

# Программирование в командном процессоре ОС UNIX. Расширенное программирование

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## Цель работы

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Изучить основы программирования в оболочке ОС UNIX. Научиться писать более сложные командные файлы с использованием логических управляющих конструкций и циклов.

## Создание файла и дача ему прав

```
bdzhumae@dk8n81 ~ $ touch lab13.sh  
bdzhumae@dk8n81 ~ $ chmod +x lab13.sh
```

```
#!/bin/bash
lockfile="./lockfile"
exec {fn}>$lockfile
echo "lock"
until flock -n ${fn}
do
    echo "not lock"
    sleep 1
#    flock -n ${fn}
done
for ((i=0;i<=5;i++))
do
    echo "work"
    sleep 1
done
```

U:--- lab13.sh

All L13

(Shell-script[bash]) Чт июн 3 10:10

```
bdzhumae@dk8n81 ~ $ ./lab13.sh  
lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock  
not lock
```

```
bdzhumae@dk8n81 ~ $ touch lab131.sh  
bdzhumae@dk8n81 ~ $ chmod +x lab131.sh
```

# командный файл

```
#!/bin/bash  
cd /usr/share/man/man1  
less $1*
```



```
bdzhumae@dk8n81 ~ $ ./lab131.sh less
bdzhumae@dk8n81 ~ $
```

```
man1:lab131.sh -- Konsole
Файл  Правка  Вид  Закладки  Настройка  Справка
LESS(1)                                     General Commands Manual  LESS(1)

NAME
    less - opposite of more

SYNOPSIS
    less -?
    less --help
    less -V
    less --version
    less [-[+]*aAbCcDeEffgGiIJKLmMnNqQrRsSuUVvWwX~*]
        [-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). Less uses termcap (or terminfo on some systems), so it can run on a variety of termi-
    nals. There is even limited support for hardcopy terminals. (On a hardcopy terminal, lines which should be printed
    at the top of the screen are prefixed with a caret.)

    Commands are based on both more and vi. Commands may be preceded by a decimal number, called N in the descriptions
    below. The number is used by some commands, as indicated.

COMMANDS
    In the following descriptions, ^X means control-X. ESC stands for the ESCAPE key; for example ESC-v means the two
    character sequence "ESCAPE", then "v".

    h or H Help: display a summary of these commands. If you forget all the other commands, remember this one.

    SPACE or ^V or f or ^F
        Scroll forward N lines, default one window (see option -z below). If N is more than the screen size, only the
        final screenful is displayed. Warning: some systems use ^V as a special literalization character.

    z
        Like SPACE, but if N is specified, it becomes the new window size.

    ESC-SPACE
less.1.bz2 (file 1 of 3) lines 1-40
```

```
bdzhumae@dk8n81 ~ $ touch lab130.sh  
bdzhumae@dk8n81 ~ $ chmod +x lab130.sh  
bdzhumae@dk8n81 ~ $
```

# Командный файл

File Edit Options Buffers Tools Sh-Script Help

```
#!/bin/bash
M=10
c=1
d=1
echo
echo "10 random words:"
while (($c!=($M+1)))
do
    echo $(for((i=1;i<=10;i++)); do printf '%s' "${RANDOM:0:1}"; done) | tr '[:0-9]' '[a-z]'
    echo $d
    ((c+=1))
    ((d+=1))
done
```

## Случайная последовательность букв

```
bdzhumaev@dk8n81 ~ $ ./lab130.sh
```

```
10 random words:
```

```
bbbdccchcbb
```

```
1
```

```
cccedcccc
```

```
2
```

```
ecccbcfbfb
```

```
3
```

```
bddjdccc
```

```
4
```

```
dcebbbbcdd
```

```
5
```

```
dibbbjdbcb
```

```
6
```

```
cggdccbbcc
```

```
7
```

```
dbdbcjccdj
```

```
8
```

```
hccjebbecb
```

```
9
```

```
fbcbbcfidh
```

```
10
```

```
bdzhumaev@dk8n81 ~ $
```

Изучал основы программирования в оболочке ОС UNIX, научилась писать более сложные командные файлы с использованием логических управляющих конструкций и циклов.