

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

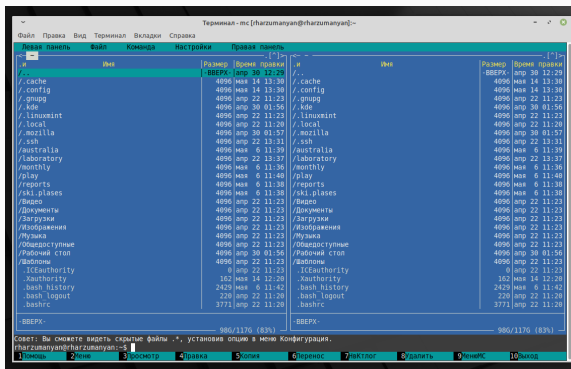


Figure 1: Запуск mc

Работа с Midnight Commander

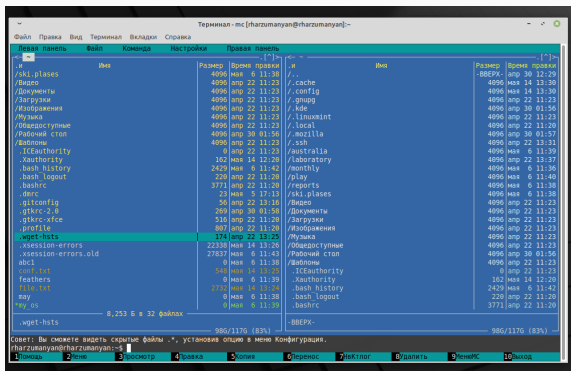


Figure 2: Выделение

Работа с Midnight Commander

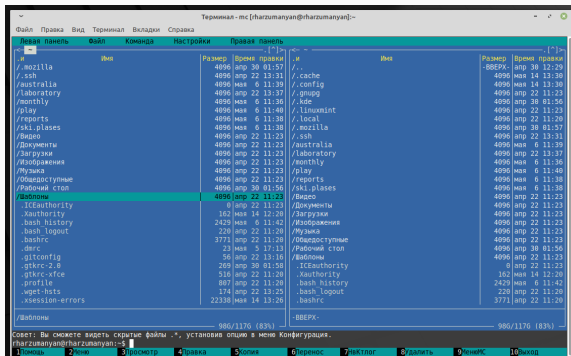


Figure 3: Отмена

Работа с Midnight Commander

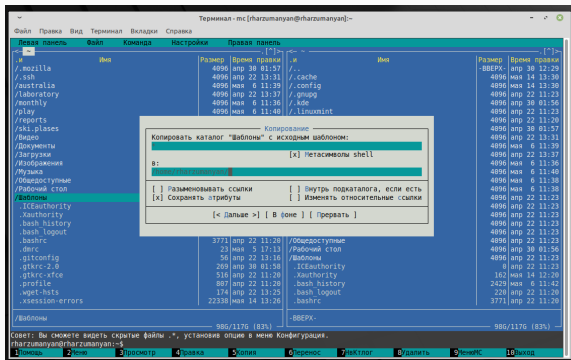


Figure 4: Копирование

Работа с Midnight Commander

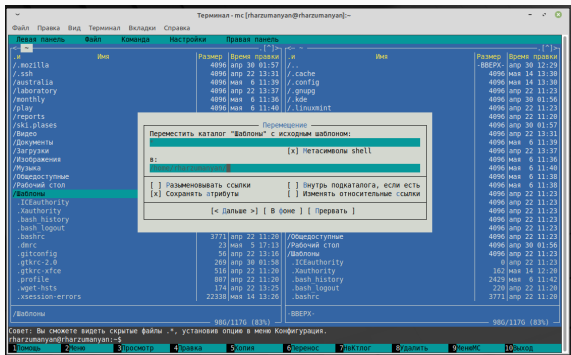


Figure 5: Перемещение

Работа с Midnight Commander

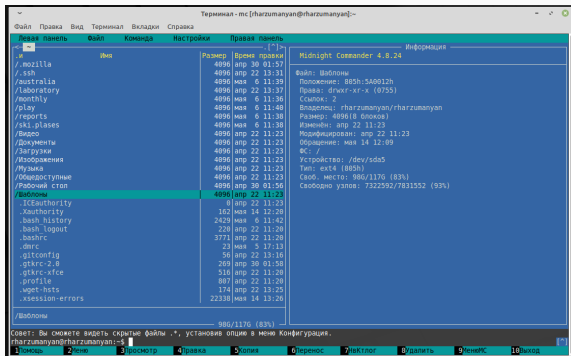


Figure 6: Информация

Работа с Midnight Commander

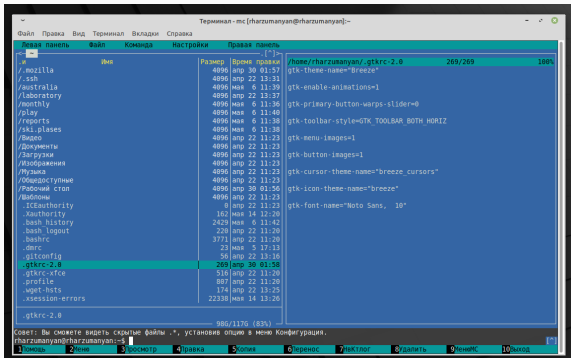


Figure 7: Быстрый просмотр

Работа с Midnight Commander

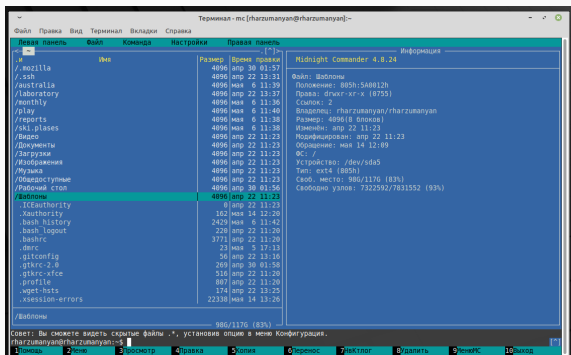
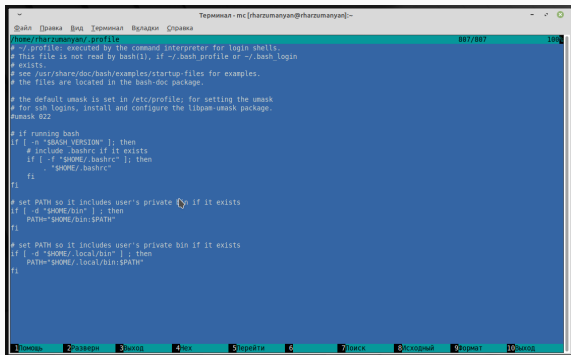


Figure 8: Информация

[illegible]

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Работа с Midnight Commander



```
Терминал - mc [rhazumanyan@rhazumanyan]~
/home/rhazumanyan/.profile
# ~/.profile: executed by the command interpreter for login shells.
# This file is not read by bash(1), if ~/.bash_profile or ~/.bash_login
# exists.
# see /usr/share/doc/bash/examples/startup-files for examples.
# the files are located in the bash-doc package.

# the default umask is set in /etc/profile; for setting the umask
# for ssh logins, install and configure the libpam-umask package.
umask 022

# if running bash
if [ -n "$BASH_VERSION" ]; then
    # include .bashrc if it exists
    if [ -f "$HOME/.bashrc" ]; then
        . "$HOME/.bashrc"
    fi
fi

# set PATH so it includes user's private bin if it exists
if [ -d "$HOME/bin" ] ; then
    PATH="$HOME/bin:$PATH"
fi

# set PATH so it includes user's private bin if it exists
if [ -d "$HOME/.local/bin" ] ; then
    PATH="$HOME/.local/bin:$PATH"
fi
```

Figure 10: Просмотр содержимого текстового файла

Работа с Midnight Commander

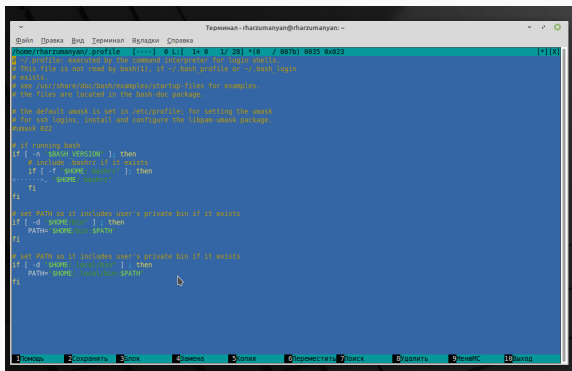


Figure 11: Отредактируем содержимое текстового файла без сохранения результатов

Работа с Midnight Commander

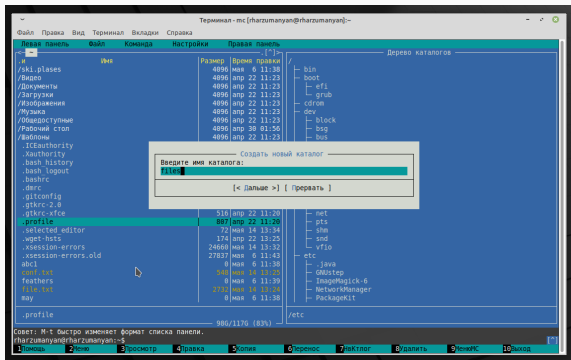


Figure 12: Создание каталога

Работа с Midnight Commander

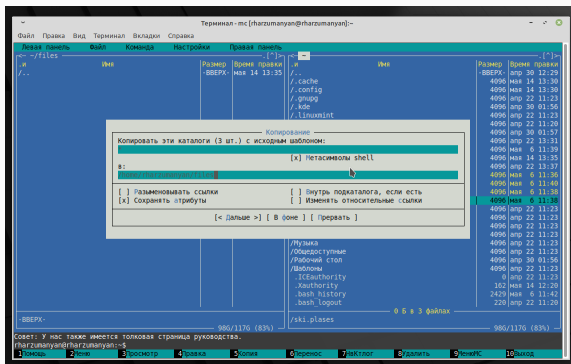


Figure 13: Копирование в файлов в созданный каталог

Работа с Midnight Commander

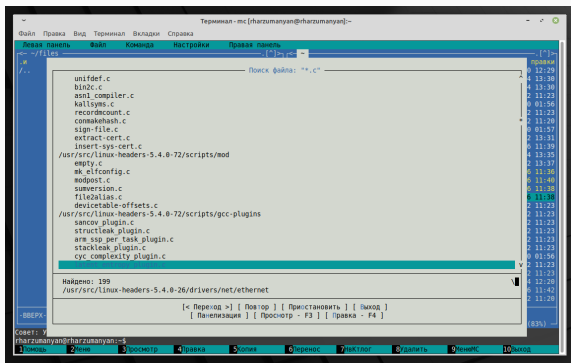


Figure 14: Поиск файлов

Работа с Midnight Commander

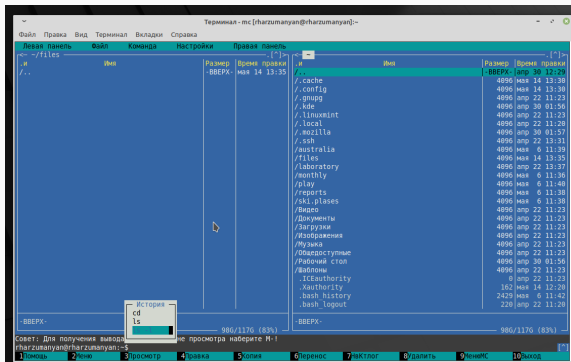


Figure 15: История команд

Работа с Midnight Commander

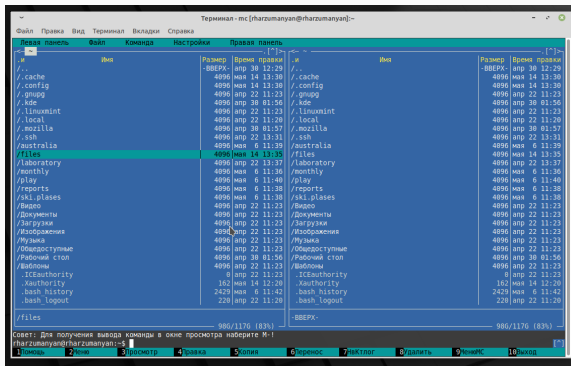
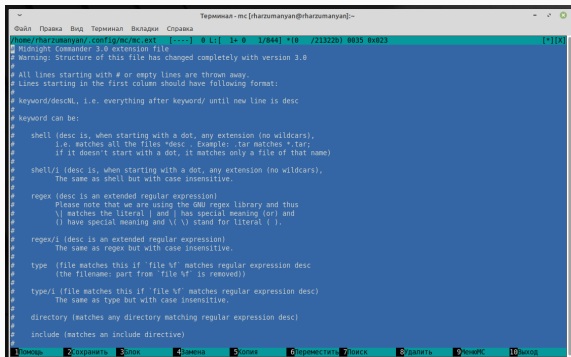


Figure 16: Переход в домашний каталог

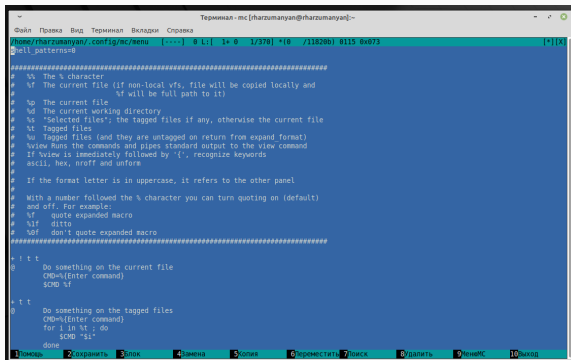
Работа с Midnight Commander



```
Терминал - mc [rhazumanyan@rhazumanyan]~
Файл Правка Вид Терминал Вкладки Справка
/home/rhazumanyan/.config/mc/mc.ext [----] 0 L: 1+ 0 1/844 *{0 /213226} 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)
#
```

Figure 17: Просмотр файла расширений

Работа с Midnight Commander



The screenshot shows the Midnight Commander (MC) application window. The title bar reads "Терминал - mc [rharzumanyan@rharzumanyan]:". The menu bar includes "Файл", "Правка", "Вид", "Терминал", "Вкладки", and "Справка". The "Файл" (File) menu is open, displaying a list of commands and their descriptions in Russian. The status bar at the bottom shows various icons and labels: "1. Помощь", "2. Сохранить", "3. Поиск", "4. Имена", "5. Опции", "6. Переместить", "7. Поиск", "8. Удалить", "9. Имена", and "10. Выход".

```
Терминал - mc [rharzumanyan@rharzumanyan]~
/home/rharzumanyan/.config/mc/menu  [----]  0 L:  1+ 0  1/370  *(0  /118200) 0115 8x073  [*][X]
hell_patterns=0

#####
# % The % character
# %f The current file (if non-local vfs, file will be copied locally and
#           %f will be full path to it)
# %p 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 unform
#
# 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
# %!of don't quote expanded macro
#####
+ t t
0   Do something on the current file
   CMD=[Enter command]
   SCMD %f

+ t t
0   Do something on the tagged files
   CMD=[Enter command]
   for i in %t ; do
     SCMD "%s"
   done
done
```

Figure 18: Просмотр файла меню

Работа с Midnight Commander

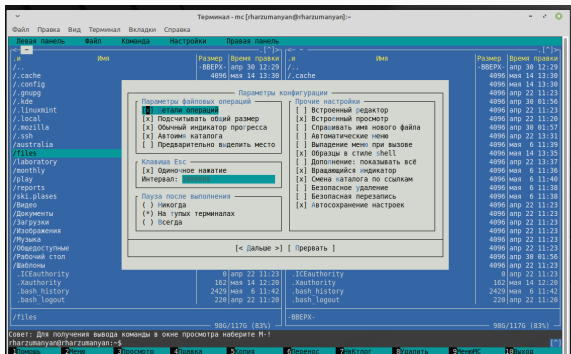


Figure 19: Конфигурация

Работа с Midnight Commander

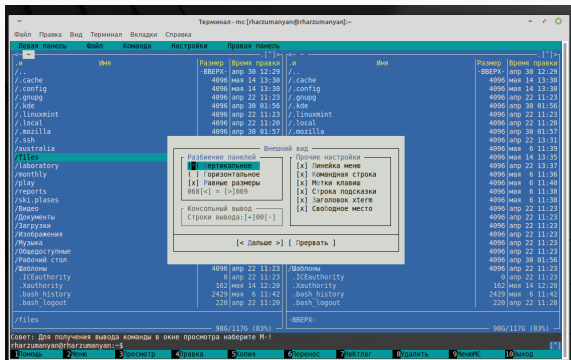


Figure 20: Внешний вид

Работа с Midnight Commander

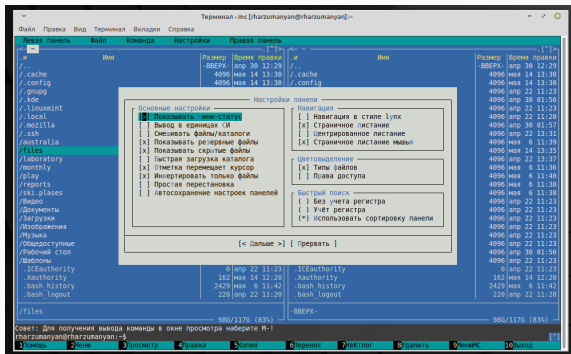


Figure 21: Настройки панелей

Работа с Midnight Commander

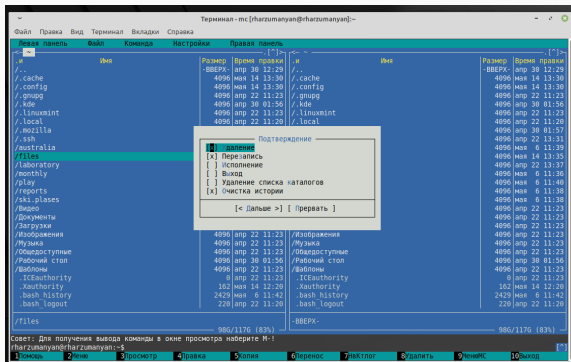


Figure 22: Подтверждение

Работа с Midnight Commander

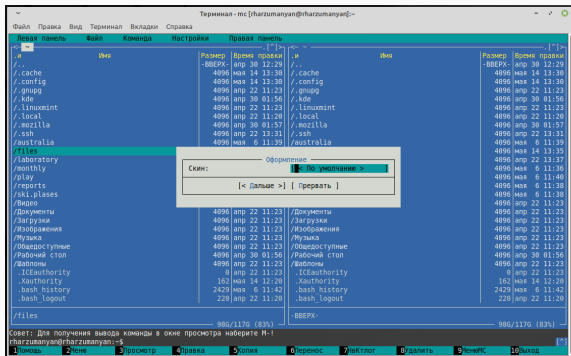


Figure 23: Оформление

Работа с Midnight Commander

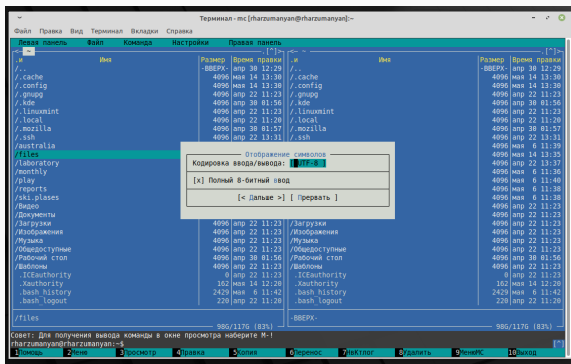


Figure 24: Кодировка символов

Работа с Midnight Commander

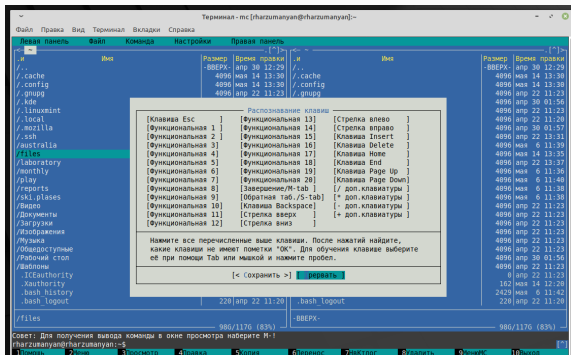


Figure 25: Распознавание клавиш

Работа с редактором Midnight Commander

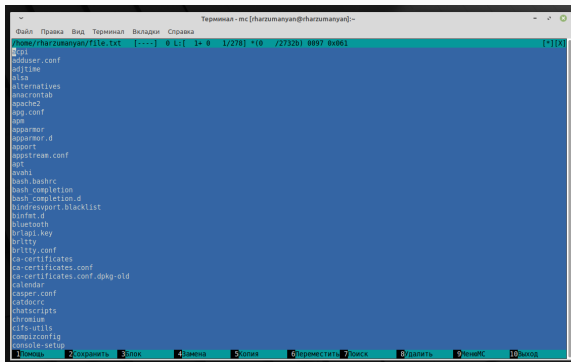


Figure 26: Файл с текстом

Работа с редактором Midnight Commander

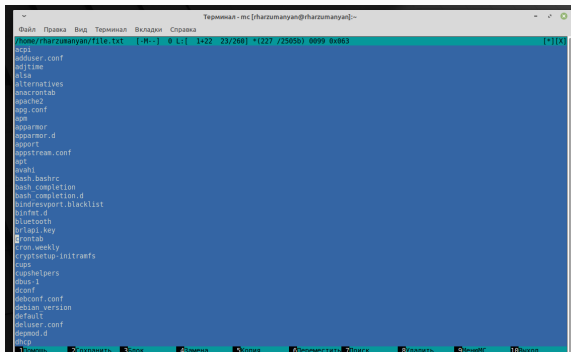


Figure 27: Файл с текстом

Работа с редактором Midnight Commander

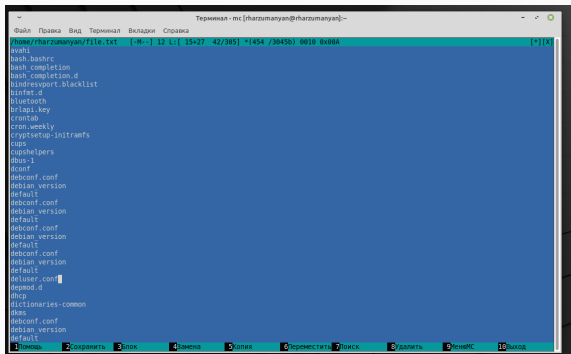


Figure 28: Копирование фрагмента

Работа с редактором Midnight Commander

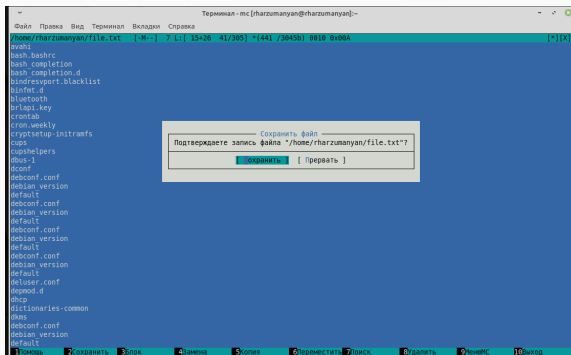


Figure 29: Сохранение

Работа с редактором Midnight Commander

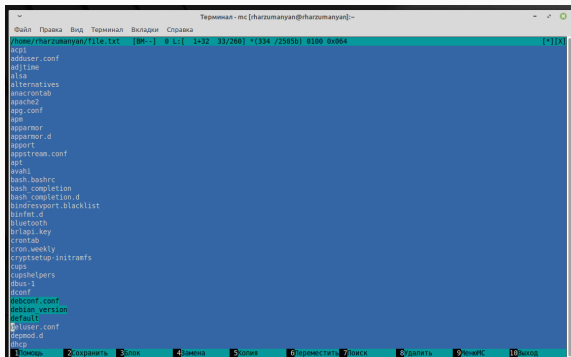


Figure 30: Отмена

Работа с редактором Midnight Commander

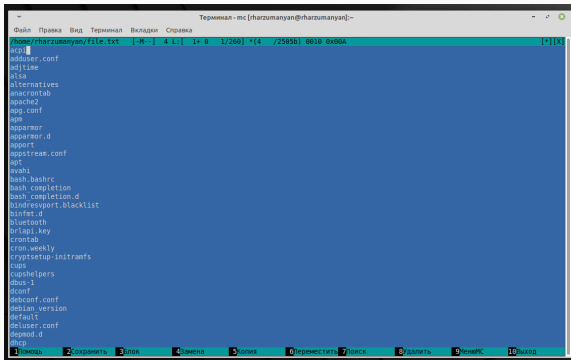
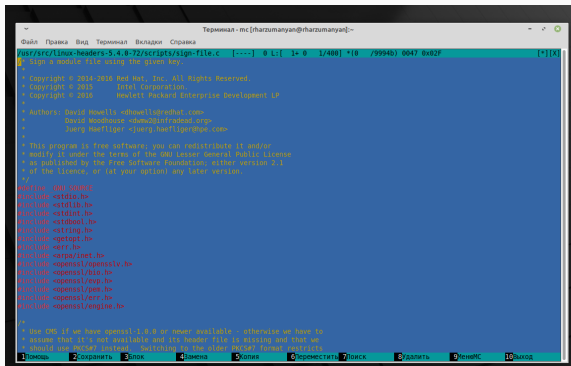


Figure 32: Переход в начало файла

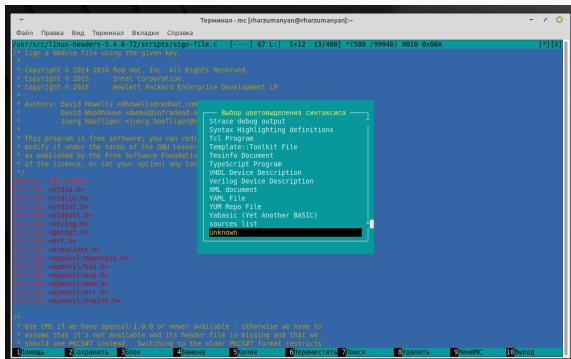
Работа с редактором Midnight Commander



```
Терминал - mc [fharzumanyan@fharzumanyan:~]
Файл  Правка  Вид  Терминал  Вкладки  Справка
/usr/src/linux-headers-3.4.0-72/scripts/sign-file.c  [----]  0  L:  [ 1= 0  1/400]  *  [0  /99546]  0047  6x02F  [*][X]
* Sign a x86_64 file using the given key.
*
* Copyright © 2014-2016 Red Hat, Inc. All Rights Reserved.
* Copyright © 2015    Intel Corporation
* Copyright © 2016    Hewlett-Packard Enterprise Development LP
*
* Authors: David Howells <dhowells@redhat.com>
*          David Woodhouse <dwmw2@infradead.org>
*          Jürg Haefliger <jurg.haefliger@hp.com>
*
* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation, either version 2.1
* of the License, or (at your option) any later version.
*/
#include <stdio.h>
#include <stdlib.h>
#include <stdint.h>
#include <stdint.h>
#include <string.h>
#include <getopt.h>
#include <err.h>
#include <arpa/inet.h>
#include <openssl/connect.h>
#include <openssl/bio.h>
#include <openssl/evp.h>
#include <openssl/pem.h>
#include <openssl/engine.h>
/*
* Use DNS if we have openssl 1.0.0 or newer available - otherwise we have to
* assume that it's not available and its header file is missing and that we
* should use better control - switching to the older socket-based controls
*/
1 2 3 4 5 6 7 8 9 10
```

Figure 33: Файл с программой

Работа с редактором Midnight Commander



Фигура 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.