% cat head

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\* Лабораторная работа No20 \*

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\* Стандартные утилиты Unix \*

\* для обработки файлов \*

\* \*

\* Работу выполнил: \*

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\* Группа: 80-102Б \*

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% cat > f1.txt

123

Hello

% cat > f2.txt

abc

Hello

% cmp f1.txt f2.txt

f1.txt f2.txt differ: char 1, line 1

% cmp f1.txt f2.txt -b

f1.txt f2.txt differ: char 1, line 1

% comm f1.txt f2.txt

123

Hello

abc

Hello

% w f1.txt f2.txt

9:41PM up 3:44, 1 user, load averages: 0.60, 0.41, 0.36

USER TTY FROM LOGIN@ IDLE WHAT

% dd if=f1.txt of=f3.txt

0+1 records in

0+1 records out

10 bytes transferred in 0.000071 secs (140748 bytes/sec)

% cat f3.txt

123

Hello

% diff f1.txt f2.txt

1c1

< 123

---

> abc

% diff f1.txt f3.txt -q

% grep He f1.txt

Hello

% grep 'He$' f1.txt

% join f1.txt f2.txt

% cat > f4.txt

a

c

b

a

% sorf f4.txt

zsh: command not found: sorf

% sort f4.txt

a

a

b

c

% tail f1.txt

123

Hello

% tee f5.txt

123

3

% cat f5.txt

123

% tr 'abc' 'qwe'

abr

qwr

% uniq f4.txt

a

c

b

a

% od f1.txt

0000000 031061 005063 062510 066154 005157

0000012

% sum f1.txt

26867 1 f1.txt

% cut -c 1-2 f1.txt

12

He

% tar -cf archive f1.txt f2.txt

% gzip f4.txt

% gzip -d f4.txt.gz

% awk 'length($0) > 3' f1.txt

Hello

% sed = f4.txt | sed 'N;s/\n/\. /'

1. a

2. c

3. b

4. a

% bzip2 f3.txt

% bzip2 -d f3.txt.bz2

% head -n 2 f4.txt

a

c

% iconv -f ASCII -t utf-8 f3.txt

123

Hello

% diff -u f3.txt f4.txt > difference.diff

% patch < difference.diff

Hmm... Looks like a unified diff to me...

The text leading up to this was:

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|--- f3.txt 2016-02-24 21:43:45.000000000 +0000

|+++ f4.txt 2016-02-24 21:45:10.860252000 +0000

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Patching file f3.txt using Plan A...

Hunk #1 succeeded at 1.

done

% md5 f3.txt

MD5 (f3.txt) = 692a4b6d2d13d25cf7c4d8f1fd58c7a9

% du

56 ./.config/xfce4/xfconf/xfce-perchannel-xml

60 ./.config/xfce4/xfconf

4 ./.config/xfce4/xfwm4

20 ./.config/xfce4/desktop

8 ./.config/xfce4/panel/launcher-9

8 ./.config/xfce4/panel/launcher-10

8 ./.config/xfce4/panel/launcher-11

8 ./.config/xfce4/panel/launcher-12

36 ./.config/xfce4/panel

8 ./.config/xfce4/terminal

132 ./.config/xfce4

16 ./.config/Thunar

8 ./.config/dconf

12 ./.config/Mousepad

8 ./.config/mc

180 ./.config

8 ./.cache/sessions/thumbs-:0

12 ./.cache/sessions

44 ./.cache/gstreamer-1.0

4 ./.cache/dconf

8 ./.cache/mc

72 ./.cache

8 ./.local/share/mc

16 ./.local/share

20 ./.local

4 ./.gvfs

4 ./Desktop

468 .

% file f3.txt

f3.txt: ASCII text

% touch empty

% touch -t 200701310846.26 empty

% find . -name 'f\*'

./f1.txt

./f2.txt

./f3.txt

./f4.txt

./f5.txt

./f3.txt.orig

% find . -mtime +600 -print

./empty

% echo A B C | xargs echo

A B C

% df

Filesystem 1K-blocks Used Avail Capacity Mounted on

/dev/gpt/rootfs 20307196 3531892 15150732 19% /

devfs 1 1 0 100% /dev

% paste f1.txt f2.txt

123 abc

Hello Hello

% cat lab11\_var43.c

#include <stdio.h>

int main(void) { int input, wordCount, charCount, state;wordCount = charCount = state = 0;

while((input = getchar()) != EOF) { if(input == ' ' || input == '\n' || input == '\t') { state = 0; }else {

if(state == 0) { state = 1;wordCount++;}charCount++;}}

printf("%s %.2f\n","The average length of a word is", (float)charCount/(float)wordCount);

return 0;

}

% indent lab11\_var43.c

% cat lab11\_var43.c

#include <stdio.h>

int

main(void)

{

int input , wordCount, charCount, state;

wordCount = charCount = state = 0;

while ((input = getchar()) != EOF) {

if (input == ' ' || input == '\n' || input == '\t') {

state = 0;

} else {

if (state == 0) {

state = 1;

wordCount++;

} charCount++;

}

}

printf("%s %.2f\n", "The average length of a word is", (float)charCount / (float)wordCount);

return 0;

}

% split -l 2 f4.txt

% mktemp

/tmp/tmp.YdjhhkRO

% mktemp -d

/tmp/tmp.lQn380dg

% file -b lab11\_var43.c

C source, ASCII text

% md5 -s Hello

MD5 ("Hello") = 8b1a9953c4611296a827abf8c47804d7

% df -h

Filesystem Size Used Avail Capacity Mounted on

/dev/gpt/rootfs 19G 3.4G 14G 19% /

devfs 1.0K 1.0K 0B 100% /dev

% df -T

Filesystem Type 1K-blocks Used Avail Capacity Mounted on

/dev/gpt/rootfs ufs 20307196 3532032 15150592 19% /

devfs devfs 1 1 0 100% /dev

% du -m

1 ./.config/xfce4/xfconf/xfce-perchannel-xml

1 ./.config/xfce4/xfconf

1 ./.config/xfce4/xfwm4

1 ./.config/xfce4/desktop

1 ./.config/xfce4/panel/launcher-9

1 ./.config/xfce4/panel/launcher-10

1 ./.config/xfce4/panel/launcher-11

1 ./.config/xfce4/panel/launcher-12

1 ./.config/xfce4/panel

1 ./.config/xfce4/terminal

1 ./.config/xfce4

1 ./.config/Thunar

1 ./.config/dconf

1 ./.config/Mousepad

1 ./.config/mc

1 ./.config

1 ./.cache/sessions/thumbs-:0

1 ./.cache/sessions

1 ./.cache/gstreamer-1.0

1 ./.cache/dconf

1 ./.cache/mc

1 ./.cache

1 ./.local/share/mc

1 ./.local/share

1 ./.local

1 ./.gvfs

1 ./Desktop

1 .

% touch -d '2007-01-31 08:46:26' empty

% md5 \*.txt

MD5 (f1.txt) = eb5da0865526f3b291fec0bcc3c7b131

MD5 (f2.txt) = 89d4cb5a7000f898ad2a960c12626ae3

MD5 (f3.txt) = 692a4b6d2d13d25cf7c4d8f1fd58c7a9

MD5 (f4.txt) = 692a4b6d2d13d25cf7c4d8f1fd58c7a9

MD5 (f5.txt) = ba1f2511fc30423bdbb183fe33f3dd0f