

Презентация к восьмой лабораторной работе

Операционные системы

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Информация

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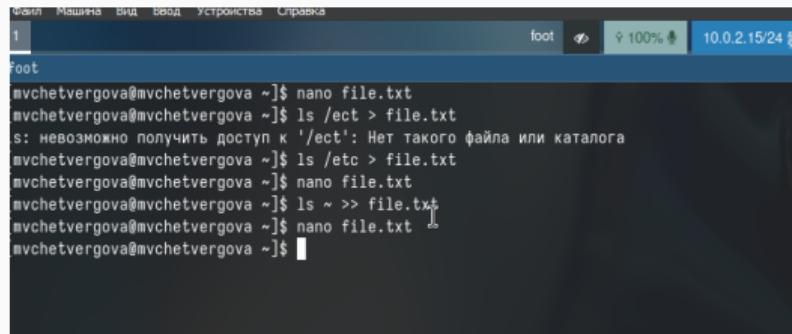
Цель и задачи работы

Ознакомление с инструментами поиска файлов и фильтрации текстовых данных. Приобретение практических навыков: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.

Выполнение лабораторной работы

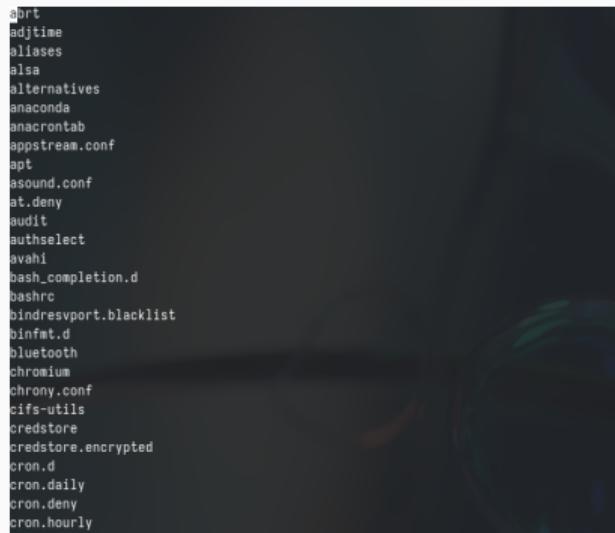
1. Осуществите вход в систему, используя соответствующее имя пользователя.
2. Запишите в файл file.txt названия файлов, содержащихся в каталоге /etc.
Допишите в этот же файл названия файлов, содержащихся в вашем домашнем каталоге.

Выполнение лабораторной работы



Foot 1 10.0.2.15/24

```
foot
mvchetvergova@mvchetvergova ~]$ nano file.txt
mvchetvergova@mvchetvergova ~]$ ls /ect > file.txt
ls: невозможно получить доступ к '/ect': Нет такого файла или каталога
mvchetvergova@mvchetvergova ~]$ ls /etc > file.txt
mvchetvergova@mvchetvergova ~]$ nano file.txt
mvchetvergova@mvchetvergova ~]$ ls ~ >> file.txt
mvchetvergova@mvchetvergova ~]$ nano file.txt
mvchetvergova@mvchetvergova ~]$
```



```
abrt
adjtime
aliases
alsa
alternatives
anaconda
anacrontab
appstream.conf
apt
asound.conf
at.deny
audit
authselect
avahi
bash_completion.d
bashrc
bindresvport.blacklist
binfmt.d
bluetooth
chromium
chrony.conf
cifs-utils
credstore
credstore.encrypted
cron.d
cron.daily
cron.deny
cron.hourly
```

Выполнение лабораторной работы

3. Выведите имена всех файлов из file.txt, имеющих расширение .conf, после чего запишите их в новый текстовой файл conf.txt.

```
root
[mvchetvergova@mvchetvergova ~]$ grep "\.conf" file.txt
appstream.conf
asound.conf
chrony.conf
dnsmasq.conf
dracut.conf
dracut.conf.d
fprintd.conf
fuse.conf
host.conf
idmapd.conf
ipsec.conf
kdump.conf
krb5.conf
krb5.conf.d
ld.so.conf
ld.so.conf.d
libaudit.conf
libuser.conf
locale.conf
logrotate.conf
makewhitefile.conf.sample
man_db.conf
make2fs.conf
mtools.conf
ndctl.conf.d
nfs.conf
nfsmount.conf
nilfs_cleaner.conf
nsswitch.conf
opensc.conf
opensc-x86_64.conf
passwdqq.conf
reader.conf.d
request-key.conf
resolv.conf
rsyncd.conf
rsyslog.conf
ssdm.conf
```

Выполнение лабораторной работы

```
sudo.conf
sddm.conf.d
sestatus.conf
sudo.conf
sysctl.conf
Trolltech.conf
updatedb.conf
usb_modeswitch.conf
vconsole.conf
whois.conf
xattr.conf
[mvchetvergova@mvchetvergova ~]$ grep "\.conf" file.txt > conf.txt
[mvchetvergova@mvchetvergova ~]$
```

Выполнение лабораторной работы

4. Определите, какие файлы в вашем домашнем каталоге имеют имена, начинавшиеся с символа с? Предложите несколько вариантов, как это сделать.

```
whois.conf
xattr.conf
[mvchetvergova@mvchetvergova ~]$ grep "\.conf" file.txt > conf.txt
[mvchetvergova@mvchetvergova ~]$
[mvchetvergova@mvchetvergova ~]$
[mvchetvergova@mvchetvergova ~]$
[mvchetvergova@mvchetvergova ~]$
[mvchetvergova@mvchetvergova ~]$
[mvchetvergova@mvchetvergova ~]$
mvchetvergova@mvchetvergova ~$ find ~ /etc -name "c**" -print
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/crashes
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/compatibility.ini
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/cookies.sqlite
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/cert9.db
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/permanent/chrome
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+www.youtube.com/cache
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+www.youtube.com/cache/cac
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+www.youtube.com/cache/cac
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+web.telegram.org/cache
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+web.telegram.org/cache/ca
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+www.youtube.com/partition
raproject.org29/cache
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+www.youtube.com"partition
raproject.org29/cache/caches.sqlite
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+www.youtube.com"partition
raproject.org29/cache/caches.sqlite-wal
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/content-prefs.sqlite
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/cookies.sqlite-wal
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/containers.json
/home/mvchetvergova/.cache/fontconfig/c4be25795487c6cbfb6f672134c1de66d5-le64.cache-8
/home/mvchetvergova/.cache/fontconfig/cd93a7c1ba59c5398bfa30047da1ff86f-le64.cache-8
```

Выполнение лабораторной работы

```
/etc/chromium  
/etc/chromium/native-messaging-hosts/com.github.browserpass.native.json  
[mvchetvergova@mvchetvergova ~]$ ls | grep "c*"  
abc1  
australia  
cd  
chezmoi.toml  
conf.txt  
feathers  
file.txt  
git-extended  
io  
LICENSE  
may  
monthly  
my_os  
os-intro  
play  
reports  
ski.plasses  
u-x  
work  
Видео  
Документы  
Загрузки  
Изображения  
Музыка  
ск
```

Выполнение лабораторной работы

5. Выведите на экран (по странично) имена файлов из каталога /etc, начинающиеся с символа h.

```
mvchetvergova@mvchetvergova ~]$  
mvchetvergova@mvchetvergova ~]$ mvchetvergova@mvchetvergova ~]$ find ~ -name "h*" -print  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/crashes  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/compatibility.ini  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/cookies.sqlite  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/cert9.db  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/permanent/chrome  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://www.youtube.com/ca  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://www.youtube.com/ca  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://www.youtube.com/ca  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://web.telegram.org/c  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://web.telegram.org/c  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://web.telegram.org/c  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://web.telegram.org/c  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://www.youtube.com^pa  
aproject.org#29/cache  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://www.youtube.com^pa  
aproject.org#29/cache/caches.sqlite  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/storage/default/https://www.youtube.com^pa  
aproject.org#29/cache/caches.sqlite  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/content-prefs.sqlite  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/cookies.sqlite-wal  
home/mvchetvergova/.mozilla/firefox/3c0myzmx.default-release/containers.json  
home/mvchetvergova/.cache/fontconfig/c4be257954870c0bf6972134c1de66d5-le64.cache-8  
home/mvchetvergova/.cache/fontconfig/cd3a7c10a59c5398fbfa30847d1af86f-le64.cache-8  
home/mvchetvergova/.cache/fontconfig/50efc045d3bb64cc7bf686518957ef8-le64.cache-8  
home/mvchetvergova/.cache/fontconfig/c793081652af0a082fa4b8a7ceb4a8c7-le64.cache-8  
home/mvchetvergova/.cache/fontconfig/ced969af21764897befad4fc7aa6451-le64.cache-8  
home/mvchetvergova/.cache/mozilla/firefox/3c0myzmx.default-release/cache2  
home/mvchetvergova/.cache/mozilla/firefox/3c0myzmx.default-release/safebrowsing/content-track-digest256  
home/mvchetvergova/.cache/mozilla/firefox/3c0myzmx.default-release/safebrowsing/content-track-digest256  
home/mvchetvergova/.cache/mozilla/firefox/3c0myzmx.default-release/safebrowsing/content-email-track-dig  
home/mvchetvergova/.cache/mozilla/firefox/3c0myzmx.default-release/safebrowsing/content-email-track-dig  
home/mvchetvergova/.cache/thumbnails/normal/cb172e305a7ce155abaa67bc413a3c8.png  
home/mvchetvergova/.cache/thumbnails/normal/cb172e305a7ce155abaa67bc413a3c8.png  
home/mvchetvergova/.cache/thumbnails/normal/c635b68afa23f0212274078d87dc633.png  
home/mvchetvergova/.cache/thumbnails/normal/c2d0ff830cd4ea730457665ff5fd2c03.png  
home/mvchetvergova/.cache/thumbnails/normal/c03b291ad24aff71a6ebef0d9889b63.png
```

Выполнение лабораторной работы

```
/etc/chromium
/etc/chromium/native-messaging-hosts/com.github.browserpass.native.json
[mvchetvergova@mvchetvergova ~]$ ls | grep "c*"
a[el]c
australia
cd
chezmoi.toml
conf.txt
feathers
file.txt
git-extended
io
LICENSE
may
monthly
my_os
os-integer
```

Выполнение лабораторной работы

6. Запустите в фоновом режиме процесс, который будет записывать в файл `~/logfile` файлы, имена которых начинаются с `log`.

```
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++www.goog
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++esystem.i
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++id.rudn.t
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++github.co
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++fedoraproj
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++www.youtu
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++www.recon
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++www.googl
dnet.com%29
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++web.telegram
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/storage/default/https+++www.youtu
raproject.org%29
/home/mvchetvergova/.mozilla/firefox/3c6myzmx.default-release/handlers.json
/home/mvchetvergova/.cache/hugo_cache
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/cache/vcs/bf777e9c93e1a
49f67fc14a20211b/hooks
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/cache/vcs/bf777e9c93e1a
49f67fc14a20211b/refs/heads
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/cache/download/github.co
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/archetypes/home.md
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/assets/js/_vendor/headroom.min.js
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/assets/scss-wowchemy/helpers
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/data/hugoblog.toml
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/hugo.yaml
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/i18n/he.yaml
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
trap/v5@v5.9.7/i18n/hu.yaml
/home/mvchetvergova/.cache/hugo_cache/modules/filecache/modules/pkg/mod/github.com/!hugo!blox/r
```

Выполнение лабораторной работы

7. Удалите файл ~ logfile.

```
/etc/chromium/native-messaging-hosts/com.github.browserpass.native.json
[mvchetvergova@mvchetvergova ~]$ find ~ -name "log*" -print >> logfile &
[1] 2022
[mvchetvergova@mvchetvergova ~]$ find: неизвестный предикат «-name»
[mvchetvergova@mvchetvergova ~]$ find ~ -name "log*" -print >> logfile &
[2] 2116
[1]  Выход 1          find ~ -name "log*" -print >> logfile
[mvchetvergova@mvchetvergova ~]$
```

Выполнение лабораторной работы

8. Запустите из консоли в фоновом режиме редактор gedit.

```
[2] 2116
[1]  Выход 1      find ~ -name "log*" -print >> logfile
[mvchetvergova@mvchetvergova ~]$ rm logfile
[2]+  Завершён      find ~ -name "log*" -print >> logfile
[mvchetvergova@mvchetvergova ~]$
```

Выполнение лабораторной работы

9. Определите идентификатор процесса gedit, используя команду ps, конвейер и фильтр grep. Как ещё можно определить идентификатор процесса?

```
[mvchetvergova@mvchetvergova ~]$ ps | grep gedit
 2119 pts/0    00:00:02 gedit
[mvchetvergova@mvchetvergova ~]$ pidof gedit
2119
[mvchetvergova@mvchetvergova ~]$ █
```

Выполнение лабораторной работы

10. Прочтите справку (man) команды kill, после чего используйте её для завершения процесса gedit.

```
foot          User Commands          KILL(1)

NAME
kill - terminate a process

SYNOPSIS
kill [-signal|-s signal|-p] [-q value] [-a] [--timeout
milliseconds signal] [--] pid|name...

kill -l [number] | -L

DESCRIPTION
The command kill sends the specified signal to the
specified processes or process groups.

If no signal is specified, the TERM signal is sent. The
default action for this signal is to terminate the
process. This signal should be used in preference to the
KILL signal (number 9), since a process may install a
handler for the TERM signal in order to perform clean-up
steps before terminating in an orderly fashion. If a
process does not terminate after a TERM signal has been
sent, then the KILL signal may be used; be aware that
the latter signal cannot be caught, and so does not give
the target process the opportunity to perform any
clean-up before terminating.

Most modern shells have a builtin kill command, with a
usage rather similar to that of the command described
here. The --all, --pid, and --queue options, and the
possibility to specify processes by command name, are
local extensions.

If signal is 0, then no actual signal is sent, but error
checking is still performed.
```

Выполнение лабораторной работы

```
[mvchetvergova@mvchetvergova ~]$ man kill  
[mvchetvergova@mvchetvergova ~]$ kill 2119  
[mvchetvergova@mvchetvergova ~]$ █
```

Выполнение лабораторной работы

11. Выполните команды `df` и `du`, предварительно получив более подробную информацию об этих командах, с помощью команды `man`.

Выполнение лабораторной работы

```
foot
DE(1)                               User Commands
NAME
df - report file system space usage

SYNOPSIS
df [OPTION]... [FILE]...

DESCRIPTION
This manual page documents the GNU version of df. df displays the amount of space available on the file system containing each file name argument. If no file name is given, the space available on all currently mounted file systems is shown. Space is shown in 1K blocks by default, unless the environment variable POSIXLY_CORRECT is set, in which case 512-byte blocks are used.

If an argument is the absolute file name of a device node containing a mounted file system, df shows the space available on that file system rather than on the file system containing the device node. This version of df cannot show space available on unmounted file systems, because on most kinds of systems doing so requires very nonportable knowledge of file system structures.

OPTIONS
Show information about the file system on which each FILE resides, or all file systems by default.

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

-a, --all
    include pseudo, duplicate, inaccessible file systems

-B, --block-size=SIZE
    scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see SIZE below

--direct
    show statistics for a file instead of mount point

-h, --human-readable
    print sizes in powers of 1024 (e.g., 1023M)

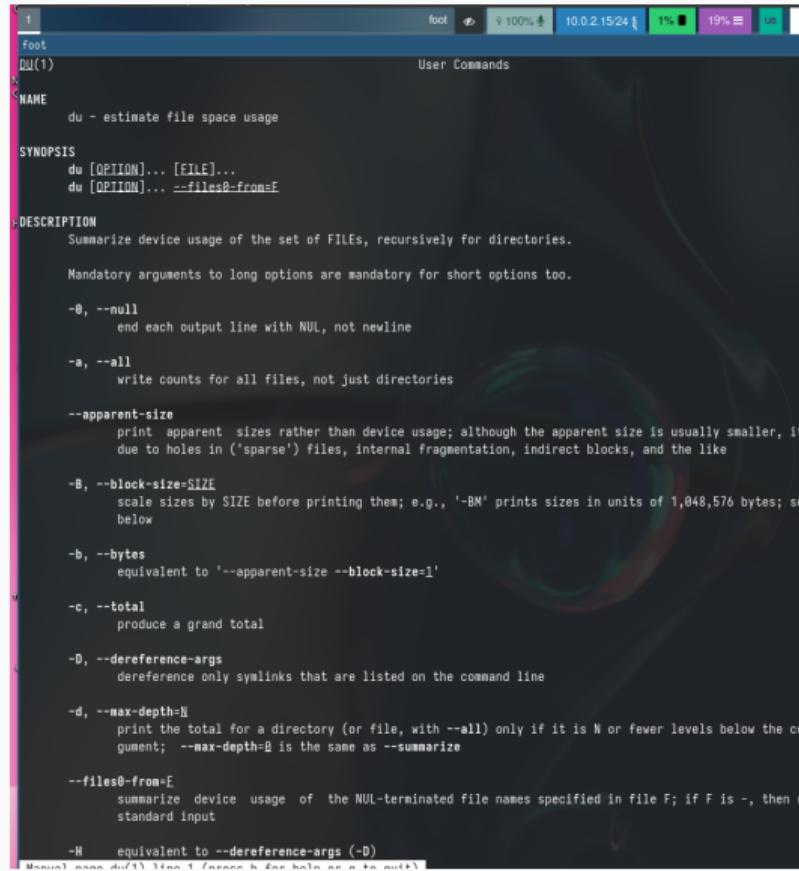
-M, --si
    print sizes in powers of 1000 (e.g., 1.1G)

-i, --inodes
    list inode information instead of block usage

-k      like --block-size=1K

-l, --local
Manual page df(1) line 1 (press h for help or q to quit)
```

Выполнение лабораторной работы



The screenshot shows a terminal window with the man page for the 'du' command. The window title is 'foot'. The man page includes sections for NAME, SYNOPSIS, DESCRIPTION, and various options like -B, -a, --block-size, -c, -D, -d, --files0-from, and -H.

```
1
foot  ↗  100%  10.0.2.15/24  1%  19%  ↘  10
Foot
du(1)                               User Commands

NAME
    du - estimate file space usage

SYNOPSIS
    du [OPTION]... [FILE]...
    du [OPTION]... --files0-from=FILE

DESCRIPTION
    Summarize device usage of the set of FILEs, recursively for directories.

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

-B, --null
    end each output line with NUL, not newline

-a, --all
    write counts for all files, not just directories

--apparent-size
    print apparent sizes rather than device usage; although the apparent size is usually smaller, it
    due to holes in ('sparse') files, internal fragmentation, indirect blocks, and the like

-B, --block-size=SIZE
    scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see
    below

-b, --bytes
    equivalent to '--apparent-size --block-size=1'

-c, --total
    produce a grand total

-D, --dereference-args
    dereference only symlinks that are listed on the command line

-d, --max-depth=N
    print the total for a directory (or file, with --all) only if it is N or fewer levels below the com-
    mand; --max-depth=0 is the same as --summarize

--files0-from=FILE
    summarize device usage of the NUL-terminated file names specified in file F; if F is -, then re-
    standard input

-H      equivalent to --dereference-args (-D)

Man pages didn't find a license in the meta file so I'm not showing one.
```

Выполнение лабораторной работы

```
8     ./ski.places
8     ./australia
8     ./play/games
8     ./play
929816 .
[mvchetvergova@mvchetvergova ~]$ df
Файловая система 1К-блоков Использовано Доступно Использовано Смонтировано в
/dev/sda3      82221856   12982272   68263104      16% /
devtmpfs          4096           0      4096      0% /dev
tmpfs            1727468       344    1727124      0% /dev/shm
efivarsfs         256        141       111      50% /sys/firmware/efi/efivars
tmpfs            699988      1184     689804      0% /run
tmpfs            1727472        4    1727468      0% /tmp
/dev/sda2        996788     245412     682556      27% /boot
/dev/sda3      82221856   12982272   68263104      16% /home
/dev/sda1        613168      19492     593668      4% /boot/efi
work            408871932  162019648  246852284      40% /media/sf_work
tmpfs            345492        92     345400      0% /run/user/1000
[mvchetvergova@mvchetvergova ~]$
```

Выполнение лабораторной работы

```
Foot
248 ./git-extended/.git
252 ./git-extended
0 ./password-store/.git/branches
64 ./password-store/.git/hooks
4 ./password-store/.git/info
4 ./password-store/.git/refs/heads
0 ./password-store/.git/refs/tags
4 ./password-store/.git/refs/remotes/origin
4 ./password-store/.git/refs/remotes
0 ./password-store/.git/refs
0 ./password-store/.git/objects/pack
0 ./password-store/.git/objects/info
8 ./password-store/.git/objects/79
4 ./password-store/.git/objects/0f
4 ./password-store/.git/objects/2c
4 ./password-store/.git/objects/f9
4 ./password-store/.git/objects/64
4 ./password-store/.git/objects/c4
4 ./password-store/.git/objects/05
4 ./password-store/.git/objects/cc
4 ./password-store/.git/objects/2a
4 ./password-store/.git/objects/5a
4 ./password-store/.git/objects/22
48 ./password-store/.git/objects
4 ./password-store/.git/logs/refs/heads
4 ./password-store/.git/logs/refs/remotes/origin
4 ./password-store/.git/logs/refs/remotes
8 ./password-store/.git/logs/refs
12 ./password-store/.git/logs
156 ./password-store/.git
35184 ./password-store/bin
35352 ./password-store
4 ./xnam
32 ./bashrc.d
0 ./io
0 ./monthly
0 ./reports/monthly
0 ./reports
0 ./u-x
8 ./ski-places/equipment
0 ./ski-places/plans
8 ./ski-places
0 ./australia
0 ./play/games
0 ./play
929816 .
[mvchetvergova@mvchetvergova ~]$
```



Выполнение лабораторной работы

12. Воспользовавшись справкой команды find, выведите имена всех директорий, имеющихся в вашем домашнем каталоге.

```
foot
FIND(1)                               General Commands Manual      FIND(1)

NAME
    find - search for files in a directory hierarchy

SYNOPSIS
    find [-H] [-L] [-P] [-D debugopts] [-Olevel] [starting-point...] [expression]

DESCRIPTION
    This manual page documents the GNU version of find.  GNU find searches the directory tree rooted at each given start-
    ing-point by evaluating the given expression from left to right, according to the rules of precedence (see section OPERATORS),
    until the outcome is known (the left hand side is false for and operations, true for or), at which point find
    moves on to the next file name.  If no starting-point is specified, `.' is assumed.

    If you are using find in an environment where security is important (for example if you are using it to search directo-
    ries that are writable by other users), you should read the `Security Considerations' chapter of the findutils documen-
    tation, which is called Finding Files and comes with findutils.  That document also includes a lot more detail and dis-
    cussion than this manual page, so you may find it a more useful source of information.

OPTIONS
    The -H, -L and -P options control the treatment of symbolic links.  Command-line arguments following these are taken to
    be names of files or directories to be examined, up to the first argument that begins with `-', or the argument `(' or
    `!!'.  That argument and any following arguments are taken to be the expression describing what is to be searched for.
    If no paths are given, the current directory is used.  If no expression is given, the expression -print is used (but
    you should probably consider using -print0 instead, anyway).

    This manual page talks about `options' within the expression list.  These options control the behaviour of find but are
    specified immediately after the last path name.  The five `real' options -H, -L, -P and -O must appear before the
    first path name, if at all.  A double dash -- could theoretically be used to signal that any remaining arguments are
    not options, but this does not really work due to the way find determines the end of the following path arguments: it
    does that by reading until an expression argument comes (which also starts with a `-').  Now, if a path argument would
    start with a `-', then find would treat it as expression argument instead.  Thus, to ensure that all start points are
    taken as such, and especially to prevent that wildcard patterns expanded by the calling shell are not mistakenly
    treated as expression arguments, it is generally safer to prefix wildcards or dubious path names with either `./' or to
    use absolute path names starting with '/'.  Alternatively, it is generally safe though non-portable to use the GNU op-
    tion -files0-from to pass arbitrary starting points to find.

    -P    Never follow symbolic links.  This is the default behaviour.  When find examines or prints information about
         files, and the file is a symbolic link, the information used shall be taken from the properties of the symbolic
         link itself.

    -L    Follow symbolic links.  When find examines or prints information about files, the information used shall be
         taken from the properties of the file to which the link points, not from the link itself (unless it is a broken
         symbolic link or find is unable to examine the file to which the link points).  Use of this option implies
```

Выполнение лабораторной работы

```
root
/home/mvchetvergova/git-extended/.git/logs/refs/remotes
/home/mvchetvergova/git-extended/.git/logs/refs/remotes/origin
/home/mvchetvergova/git-extended/.git/logs/refs/remotes/origin/release
/home/mvchetvergova/.password-store
/home/mvchetvergova/.password-store/.git
/home/mvchetvergova/.password-store/.git/branches
/home/mvchetvergova/.password-store/.git/hooks
/home/mvchetvergova/.password-store/.git/info
/home/mvchetvergova/.password-store/.git/refs
/home/mvchetvergova/.password-store/.git/refs/heads
/home/mvchetvergova/.password-store/.git/refs/tags
/home/mvchetvergova/.password-store/.git/refs/remotes
/home/mvchetvergova/.password-store/.git/refs/remotes/origin
/home/mvchetvergova/.password-store/.git/objects
/home/mvchetvergova/.password-store/.git/objects/pack
/home/mvchetvergova/.password-store/.git/objects/info
/home/mvchetvergova/.password-store/.git/objects/79
/home/mvchetvergova/.password-store/.git/objects/0f
/home/mvchetvergova/.password-store/.git/objects/2c
/home/mvchetvergova/.password-store/.git/objects/f9
/home/mvchetvergova/.password-store/.git/objects/64
/home/mvchetvergova/.password-store/.git/objects/c4
/home/mvchetvergova/.password-store/.git/objects/b5
/home/mvchetvergova/.password-store/.git/objects/cc
/home/mvchetvergova/.password-store/.git/objects/2a
/home/mvchetvergova/.password-store/.git/objects/5a
/home/mvchetvergova/.password-store/.git/objects/22
/home/mvchetvergova/.password-store/.git/logs
/home/mvchetvergova/.password-store/.git/logs/refs
/home/mvchetvergova/.password-store/.git/logs/refs/heads
/home/mvchetvergova/.password-store/.git/logs/refs/remotes
/home/mvchetvergova/.password-store/.git/logs/refs/remotes/origin
/home/mvchetvergova/.password-store/bin
/home/mvchetvergova/xnam
/home/mvchetvergova/.bashrc.d
/home/mvchetvergova/.io
/home/mvchetvergova/monthly
/home/mvchetvergova/reports
/home/mvchetvergova/reports/monthly
/home/mvchetvergova/u-x
/home/mvchetvergova/ski.plases
/home/mvchetvergova/ski.plases/equipment
/home/mvchetvergova/ski.plases/plans
/home/mvchetvergova/australia
/home/mvchetvergova/play
/home/mvchetvergova/play/games
[mvchetvergova@mvchetvergova ~]$
```



Выводы

Ознакомление с инструментами поиска файлов и фильтрации текстовых данных. Приобретение практических навыков: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.