

## 0.1 Задание 1

### 0.1.1 Задание 1.1

Средства просмотра системной информации

Цель работы: Изучение команд для получения информации о системе.

history

nano

```
history - GNU History Library
```

cd

```
nano - Nano's ANOther editor, an enhanced free Pico clone
```

cp

mv

rm

```
mv - move (rename) files
```

df

```
rm - remove files or directories
```

du

```
df - report file system disk space usage
```

free

top

ls

mkdir

pwd

**du - estimate file space usage**

**free - Display amount of free and used memory in the system**

**top - display Linux processes**

**ls - list directory contents**

**pwd - print name of current/working directory**

**clear - clear the terminal screen**

clear  
exit  
uname

vmstat

**uname - print system information**

man

ifconfig

**man - an interface to the on-line reference manuals**

lsmod

date

```
lsmod - Show the status of modules in the Linux Kernel
```

```
date - print or set the system date and time
```

uptime  
Задание 1.1(a)

```
uptime - Tell how long the system has been running.
```

Показать нагруженность системы.

Была выбрана команда `htop`, поскольку она выводит большой перечень процессов и обладает элементами выборочной сортировки.

```
File Edit View Search Terminal Help
keks@keks101:~$ htop
```

```
File Edit View Search Terminal Help
1  [|||||] 8.2% Tasks: 105, 407 thr: 2 running
2  [|||||] 5.8% Load average: 0.20 0.28 0.34
Mem [|||||] 1.69G/7.53G Uptime: 01:23:51
Swap [|||||] 0K/695M

PID USER      PRI  NI  VIRT  RES  SHR  S CPU% MEM%   TIME+  Command
1367 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1370 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1371 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1372 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1376 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1380 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1402 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1403 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1404 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1407 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.05 /usr/lib/firefox/firefox -new-window
1438 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.02 /usr/lib/firefox/firefox -new-window
1444 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.01 /usr/lib/firefox/firefox -new-window
1463 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.06 /usr/lib/firefox/firefox -new-window
1551 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.02 /usr/lib/firefox/firefox -new-window
1724 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1890 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
2344 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.01 /usr/lib/firefox/firefox -new-window
2457 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
2472 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
2633 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
2663 keks      20   0 2854M 313M 148M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -new-window
1378 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1379 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1389 keks      21   1 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1395 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1396 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1399 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1400 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1401 keks      20   0 2088M 248M 103M S  0.0  3.2 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 1 -IsForBrowser -intPrefs 5:50:0
1527 keks      20   0 2415M 315M 143M S  0.0  4.1 0:00.00 /usr/lib/firefox/firefox -contentproc -childID 4 -IsForBrowser -intPrefs 5:50:0
F1Quit F2Setup F3ToggleFullscreen F4ToggleSuspend F5ToggleF7Lock F6ToggleF9Lock F10Exit
```

Задание 1.1(b)

Отобразить объем занятой оперативной памяти в килобайтах (Кб).

Была выбрана команда free соответственно с ключом kilo.

```
File Edit View Search Terminal Help
keks@keks101:~$ free --kilo
```

```
File Edit View Search Terminal Help
keks@keks101:~$ free --kilo
total      used        free      shared  buff/cache   available
Mem:      8086872    1671372    5062488     397615     1353011     6143295
Swap:      728408         0         728408
```