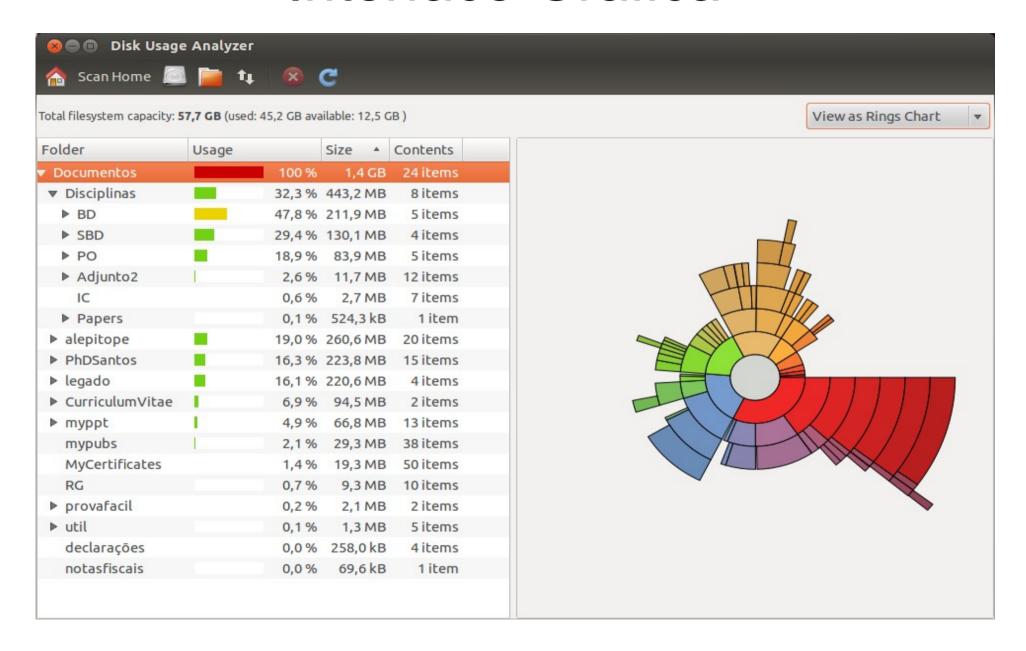
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Interface Gráfica

- Linux não é mais sinônimo de difícil;
- Interface baseadas na versão Debian são as mais "user friendly";
- Grande variedade de software gratuito para fins científicos:
 - R e scilab competem com o caríssimo MatLab;

Interface Gráfica



Interface Gráfica

 Entretanto quando é exigida eficiência no processamento uma interface gráfica não ajuda, pelo contrário: inviabiliza

O terminal ...

 ... é o melhor amigo de quem lida com computação intensiva.

```
😰 🖨 📵 anderson@desktopufu: Dropbox
drwxrwxr-x 6 anderson anderson 224 Abr 22 11:54 Disciplinas
drwxrwxr-x 2 anderson anderson 320 Abr 22 11:53 IC
-rw-rw-r-- 1 anderson anderson 127K Abr 7 11:39 Introdução.pdf
drwxrwxr-x 4 anderson anderson 144 Abr 29 10:40 Papers
drwxrwxr-x 4 anderson anderson 96 Abr 25 18:38 prog
drwxrwxr-x 2 anderson anderson 208 Abr 29 18:44 vcard
anderson@desktopufu:Dropbox$
```

Comando man

MAN(1) Manual pager utils MAN(1)NAME man - an interface to the on-line reference manuals **SYNOPSIS** man [-C file] [-d] [-D] [--warnings[=warnings]] [-R encoding] [-L locale] [-m system[,...] [-M path] [-S list] [-e extension] [-i|-l] [--regex|--wildcard] [-names-only] [-a] [-u] [-no-subpages] [-P pager] [-r prompt] [-7] [-E encoding] [--no-hyphenation] [--no-justification] [-p string] [-t] [-T[device]] [-H[browser]] [-X[dpi]] [-Z] [[section] page ...] ... man -k [apropos options] regexp ... man -K [-w|-W] [-S list] [-i|-l] [--regex] [section] term ... man -f [whatis options] page ... man -I [-C file] [-d] [-D] [--warnings[=warnings]] [-R encoding] [-L locale] [-P pager] [-r prompt] [-7] [-E encoding] [-p string] [-t] [-T[device]] [-H[browser]] [-X[dpi]] [-Z] file ... man -w|-W [-C file] [-d] [-D] page ... man -c [-C file] [-d] [-D] page ... man [-hV]

Comando pwd

PWD(1) **User Commands** PWD(1) NAME pwd - print name of current/working directory **SYNOPSIS** pwd [OPTION]... **DESCRIPTION** Print the full filename of the current working directory. -L, --logical use PWD from environment, even if it contains symlinks -P, --physical avoid all symlinks --help display this help and exit --version

Comando Is

LS(1) User Commands LS(1)

NAME

Is - list directory contents

SYNOPSIS

Is [OPTION]... [FILE]...

DESCRIPTION

List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all do not ignore entries starting with .

-A, --almost-all do not list implied . and ..

Comando cd

- cd = change directory
- cd ..
- cd ../
- cd ../../
- cd /
- cd ~
- cd sample
- cd sample/protein

Comando clear

clear(1) clear(1)

NAME

clear - clear the terminal screen

SYNOPSIS

clear

DESCRIPTION

clear clears your screen if this is possible. It looks in the environment for the terminal type and then in the terminfo database to figure out how to clear the screen.

clear ignores any command-line parameters that may be present.

SEE ALSO

tput(1), terminfo(5)

This describes neurses version 5.9 (patch 20110404).

Comando alias

- Permite criar outros comandos por meio de uma parametrização específica de um comando ou o acionamento de vários comandos
- alias It='ls -lt'
- alias tudo='ls -al'
- alias cls='clear;ls -lt'

Comando ping

PING(8) System Manager's Manual: iputils

PING(8)

NAME

ping, ping6 - send ICMP ECHO_REQUEST to network hosts

SYNOPSIS

ping [-LRUbdfnqrvVaAB] [-c count] [-m mark] [-i interval] [-l preload] [-p pattern] [-s packetsize] [-t ttl] [-w deadline] [-F flowlabel] [-l interface] [-M hint] [-N nioption] [-Q tos] [-S sndbuf] [-T timestamp option] [-W timeout] [hop ...] destination

DESCRIPTION

ping uses the ICMP protocol's mandatory ECHO_REQUEST datagram to elicit an ICMP ECHO_RESPONSE from a host or gateway. ECHO_REQUEST datagrams (``pings") have an IP and ICMP header, followed by a struct timeval and then an arbitrary number of ``pad" bytes used to fill out the packet.

ping6 can also send Node Information Queries (RFC4620).

OPTIONS

-a Audible ping.

Comando wget

WGET(1) GNU Wget WGET(1)

NAME

Wget - The non-interactive network downloader.

SYNOPSIS

wget [option]... [URL]...

DESCRIPTION

GNU Wget is a free utility for non-interactive download of files from the Web. It supports HTTP, HTTPS, and FTP protocols, as well as retrieval through HTTP proxies.

Wget is non-interactive, meaning that it can work in the background, while the user is not logged on. This allows you to start a retrieval and disconnect from the system, letting Wget finish the work. By contrast, most of the Web browsers require constant user's presence, which can be a great hindrance when transferring a lot of data.

Wget can follow links in HTML, XHTML, and CSS pages, to create local versions of remote web sites, fully recreating the directory structure of the original site. This is sometimes referred to as "recursive downloading." While doing that, Wget respects the Robot Exclusion

Comando tar

TAR(1)

TAR(1) BSD General Commands Manual

NAME

tar — The GNU version of the tar archiving utility

SYNOPSIS

```
tar [-] A --catenate --concatenate | c --create | d --diff --compare |
--delete | r --append | t --list | --test-label | u --update | x
--extract --get [options] [pathname ...]
```

DESCRIPTION

Tar stores and extracts files from a tape or disk archive.

The first argument to tar should be a function; either one of the letters Acdrtux, or one of the long function names. A function letter need not be prefixed with ``-", and may be combined with other single-letter options. A long function name must be prefixed with --. Some options take a parameter; with the single-letter form these must be given as separate arguments. With the long form, they may be given by appending =value to the option.

Comando cat

CAT(1) CAT(1) **User Commands** NAME cat - concatenate files and print on the standard output **SYNOPSIS** cat [OPTION]... [FILE]... **DESCRIPTION** Concatenate FILE(s), or standard input, to standard output. -A, --show-all equivalent to -vET -b, --number-nonblank number nonempty output lines, overrides -n equivalent to -vE -E, --show-ends display \$ at end of each line -n, --number

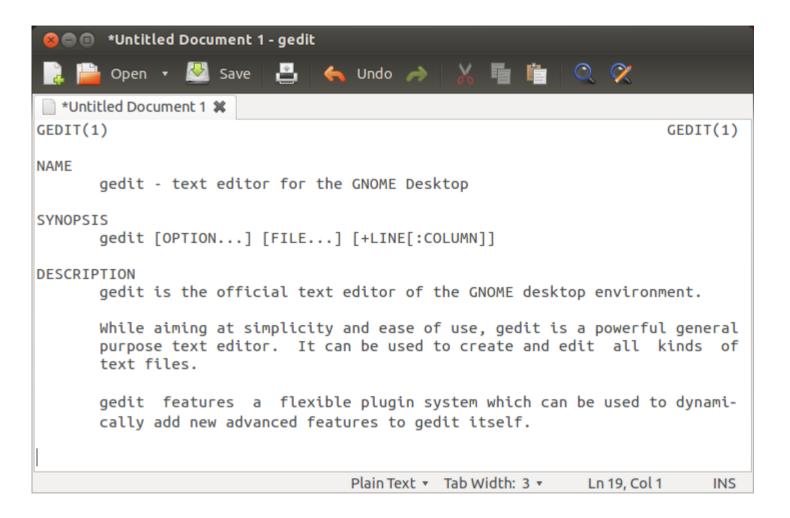
Comandos more ou less

```
LESS(1)
                                                 LESS(1)
NAME
    less - opposite of more
SYNOPSIS
    less -?
    less --help
    less -V
    less --version
    less [-[+]aABcCdeEfFgGilJKLmMnNgQrRsSuUVwWX~]
       [-b space] [-h lines] [-j line] [-k keyfile]
       [-{oO} logfile] [-p pattern] [-P prompt] [-t tag]
       [-T tagsfile] [-x tab,...] [-y lines] [-[z] lines]
       [-# shift] [+[+]cmd] [--] [filename]...
    (See the OPTIONS section for alternate option syntax with long option
    names.)
```

DESCRIPTION

Less is a program similar to more (1), but which allows backward movement in the file as well as forward movement. Also, less does not have to read the entire input file before starting, so with large input files it starts up faster than text editors like vi (1).

Comando gedit



Comandos head e tail

HEAD(1) User Commands HEAD(1)

NAME

head - output the first part of files

SYNOPSIS

head [OPTION]... [FILE]...

DESCRIPTION

Print the first 10 lines of each FILE to standard output. With more than one FILE, precede each with a header giving the file name. With no FILE, or when FILE is -, read standard input.

Mandatory arguments to long options are mandatory for short options too.

- -c, --bytes=[-]K
 print the first K bytes of each file; with the leading `-',
 print all but the last K bytes of each file
- -n, --lines=[-]K
 print the first K lines instead of the first 10; with the leading `-', print all but the last K lines of each file

Comando cp

User Commands CP(1) CP(1) NAME cp - copy files and directories **SYNOPSIS** cp [OPTION]... [-T] SOURCE DEST cp [OPTION]... SOURCE... DIRECTORY cp [OPTION]... -t DIRECTORY SOURCE... **DESCRIPTION** Copy SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY. Mandatory arguments to long options are mandatory for short options too. -a, --archive same as -dR --preserve=all --attributes-only don't copy the file data, just the attributes

Comando mv

MV(1) MV(1) **User Commands** NAME mv - move (rename) files **SYNOPSIS** mv [OPTION]... [-T] SOURCE DEST mv [OPTION]... SOURCE... DIRECTORY mv [OPTION]... -t DIRECTORY SOURCE... **DESCRIPTION** Rename SOURCE to DEST, or move SOURCE(s) to DIRECTORY. Mandatory arguments to long options are mandatory for short options too. --backup[=CONTROL] make a backup of each existing destination file like --backup but does not accept an argument -f. --force do not prompt before overwriting

Comando rm

RM(1) User Commands RM(1)

NAME

rm - remove files or directories

SYNOPSIS

rm [OPTION]... FILE...

DESCRIPTION

This manual page documents the GNU version of rm. rm removes each specified file. By default, it does not remove directories.

If the -I or --interactive=once option is given, and there are more than three files or the -r, -R, or --recursive are given, then rm prompts the user for whether to proceed with the entire operation. If the response is not affirmative, the entire command is aborted.

Otherwise, if a file is unwritable, standard input is a terminal, and the -f or --force option is not given, or the -i or --interactive=always option is given, rm prompts the user for whether to remove the file. If the response is not affirmative, the file is skipped.

Comandos mkdir e rmdir

RMDIR(1) RMDIR(1) **User Commands** NAME rmdir - remove empty directories **SYNOPSIS** rmdir [OPTION]... DIRECTORY... **DESCRIPTION** Remove the DIRECTORY(ies), if they are empty. --ignore-fail-on-non-empty ignore each failure that is solely because a directory is non-empty -p, --parents remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b/c' is similar to `rmdir a/b/c a/b a' -v, --verbose output a diagnostic for every directory processed

Comando which

WHICH(1) WHICH(1)

NAME

which - locate a command

SYNOPSIS

which [-a] filename ...

DESCRIPTION

which returns the pathnames of the files (or links) which would be executed in the current environment, had its arguments been given as commands in a strictly POSIX-conformant shell. It does this by searching the PATH for executable files matching the names of the arguments. It does not follow symbolic links.

OPTIONS

-a print all matching pathnames of each argument

EXIT STATUS

- 0 if all specified commands are found and executable
- 1 if one or more specified commands is nonexistent or not executable

Comando *history*

HISTORY(3)

HISTORY(3)

NAME

history - GNU History Library

COPYRIGHT

The GNU History Library is Copyright (C) 1989-2011 by the Free Software Foundation, Inc.

DESCRIPTION

Many programs read input from the user a line at a time. The GNU History library is able to keep track of those lines, associate arbitrary data with each line, and utilize information from previous lines in composing new ones.

HISTORY EXPANSION

The history library supports a history expansion feature that is identical to the history expansion in bash. This section describes what syntax features are available.

History expansions introduce words from the history list into the input stream, making it easy to repeat commands, insert the arguments to a previous command into the current input line, or fix errors in previous

Comando exit

EXIT(3) Linux Programmer's Manual EXIT(3)

NAME

exit - cause normal process termination

SYNOPSIS

#include <stdlib.h>

void exit(int status);

DESCRIPTION

The exit() function causes normal process termination and the value of status & 0377 is returned to the parent (see wait(2)).

All functions registered with atexit(3) and on_exit(3) are called, in the reverse order of their registration. (It is possible for one of these functions to use atexit(3) or on_exit(3) to register an additional function to be executed during exit processing; the new registration is added to the front of the list of functions that remain to be called.) If one of these functions does not return (e.g., it calls _exit(2), or kills itself with a signal), then none of the remaining functions is called, and further exit processing (in particular, flushing of stdio(3) streams) is abandoned.