

Программирование в командном процессоре ОС UNIX.

Командные файлы

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Цель работы

Изучить основы программирования в оболочке ОС UNIX/Linux.
Научиться писать небольшие командные файлы.

Справка команды архивации

```
~: man — Konsole
Файл Правка Вид Закладки Настройка Справка
TAR(1) GNU TAR Manual TAR(1)

NAME
    tar - an archiving utility

SYNOPSIS
    Traditional usage
    tar {A|c|d|r|t|u|x}[GnSkUWOmpsMBiajJzZhPlRvwo] [ARG...]

    UNIX-style usage
    tar -A [OPTIONS] ARCHIVE ARCHIVE

    tar -c [-f ARCHIVE] [OPTIONS] [FILE...]
    tar -d [-f ARCHIVE] [OPTIONS] [FILE...]
    tar -t [-f ARCHIVE] [OPTIONS] [MEMBER...]
    tar -r [-f ARCHIVE] [OPTIONS] [FILE...]
    tar -u [-f ARCHIVE] [OPTIONS] [FILE...]
    tar -x [-f ARCHIVE] [OPTIONS] [MEMBER...]

    GNU-style usage
    tar [--catenate|--concatenate] [OPTIONS] ARCHIVE ARCHIVE

    tar --create [--file ARCHIVE] [OPTIONS] [FILE...]

    tar [--diff|--compare] [--file ARCHIVE] [OPTIONS] [FILE...]

    tar --delete [--file ARCHIVE] [OPTIONS] [MEMBER...]

    tar --append [-f ARCHIVE] [OPTIONS] [FILE...]

    tar --list [-f ARCHIVE] [OPTIONS] [MEMBER...]

    tar --test-label [--file ARCHIVE] [OPTIONS] [LABEL...]

    tar --update [--file ARCHIVE] [OPTIONS] [FILE...]

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

Создание файла и дача ему права

```
bdzhumae@dk8n81 ~ $ man tar
bdzhumae@dk8n81 ~ $ touch script.sh
bdzhumae@dk8n81 ~ $ chmod +x script.sh
```

File Edit Options Buffers Tools Sh-Script Help

```
#!/bin/bash  
backupname="ScripBack.sh"  
cp "$0" "$backup_name"  
tar -cf laba.tar $backup_name
```

Скрипт в домашней папке



program.asm



program.lst



public



public_html



README.md



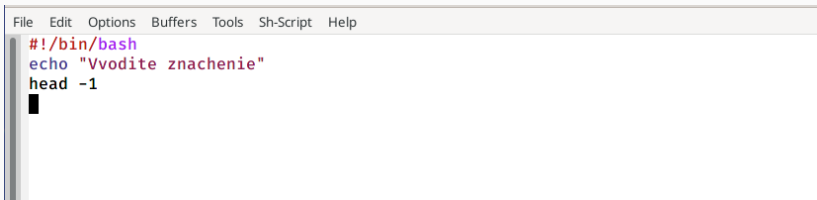
reports



script.sh



ski.places

A screenshot of a terminal window with a menu bar at the top containing 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The terminal content shows a shell script with three lines: '#!/bin/bash' in purple, 'echo "Vvodite znachenie"' in blue, and 'head -1' in black. A black cursor is positioned at the end of the third line.

```
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash
echo "Vvodite znachenie"
head -1
█
```


Вывод всех переданных аргументов

```
bdzhumaev@dk8n81 ~ $ emacs script2.sh
bdzhumaev@dk8n81 ~ $ ./script2.sh
Vvodite znachenie
1 2 3 4 5
1 2 3 4 5
```

File Edit Options Buffers Tools Sh-Script Help

```
#!/bin/bash
for A in *
do if test -d $A
  then echo $A: is a directory
  else echo -n $A: is a file and
    if test -w $A
    then echo writeable
    elif test -r $A
    then echo readable
    else echo neither readable nor writeable
    fi
  fi
done
```

```
bdzhumayev@dk8n81 ~ $ ./file.sh
AA: is a directory
abc1: is a file andwriteable
asdfg: is a file andwriteable
asdfg.asm: is a file andwriteable
file.sh: is a file andwriteable
file.sh~: is a file andwriteable
GNUstep: is a directory
#lab10.sh#: is a file andwriteable
lab10.sh: is a file andwriteable
lab10.sh~: is a file andwriteable
laboratory: is a directory
main.asm: is a file andwriteable
main.lst: is a file andwriteable
Makefile: is a file andwriteable
may: is a file andwriteable
memos: is a directory
misk: is a directory
nasm.asm: is a file andwriteable
nasm.lst: is a file andwriteable
program: is a file andwriteable
program.asm: is a file andwriteable
program.lst: is a file andwriteable
public: is a directory
public_html: is a directory
README.md: is a file andwriteable
reports: is a directory
script2.sh: is a file andwriteable
script2.sh~: is a file andwriteable
script.sh: is a file andwriteable
script.sh~: is a file andwriteable
ski.places: is a directory
tmp: is a directory
work: is a directory
Видео: is a directory
Документы: is a directory
Загрузки: is a directory
```

File Edit Options Buffers Tools Sh-Script Help

```
#!/bin/bash
format=""
direct=""
echo "point out format"
read format
echo "point out direct"
read direct
find "$direct" -name ".$format" -type f | wc -l
ls
```

Вычисление количества файлов

```
bdzhumaev@dk8n81 ~ $ touch script3.sh
bdzhumaev@dk8n81 ~ $ chmod +x script3.sh
bdzhumaev@dk8n81 ~ $ emacs script3.sh
bdzhumaev@dk8n81 ~ $ emacs script3.sh
bdzhumaev@dk8n81 ~ $ ./script3.sh
point out format
.sh
point out direct
/home/bdzhumaev/
find: '/home/bdzhumaev/': Нет такого файла или каталога
0
AA      file.sh~    laboratory  memos      program.asm  reports     script.sh  Видео      Общедоступные
abc1    GNUstep      main.asm   misk       program.lst  script2.sh  script.sh~ Документы  'Рабочий стол'
asdfg   '#lab10.sh#'  main.lst  nasm.asm   public       script2.sh~ ski.plases Загрузки   Шаблоны
asdfg.asm lab10.sh      Makefile  nasm.lst   public_html  script3.sh  tmp        Изображения
file.sh  lab10.sh~    may       program     README.md    script3.sh~ work       Музыка
```

Я изучал основы программирования в оболочке ОС UNIX/Linux и научился писать небольшие команды файлы.