

# Командная оболочка Midnight Commander

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# Цели и задачи работы

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## 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**

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# Работа с Midnight Commander

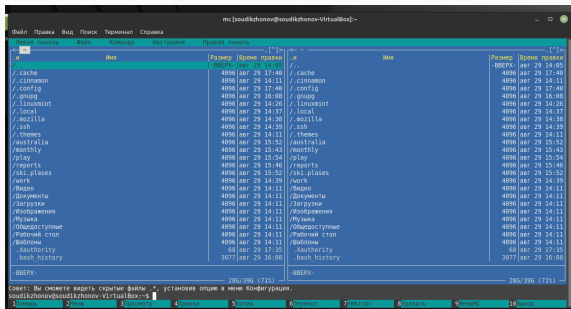


Figure 1: Запуск mc

# Работа с Midnight Commander

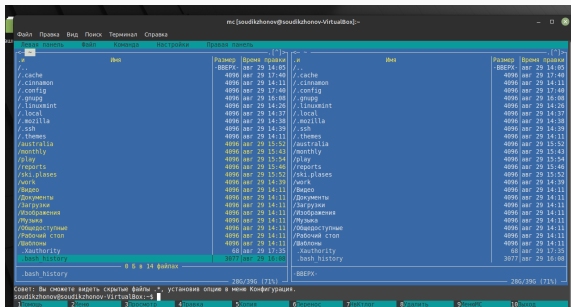


Figure 2: Выделение

# Работа с Midnight Commander

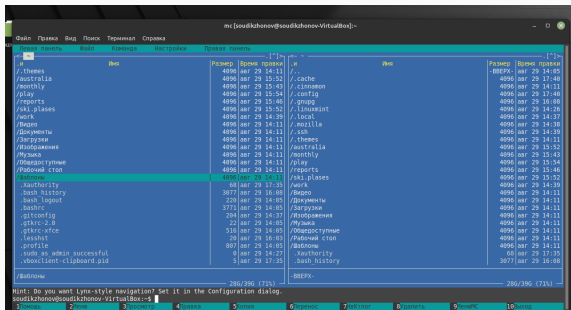


Figure 3: Отмена



# Работа с Midnight Commander

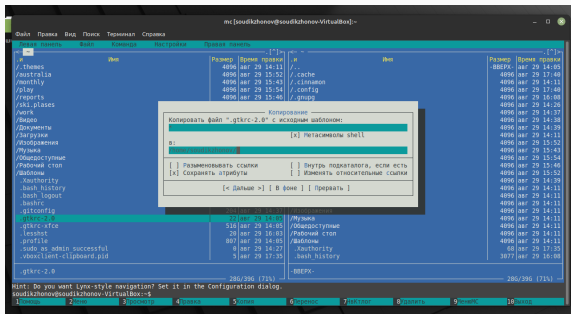


Figure 4: Копирование

# Работа с Midnight Commander

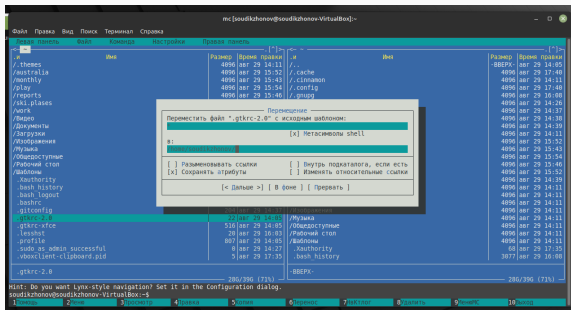
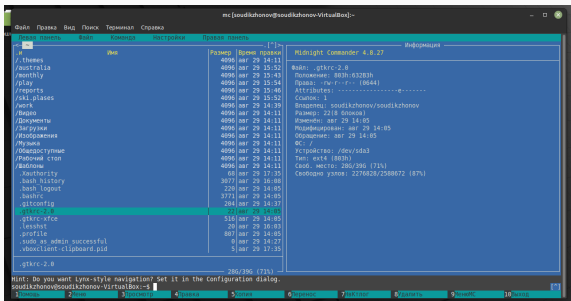


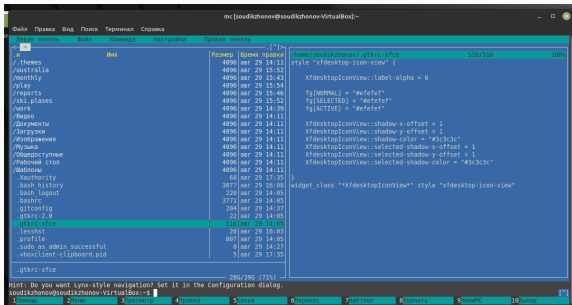
Figure 5: Перемещение

## Работа с Midnight Commander



### Figure 6: Информация

## Работа с Midnight Commander



### Figure 7: Быстрый просмотр

# Работа с Midnight Commander

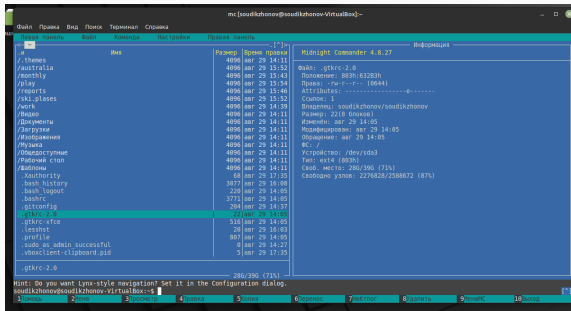


Figure 8: Информация

# Работа с Midnight Commander

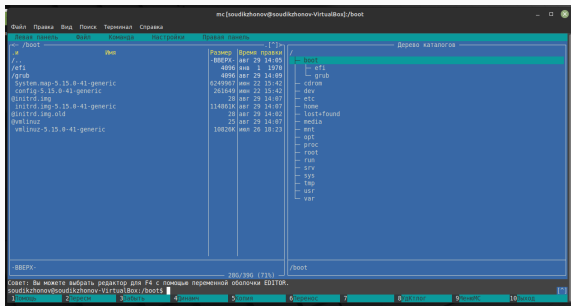
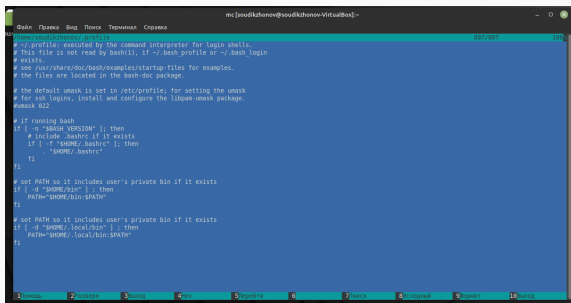


Figure 9: Дерево каталогов

# Работа с Midnight Commander



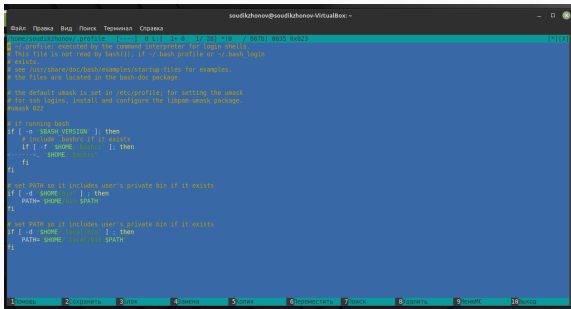
The screenshot shows the Midnight Commander (mc) interface. The top bar displays the title 'mc [soudikzhanov@soudikzhanov-VirtualBox]'. The menu bar includes 'Файл', 'Правка', 'Вид', 'Поиск', 'Терминал', and 'Справка'. The main window shows the contents of the file '/etc/passwd'. The text is as follows:

```
/etc/soudikzhanov/.profile                                887/887      100%
# ~/.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 ash logins, install and configure the libpan-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
```

At the bottom, there is a status bar with 10 tabs labeled '1. Терминал', '2. Выход', '3. Поиск', '4. Выход', '5. Выход', '6', '7. Выход', '8. Выход', '9. Выход', and '10. Выход'.

**Figure 10:** Просмотр содержимого текстового файла

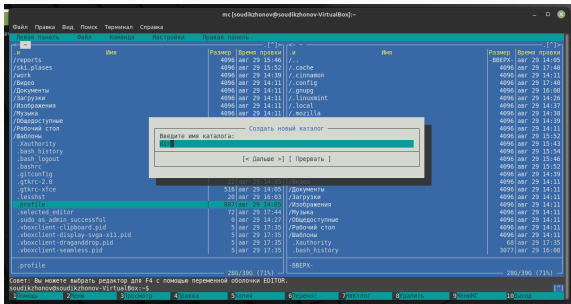
## Работа с Midnight Commander



**Figure 11:** Отредактируем содержимое текстового файла без сохранения результатов

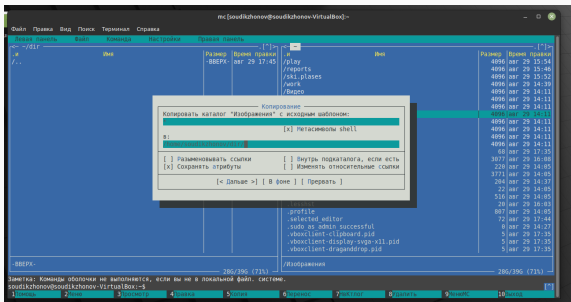


## Работа с Midnight Commander



### Figure 12: Создание каталога

## Работа с Midnight Commander



**Figure 13:** Копирование в файлов в созданный каталог

# Работа с Midnight Commander

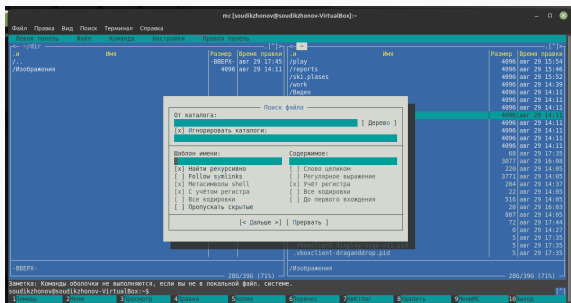


Figure 14: Поиск файлов

# Работа с Midnight Commander

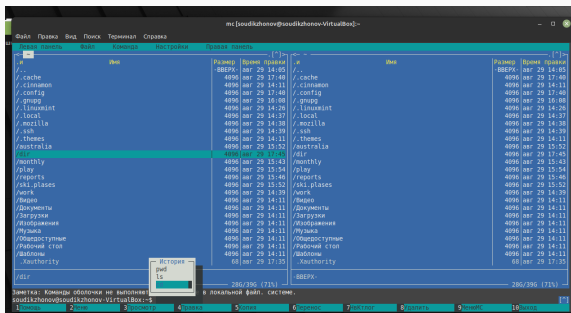
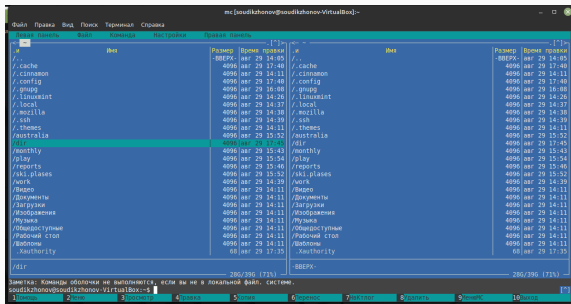


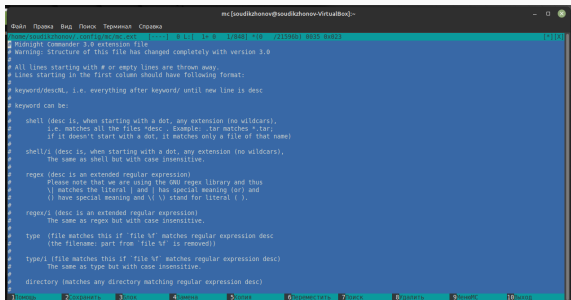
Figure 15: История команд

## Работа с Midnight Commander



### Figure 16: Переход в домашний каталог

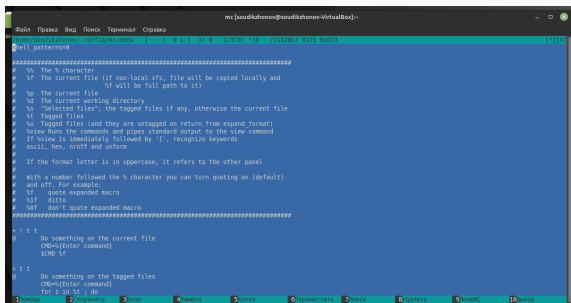
# Работа с Midnight Commander



```
mc[soudikzhonov@soudikzhonov-VirtualBox]-
Файл  Правка  Вид  Поиск  Терминал  Справка
/home/soudikzhonov/.config/mc/mc_ext  [~]  0 L  1* 0  1/048  *10  /2159601 0035 0x023  [~]10
# 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/description, i.e. everything after keyword/ until new line is desc
#
# keyword can be:
#
# shell (desc is, when starting with a dot, any extension (no wildcards),
#       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 wildcards),
#         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)
```

Figure 17: Просмотр файла расширений

# Работа с Midnight Commander



The screenshot shows a terminal window titled "mc [soundkzhonov@soundkzhonov-VirtualBox]~". The menu bar at the top includes "Файл", "Правка", "Вид", "Помощь", "Терминал", and "Справка". The "Файл" (File) menu is open, displaying a list of options: "well\_patterns", "#####", "%% The % character", "%f The current file (if non-local vfs, file will be copied locally and %f will be full path to it)", "%o 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)", "vview Runs the commands and pipes standard output to the vview command", "If vview is immediately followed by '!', recognize keywords", "ascii, hex, nroff and uform", "#####", "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 Do something on the current file", "O O=O (enter command)", "S O=O %f", "t t Do something on the tagged files", "O O=O (enter command)", "For a list of %f, do". At the bottom, a numbered list of keyboard shortcuts is visible: "1. F1", "2. F2", "3. F3", "4. F4", "5. F5", "6. F6", "7. F7", "8. F8", "9. F9", "10. F10".

```
mc [soundkzhonov@soundkzhonov-VirtualBox]~
Файл Правка Вид Помощь Терминал Справка
well_patterns
#####
%% The % character
%f The current file (if non-local vfs, file will be copied locally and
%f will be full path to it)
%o 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)
vview Runs the commands and pipes standard output to the vview command
If vview is immediately followed by '!', recognize keywords
ascii, hex, nroff and uform
#####
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
O Do something on the current file
O=O (enter command)
S O=O %f
t t
O Do something on the tagged files
O=O (enter command)
For a list of %f, do
1. F1 2. F2 3. F3 4. F4 5. F5 6. F6 7. F7 8. F8 9. F9 10. F10
```

Figure 18: Просмотр файла меню

# Работа с Midnight Commander

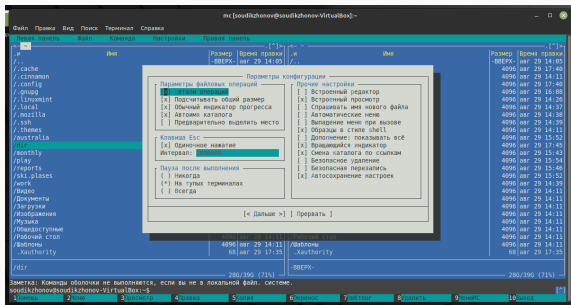


Figure 19: Конфигурация



# Работа с Midnight Commander

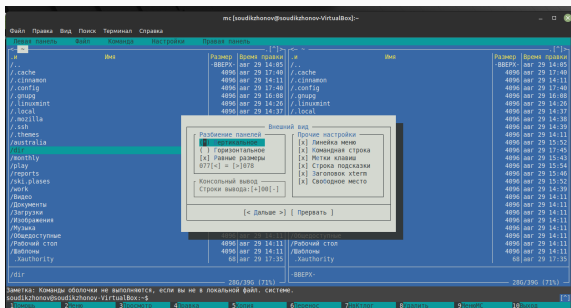


Figure 20: Внешний вид

# Работа с Midnight Commander

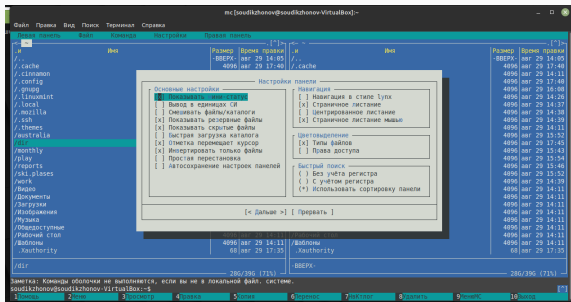


Figure 21: Настройки панелей

# Работа с Midnight Commander

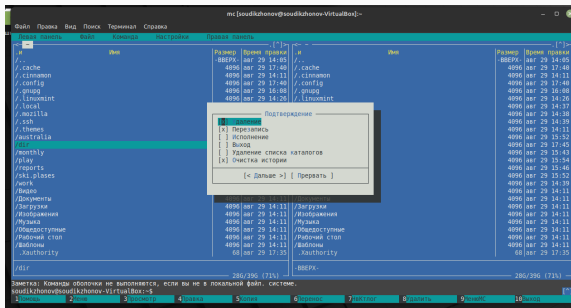


Figure 22: Подтверждение

# Работа с Midnight Commander

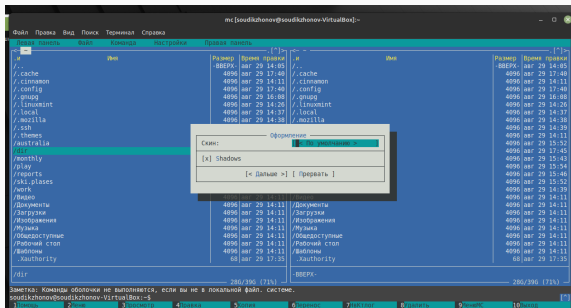


Figure 23: Оформление

# Работа с Midnight Commander

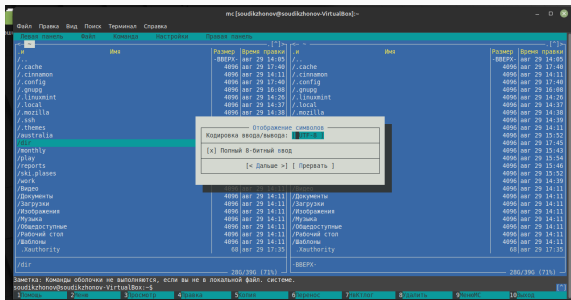


Figure 24: Кодировка символов

# Работа с Midnight Commander

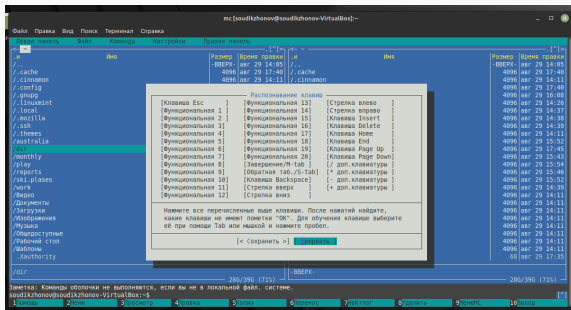


Figure 25: Распознавание клавиш

# Работа с редактором Midnight Commander

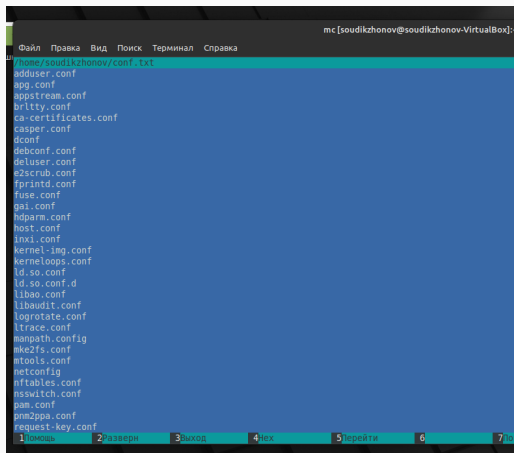


Figure 26: Файл с текстом

# Работа с редактором Midnight Commander

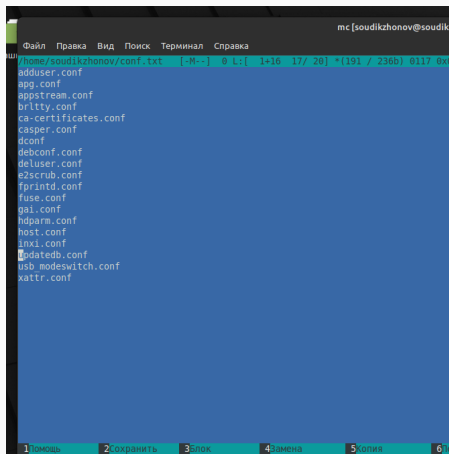


Figure 27: Файл с текстом



# Работа с редактором Midnight Commander

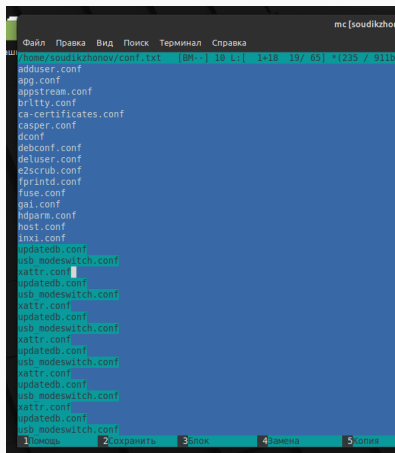


Figure 28: Копирование фрагмента

# Работа с редактором Midnight Commander

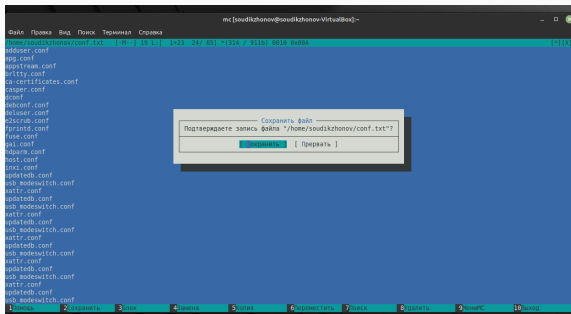


Figure 29: Сохранение

# Работа с редактором Midnight Commander

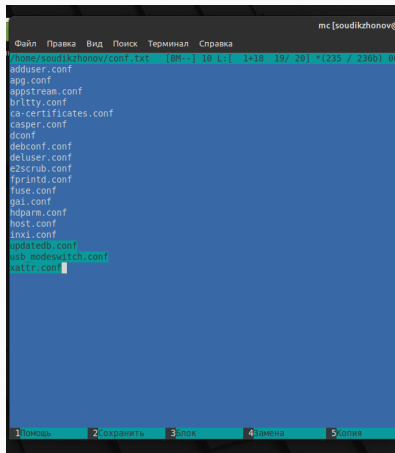
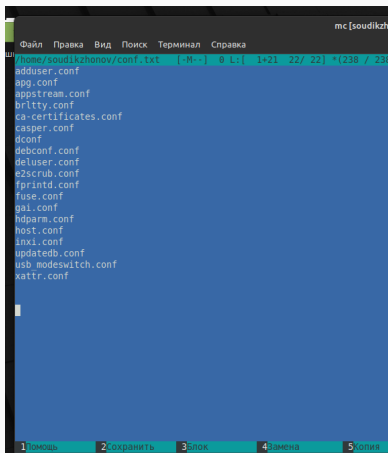


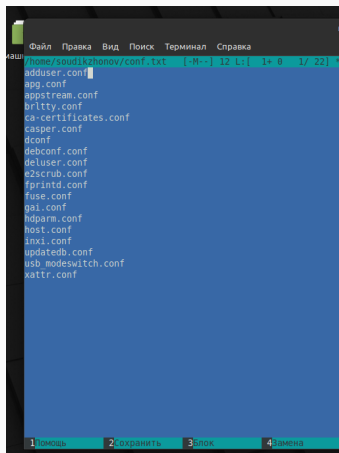
Figure 30: Отмена

# Работа с редактором Midnight Commander



**Figure 31:** Переход в конец файла

# Работа с редактором Midnight Commander



**Figure 32:** Переход в начало файла

## Работа с редактором Midnight Commander

```

m1[soudnikzhov@soudnikzhov-VirtualBox]-
Файл Правка Вид Поиск Терминал Справка
~/src/linux-headers-4.15.0-41/scripts/ldscripts.c [root] 0 L 1 4 0 1 3 3 7 1 0 7 7420 6047 6047 [x]
# Ordered program to connect a binary on stdin to a C include on stdout
# See 1000 Matt Mackall - veyangelini.com
# This software may be used and distributed according to the terms
# of the GNU General Public License, incorporated herein by reference.
/*
#include <stdio.h>

int main(int argc, char *argv[])
{
    int ch, total = 0;

    if (argc > 1)
        printf("stdin: %s\n", argv[1]);
    if (argc > 2) argv[2] = "";

    do {
        printf("%c", ch);
        while ((ch = getchar()) != EOF) {
            total++;
            printf("%02x", ch);
            if (total % 16 == 0)
                break;
            printf("\n");
        } while (ch != EOF);

        if (argc > 1)
            printf("AT: %s\n", argv[1]);
        argv[1] = total;
    } while (1);
}

```

### Figure 33: Файл с программой

## Работа с редактором Midnight Commander

[illegible]

### Figure 34: Цветовыделение синтаксиса

## **Выводы по проделанной работе**

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