

Командная оболочка Midnight Commander

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Цели и задачи работы

Цель лабораторной работы

Ознакомление с файловой системой Linux, её структурой, именами и содержанием каталогов. Приобретение практических навыков по применению команд для работы с файлами и каталогами, по управлению процессами, по проверке использования диска и обслуживанию файловой системы.

Задачи лабораторной работы

- 1 Изучить возможности Midnight Commander
- 2 Изучить редактор Midnight Commander

Процесс выполнения лабораторной работы

Работа с Midnight Commander

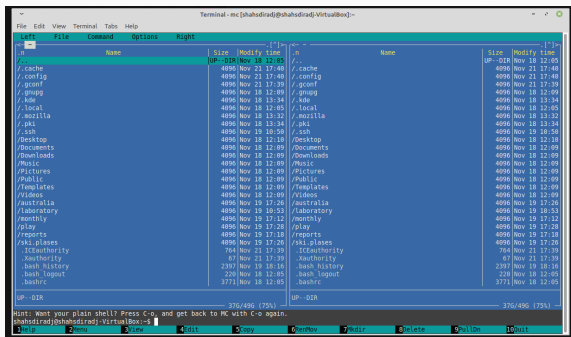


Figure 1: Запуск mc

Работа с Midnight Commander

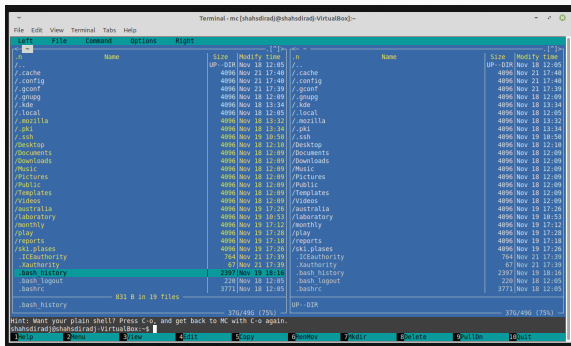


Figure 2: Выделение

Работа с Midnight Commander

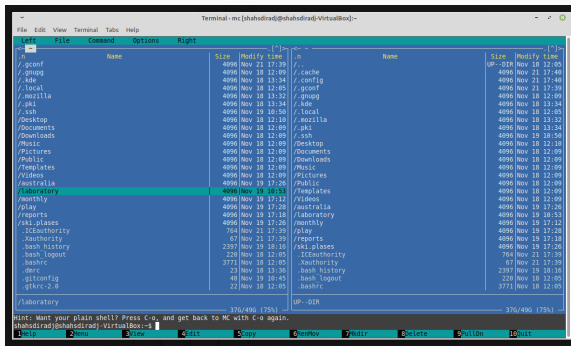


Figure 3: Отмена

Работа с Midnight Commander

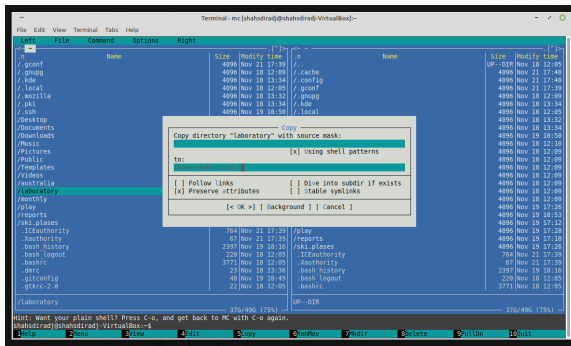


Figure 4: Копирование

The terminal window shows a file manager interface with a menu bar (File, Edit, View, Terminal, Tabs, Help) and a toolbar (Left, File, Command, Options, Right). The main area displays a list of files and directories with columns for Name, Size, and Modify time. A dialog box is open, asking to move the directory 'Laboratory' with source mask. The dialog has a 'To:' field with a dropdown menu showing 'shahdirad' and a list of checkboxes for 'Follow links', 'Dive into subdir if exists', 'Preserve attributes', and 'Stable symlinks'. The dialog also has buttons for 'OK', 'Background', and 'Cancel'.

Name	Size	Modify time
.gnconf	4096	Nov 21 17:39
.gnupg	4096	Nov 18 12:05
.kde	4096	Nov 18 13:34
.local	4096	Nov 18 12:05
.mozilla	4096	Nov 18 13:32
.nfs	4096	Nov 18 13:34
.ssh	4096	Nov 19 10:50
Desktop		
Documents		
Downloads		
Music		
Pictures		
Public		
Templates		
Videos		
.mozilla		
Laboratory		
.monthly		
play		
/reports		
/ski_places		
.ICEauthority	764	Nov 21 17:39
authority	87	Nov 21 17:39
.bash_history	2397	Nov 19 10:16
.bash_logout	220	Nov 18 12:05
.bashrc	3771	Nov 19 10:16
.cshrc	23	Nov 18 13:30
.gitconfig	48	Nov 19 10:45
.gitrc-2.0	22	Nov 18 12:05
.Laboratory		

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Работа с Midnight Commander

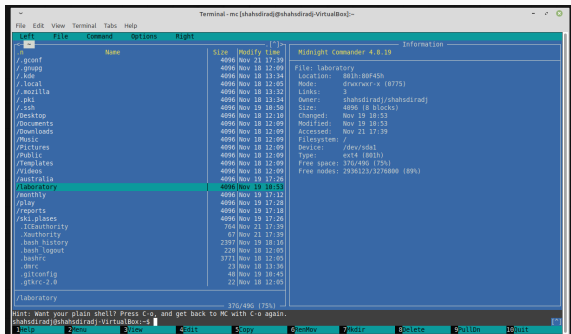


Figure 6: Информация

[illegible]

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[illegible]

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Работа с Midnight Commander

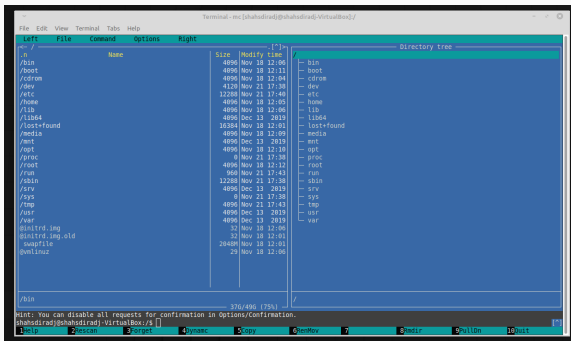


Figure 9: Дерево каталогов

Работа с Midnight Commander

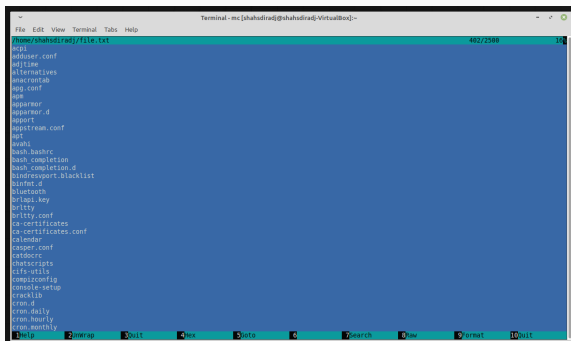


Figure 10: Просмотр содержимого текстового файла

Работа с Midnight Commander

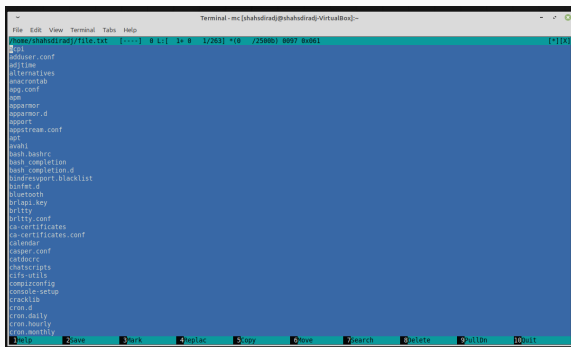


Figure 11: Отредактируем содержимое текстового файла без сохранения результатов

Работа с Midnight Commander

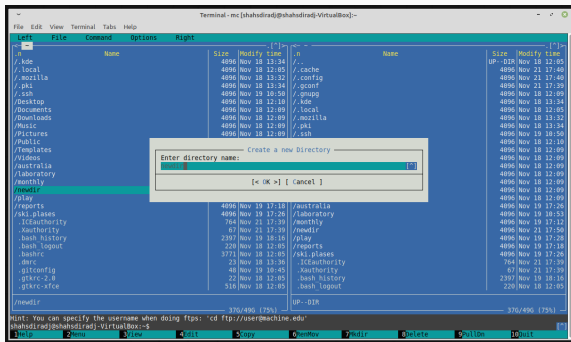


Figure 12: Создание каталога

Работа с Midnight Commander

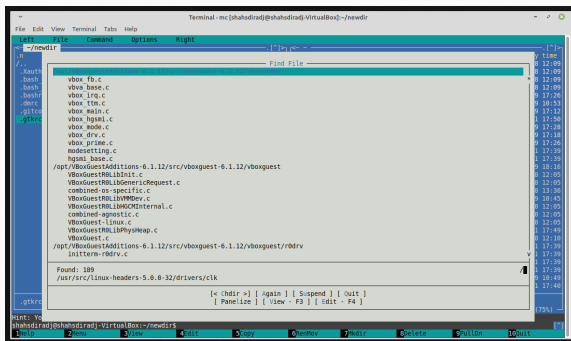


Figure 14: Поиск файлов

[illegible]

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Работа с Midnight Commander

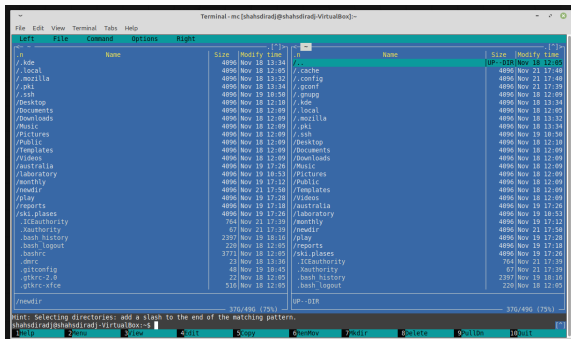
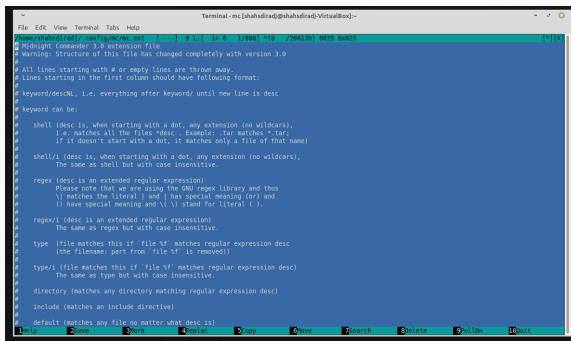


Figure 16: Переход в домашний каталог

Работа с Midnight Commander



```
Terminal - mc [shahsdrad@shahsdrad-VirtualBox]~
File Edit View Terminal Tabs Help
home/shahsdrad/.config/mc/mc.txt [-----] 0 KiB 1-0 1/000 ~0 /204130 0035 0x023 [*][X]
Midnight Commander 3.0 extension file
Warning: Structure of this file has changed completely with version 3.0
#
All lines starting with # or empty lines are thrown away.
Lines starting in the first column should have following format:
# keyword/descNL, i.e. everything after keyword/ until new line is desc
keyword can be:

shell (desc is, when starting with a dot, any extension (no wildcars),
i.e. matches all the files "desc". Example: .tar matches *.tar;
if it doesn't start with a dot, it matches only a file of that name)

shell/i (desc is, when starting with a dot, any extension (no wildcars),
The same as shell but with case insensitive.

regex (desc is an extended regular expression)
Please note that we are using the GNU regex library and thus
\ matches the literal \ and | has special meaning (or) and
() have special meaning and \() \) stand for literal ( ).

regex/i (desc is an extended regular expression)
The same as regex but with case insensitive.

type (file matches this if 'file %f' matches regular expression desc
(the filename: part from 'file %f' is removed))

type/i (file matches this if 'file %f' matches regular expression desc)
The same as type but with case insensitive.

directory (matches any directory matching regular expression desc)

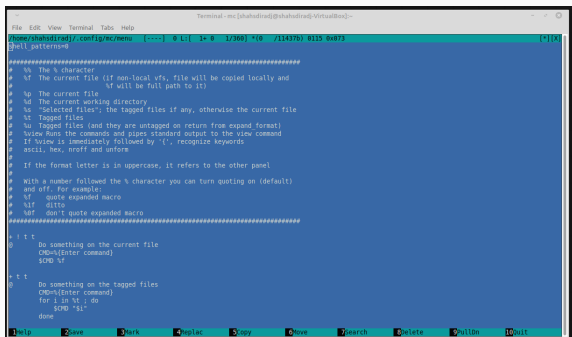
include (matches an include directive)

default (matches any file no matter what desc is)

1help 2save 3mark 4replac 5copy 6move 7search 8delete 9pull down 10quit
```

Figure 17: Просмотр файла расширений

Работа с Midnight Commander



The screenshot shows a terminal window titled "Terminal - mc [shahidrad]@shahidrad-VirtualBox[~]". The window displays the Midnight Commander file menu, which is a list of commands and their descriptions. The menu is organized into sections separated by lines of asterisks. The first section lists various macros and their functions, such as %N for the current file, %f for the current file (if non-local), %d for the current working directory, %s for "Selected files", %t for Tagged files, %u for Tagged files (and they are untagged on return from expand format), %view for running commands and pipes standard output to the view command, and %ascii, %hex, %nroff, and %unfmt for file formats. The second section lists macros for doing something on the current file, such as %f for quote expanded macro, %f for ditto, and %f for don't quote expanded macro. The third section lists macros for doing something on the tagged files, such as %f for quote expanded macro, %f for ditto, and %f for don't quote expanded macro. The menu is displayed in a blue background with white text. The terminal window has a standard Linux-style title bar and a menu bar at the top with options like File, Edit, View, Terminal, Tabs, and Help.

```
Terminal - mc [shahidrad]@shahidrad-VirtualBox[~]
File Edit View Terminal Tabs Help
[shahidrad]~/config/mc/menu [----] 0 L: 1=0 1/300 *() /114376 0115 0x073
Shell pattern:~

=====
# %N The % character
# %f The current file (if non-local %f, file will be copied locally and
# %f will be full path to it)
# %d The current file
# %d The current working directory
# %s "Selected files"; the tagged files if any, otherwise the current file
# %t Tagged files
# %u Tagged files (and they are untagged on return from expand format)
# %view Runs the commands and pipes standard output to the view command
# If %view is immediately followed by '{', recognize keywords
# %ascii, %hex, %nroff and %unfmt
#
# If the format letter is in uppercase, it refers to the other panel
#
# With a number followed the % character you can turn quoting on (default)
# and off. For example:
# %f quote expanded macro
# %f ditto
# %f don't quote expanded macro
=====
+ t t
0 Do something on the current file
  CMD%(enter command)
  SOD %f

+ t t
0 Do something on the tagged files
  CMD%(enter command)
  for i in %t ; do
    SOD '%i'
  done

[help] [view] [dark] [uplat] [copy] [move] [search] [delete] [buildn] [quit]
```

Figure 18: Просмотр файла меню

Работа с Midnight Commander

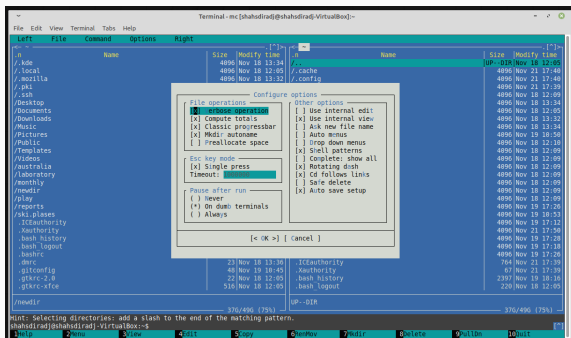


Figure 19: Конфигурация

Работа с Midnight Commander

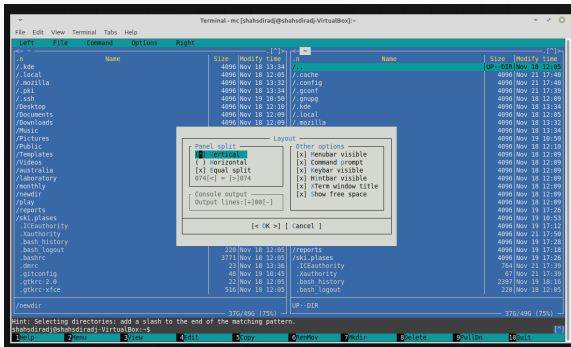


Figure 20: Внешний вид

Работа с Midnight Commander

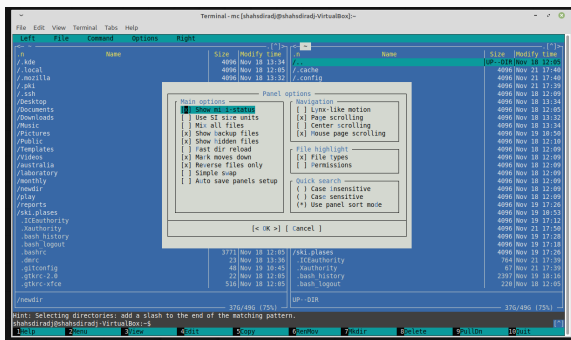


Figure 21: Настройки панелей

Работа с Midnight Commander

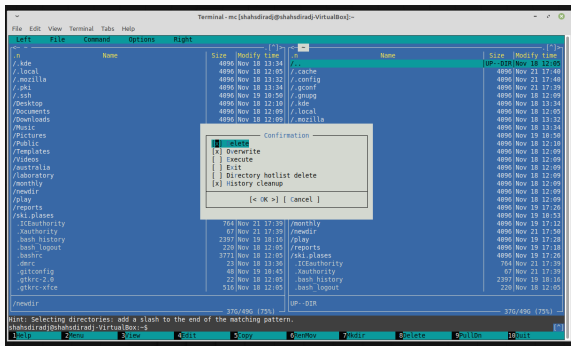


Figure 22: Подтверждение

Работа с Midnight Commander

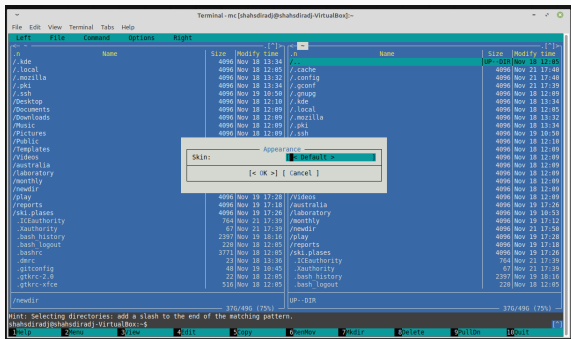


Figure 23: Оформление

Работа с Midnight Commander

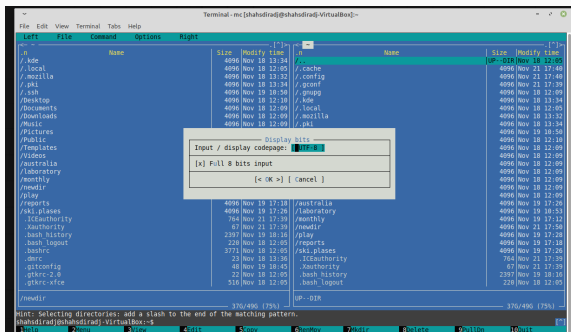


Figure 24: Кодировка символов

```

mc@shahsidrad:~$ cd /home/shahsidrad/.ssh
mc@shahsidrad:~/.ssh$ ls
config
mc@shahsidrad:~/.ssh$ mkdir australia
mc@shahsidrad:~/.ssh$ nano config
  File Edit View Terminal Tabs Help
  --
  Name Size Modify Time Name Size Modify Time
  --
  / .kde 4096 Nov 18 13:34 / .cache 4096 Nov 21 17:40
  / .local 4096 Nov 18 12:05 / .config 4096 Nov 21 17:40
  / .mozilla 4096 Nov 18 13:32 / .cronf 4096 Nov 21 17:39
  / .pk 4096 Nov 18 13:34 / 4096 Nov 18 12:09
  / .ssh 4096 Nov 18 13:34
  Desktop 4096 Nov 18 13:34
  Documents 4096 Nov 18 12:05
  Downloads 4096 Nov 18 13:32
  Music 4096 Nov 18 13:34
  Pictures 4096 Nov 19 10:50
  Public 4096 Nov 18 12:10
  Templates 4096 Nov 18 12:09
  Videos 4096 Nov 18 12:09
  /australia 4096 Nov 18 12:09
  /laboratory 4096 Nov 18 12:09
  /nairobi 4096 Nov 18 12:09
  /newdir 4096 Nov 18 12:09
  /play 4096 Nov 18 12:09
  /reports 4096 Nov 19 12:06
  /XMS places 4096 Nov 19 10:53
  .ICEauthority 4096 Nov 17:12
  .Xauthority 4096 Nov 17:50
  .bash_history 4096 Nov 17:26
  .bash_logout 4096 Nov 17:18
  .bashrc 4096 Nov 17:26
  .bashrc 764 Nov 21 17:39
  .gitconfig 67 Nov 21 17:39
  .gtkrc-2.0 2397 Nov 18 16
  .gtkrc-xfce 220 Nov 18 12:05

[Escape] [Function key 13] [Left arrow]
[Function key 1] [Function key 14] [Right arrow]
[Function key 2] [Function key 15] [Insert]
[Function key 3] [Function key 16] [Delete]
[Function key 4] [Function key 17] [Home]
[Function key 5] [Function key 18] [End key]
[Function key 6] [Function key 19] [Page up]
[Function key 7] [Function key 20] [Page Down]
[Function key 8] [Completion/M-tab] [ on keypad]
[Function key 9] [Tab/Tab+5-tab] [ on keypad]
[Function key 10] [Backspace] [ on keypad]
[Function key 11] [Up arrow] [ on keypad]
[Function key 12] [Down arrow] [ on keypad]

Press all the keys mentioned here. After you have done it, check
which keys are not marked with OK. Press space on the missing
key, or click with the mouse to define it. Move around with Tab.

[ Save ] [ cancel ]

22 Nov 18 12:05 .bash_history
518 Nov 18 12:05 .bash_logout

UP-OIR 370,496 (75%)
  
```

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Работа с редактором Midnight Commander

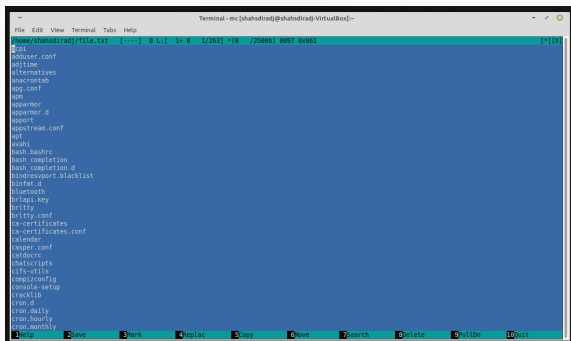


Figure 26: Файл с текстом

Работа с редактором Midnight Commander

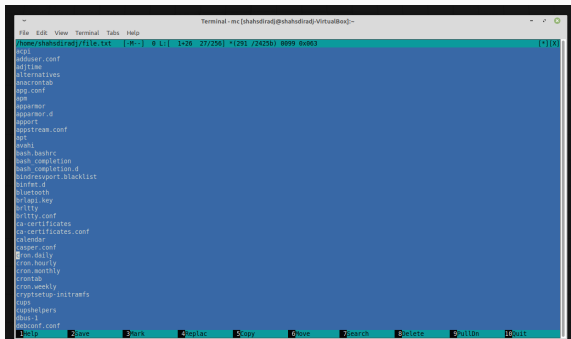


Figure 27: Файл с текстом

Работа с редактором Midnight Commander



Figure 28: Копирование фрагмента

Работа с редактором Midnight Commander

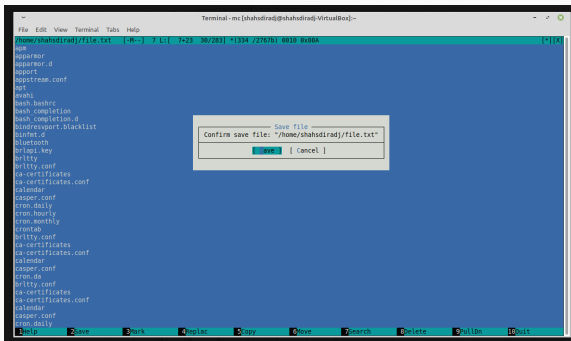


Figure 29: Сохранение

Работа с редактором Midnight Commander

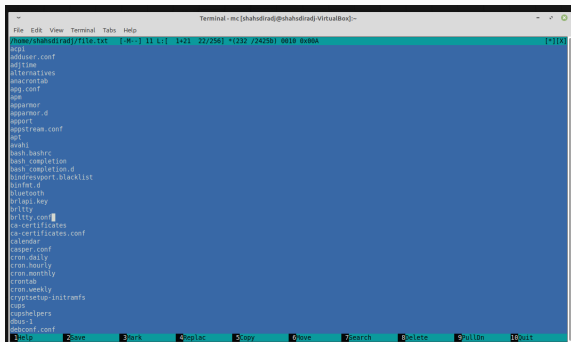


Figure 30: Отмена

Работа с редактором Midnight Commander

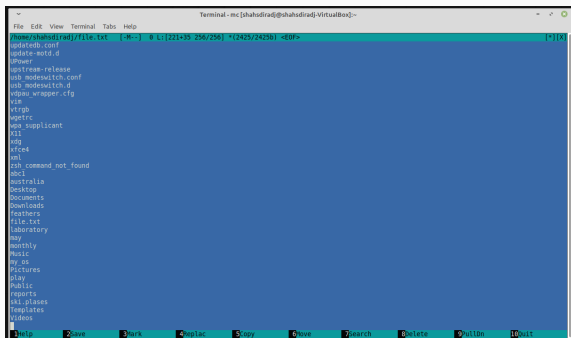


Figure 31: Переход в конец файла

Работа с редактором Midnight Commander

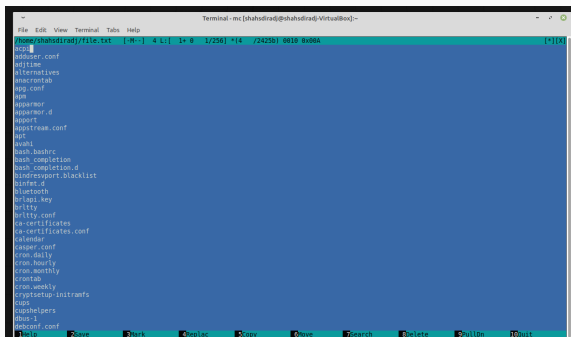


Figure 32: Переход в начало файла

Работа с редактором Midnight Commander

```
Terminal - mc [shahadi@shahadi-VirtualBox]-
```

```
File Edit View Terminal Tabs Help  
root@ubuntuadditions:6.12/src/vbique-exquest/rdrv/linux/smevent-rdrv-linux.c [main] 0 L: 26+35 61/280 *{2639/94110} #032 ex020 *%{A  
#include "vbique-exquest.h"  
#include "header_files"  
#include "the-linux-kernel.h"  
#include "internal/rprt.h"  
#include <rprt/sempore.h>  
  
#include <rprt/wen.h>  
#include <rprt/assort.h>  
#include <rprt/rear.h>  
#include <rprt/lockwindicator.h>  
#include <rprt/wen.h>  
  
#include "waitqueue-rdrv-linux.h"  
#include "internal/magic.h"  
  
// Structures and Typedefs  
//  
// Linux event semaphore  
typedef struct RTSNEVENTINTERNAL  
{  
    // Basic value (RTSPMWEN_MAGIC).  
    uint32_t volatile u32Magic;  
    // The object status. It shows signaled and 0 when reset.  
    uint32_t volatile iState;  
    // Between queue  
    uint32_t volatile cRefs;  
    // The wait pointer  
    wait_queue_head_t head;  
};
```

Figure 33: Файл с программой

Работа с редактором Midnight Commander

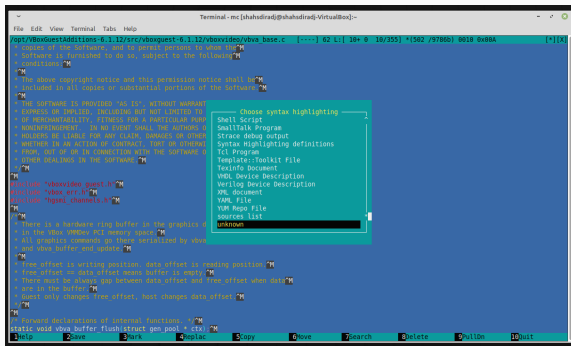


Figure 34: Цветовыделение синтаксиса

Выводы по проделанной работе

В данной работе мы ознакомились с инструментами поиска файлов и фильтрации текстовых данных. А также приобрели практические навыки по управлению процессами.