

Лабораторная работа 12

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Информация

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Вводная часть

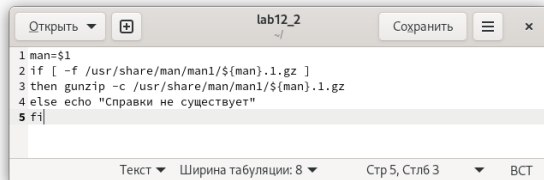
- Изучение основ программирования в командной оболочке bash
- Написание нескольких программ

Основная часть



```
t1=$1
t2=$2
t=0
if ((t<t1))
then echo 'Ожидание'
fi
while ((t<t1))
do
    sleep 1
    let t+=1
done
while ((t<t2))
do
    echo 'Выполнение'
    sleep 1
    let t+=1
done
```

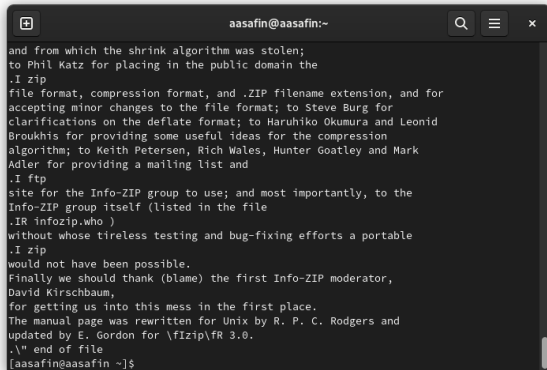
Рис. 1: Программа, выполняющая упрощённый механизм семафоров



```
1 man=$1
2 if [ -f /usr/share/man/man1/${man}.1.gz ]
3 then gunzip -c /usr/share/man/man1/${man}.1.gz
4 else echo "Справки не существует"
5 fi
```

Рис. 2: Программа, аналогичная man

Выполнение лабораторной работы

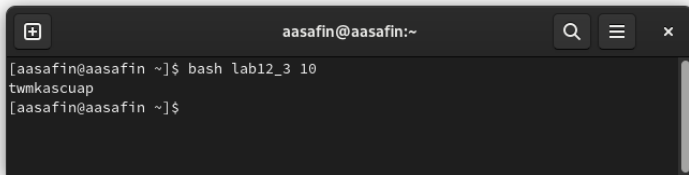
A terminal window with a dark background and light text. The title bar shows 'aasafin@aasafin:~'. The terminal content is a text file being displayed, with lines of text including acknowledgments and technical details about the Info-ZIP group and file formats. The prompt at the bottom is '[aasafin@aasafin ~]\$'.

```
aasafin@aasafin:~  
and from which the shrink algorithm was stolen;  
to Phil Katz for placing in the public domain the  
.I zip  
file format, compression format, and .ZIP filename extension, and for  
accepting minor changes to the file format; to Steve Burg for  
clarifications on the deflate format; to Haruhiko Okumura and Leonid  
Broukhis for providing some useful ideas for the compression  
algorithm; to Keith Petersen, Rich Wales, Hunter Goatley and Mark  
Adler for providing a mailing list and  
.I ftp  
site for the Info-ZIP group to use; and most importantly, to the  
Info-ZIP group itself (listed in the file  
.IR infozip.who )  
without whose tireless testing and bug-fixing efforts a portable  
.I zip  
would not have been possible.  
Finally we should thank (blame) the first Info-ZIP moderator,  
David Kirschbaum,  
for getting us into this mess in the first place.  
The manual page was rewritten for Unix by R. P. C. Rodgers and  
updated by E. Gordon for \fIzip\fR 3.0.  
.\" end of file  
[aasafin@aasafin ~]$
```

Рис. 3: Выполнение

Выполнение лабораторной работы

```
Открыть ▾ + lab12_3 ~/  
|let k=$1+1  
str=''  
while ((k-=1))  
do  
    let num=$((RANDOM%26+1))  
    case $num in  
        1) str+='p';; 2) str+='o';; 3) str+='i';; 4)  
str+='u';; 5) str+='y';; 6) str+='t';; 7) str+='r';; 8) str+='e';; 9)  
str+='w';; 10) str+='q';; 11) str+='a';; 12) str+='s';; 13) str+='d';;  
14) str+='f';; 15) str+='g';; 16) str+='h';; 17) str+='k';; 18)  
str+='j';; 19) str+='l';; 20) str+='m';; 21) str+='n';; 22) str+='b';;  
23) str+='v';; 24) str+='c';; 25) str+='x';; 26) str+='z'  
    esac  
done  
echo $str
```



A terminal window with a dark background. The title bar shows a plus icon, the text 'aasafin@aasafin:~', and search, menu, and close icons. The terminal content shows a prompt '[aasafin@aasafin ~]\$' followed by the command 'bash lab12_3 10', the output 'twmkascuap', and a second prompt '[aasafin@aasafin ~]\$'.

```
[aasafin@aasafin ~]$ bash lab12_3 10  
twmkascuap  
[aasafin@aasafin ~]$
```

Рис. 5: Выполнение

Заключительная часть

- Командные файлы написаны, навык работы с bash развит.