

# 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

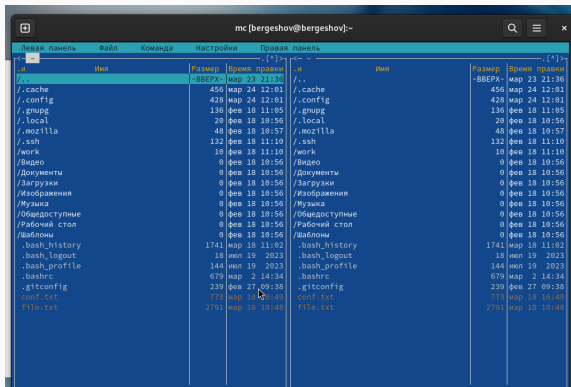


Рис. 1: Запуск mc

# Работа с Midnight Commander

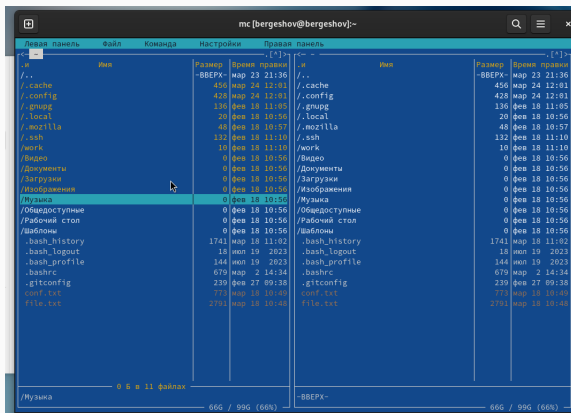


Рис. 2: Выделение

# Работа с Midnight Commander

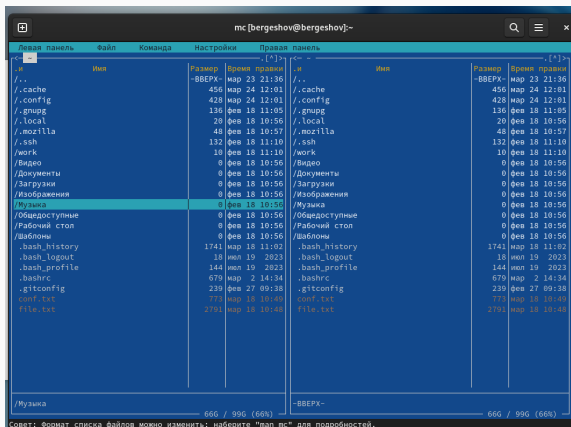


Рис. 3: Отмена



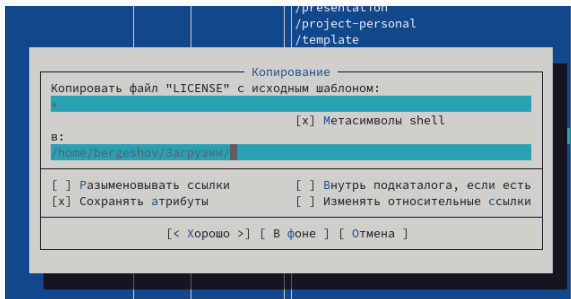


Рис. 4: Копирование

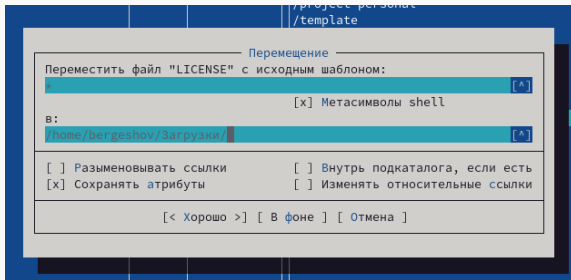


Рис. 5: Перемещение

# Работа с Midnight Commander

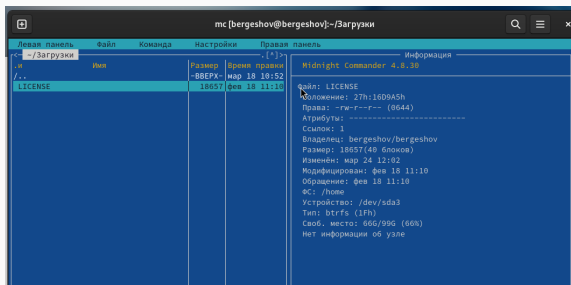


Рис. 6: Информация

# Работа с Midnight Commander

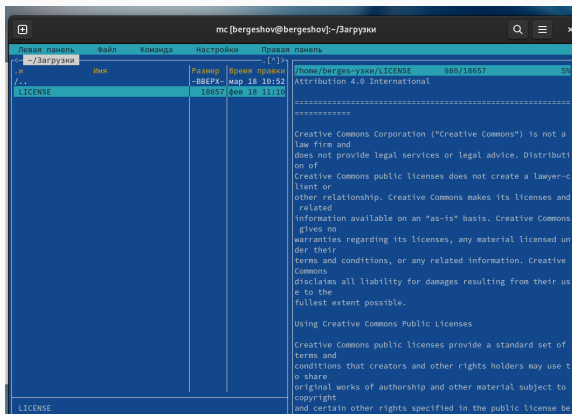


Рис. 7: Быстрый просмотр

# Работа с Midnight Commander

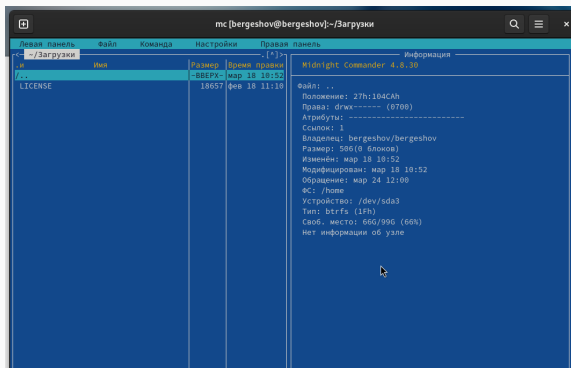


Рис. 8: Информация

# Работа с Midnight Commander

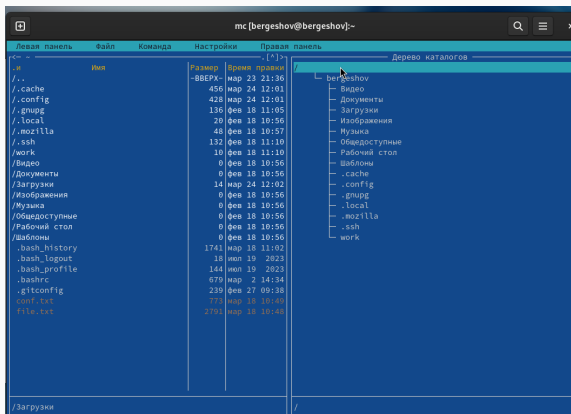
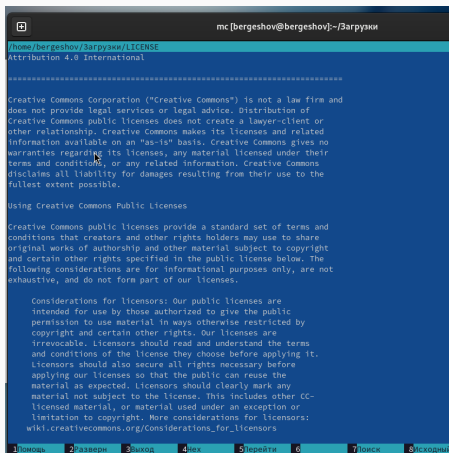


Рис. 9: Дерево каталогов

# Работа с Midnight Commander



The screenshot shows the Midnight Commander (mc) interface. The title bar at the top reads "mc [bergeshov@bergeshov] - ~/Заруки". The current directory is "/home/bergeshov/Заруки/LICENSE". The file being viewed is "Attribution 4.0 International". The main text area displays the Creative Commons Attribution 4.0 International license text. At the bottom, there is a toolbar with icons and labels for various actions: 1. Помощь (Help), 2. Разверн (Expand), 3. Выход (Exit), 4. Нех (Unknown), 5. Перейти (Go), 6. (Empty), 7. Поиск (Search), and 8. Исходный (Original).

```
mc [bergeshov@bergeshov] - ~/Заруки
/home/bergeshov/Заруки/LICENSE
Attribution 4.0 International

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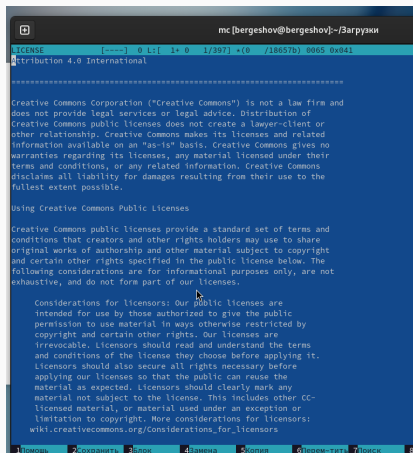
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```

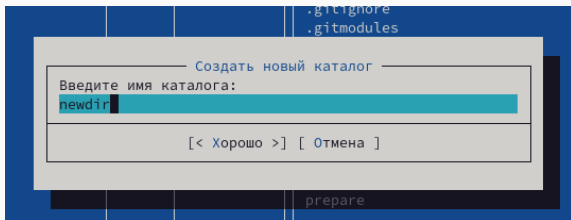
Рис. 10: Просмотр содержимого текстового файла

# Работа с Midnight Commander



**Рис. 11:** Отредактируем содержимое текстового файла без сохранения результатов





**Рис. 12:** Создание каталога

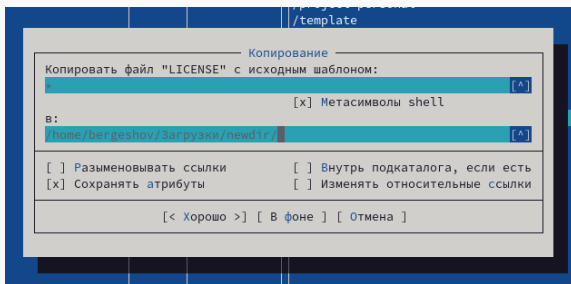


Рис. 13: Копирование в файлов в созданный каталог

# Работа с Midnight Commander

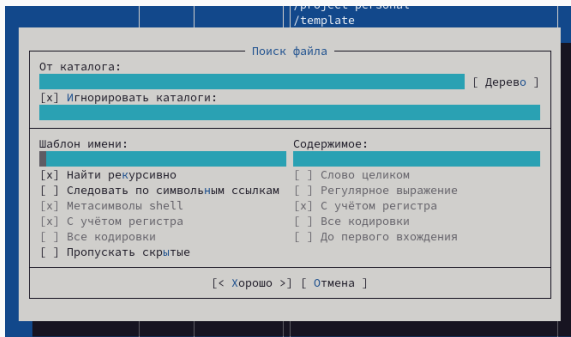


Рис. 14: Поиск файлов

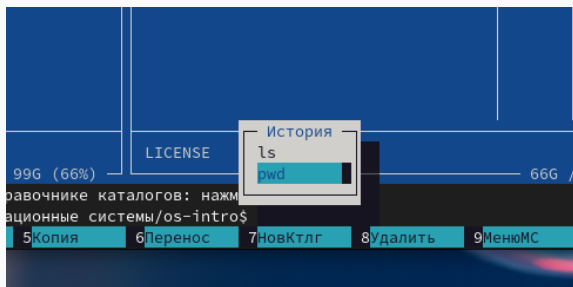
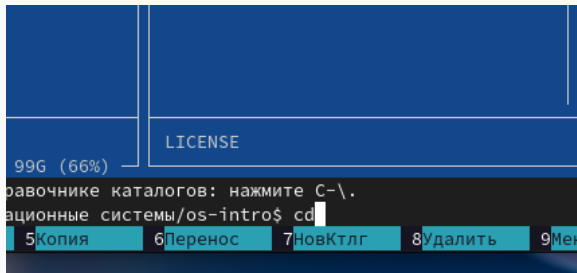


Рис. 15: История команд



**Рис. 16:** Переход в домашний каталог

# Работа с Midnight Commander

```
mc.ext.ini [-----] 0 L: [ 1+ 0 1/1136] *0 /26909b/0035 0x023 [*][X]
# Midnight Commander 4.8 extension file
#
# Warning: The structure of this file has been completely changed with the version 4.0!
#
# All lines starting with # or empty lines are ignored.
#
# IMPORTANT: mc scans this file only upon first use or after editing it using the
# mc "Edit extension file" command (F8-c-e). If you edit this file in any other way
# while mc is running, you will need to press F8-c-e and exit the editor for your
# changes to take effect, or exit mc and start it again.
#
# Section name can be anything with following exceptions:
#   there are two reserved section names:
#       mc.ext.ini
#       Default
#   special name pattern:
#       Include/xxxx
#   See below for more details.
#
# Section [mc.ext.ini] is mandatory. It contains file metadata.
# "Version" parameter is mandatory. It contains the file format version.
#
# Section [Default] is optional. It is applied only if no other match was found.
#
# Sections like [Include/xxxx] can be referenced as "Include=xxxx" from other sections.
# Section [Include/xxxx] can be located as before as after sections that point to it.
#
# Sections are processed from top to bottom, thus the order is important.
# If there are more than one sections with the same name in this file, the first
# section will be used.
#
# [Default] should be a catch-all action and come last.
#
```

Рис. 17: Просмотр файла расширений

A screenshot of the Midnight Commander file menu. The window title is "menu" and it shows a status bar at the top with "1 t: 1\*16 17/378 \*(732 /11821b) 0010 0x00A" and a close button. The menu text is as follows:

```
shell_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)
# %v Run 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
# %if  ditto
# %of  don't quote expanded macro
#####

+ ! t t
| Do something on the current file
| CMD=%(Enter command)
| $CMD %f

+ t t
| Do something on the tagged files
| CMD=%(Enter command)
| for i in %t ; do
```

At the bottom of the window is a toolbar with 10 icons labeled in Russian: 1. Помощь (Help), 2. Сохранить (Save), 3. Поиск (Find), 4. Имена (Names), 5. Скопия (Copy), 6. Перенести (Move), 7. Повтор (Repeat), 8. Удалить (Delete), 9. Ненавс (Not), 10. Выход (Exit).

Рис. 18: Просмотр файла меню

# Работа с Midnight Commander



Рис. 19: Конфигурация



# Работа с Midnight Commander



Рис. 20: Внешний вид

# Работа с Midnight Commander



Рис. 21: Настройки панелей



Рис. 22: Подтверждение



**Рис. 23:** Оформление



**Рис. 24:** Кодировка символов

# Работа с Midnight Commander



Рис. 25: Распознавание клавиш

# Работа с редактором Midnight Commander

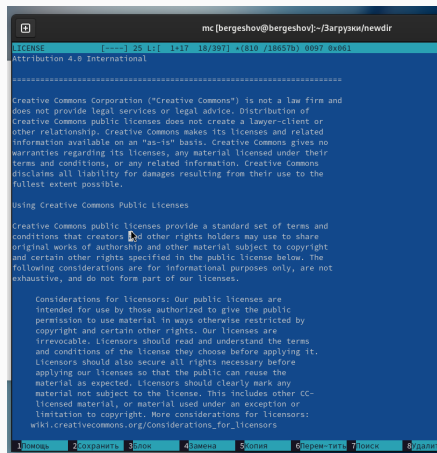
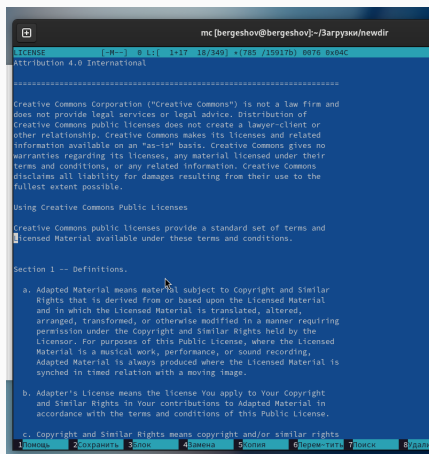


Рис. 26: Файл с текстом

# Работа с редактором Midnight Commander



```
mc [bergeshov@bergeshov]:~/Загрузки/newdir
LICENSE      [-M~]  8 L:  1+17  18/349  +(785 /15917b)  0076 Bx04C
Attribution 4.0 International

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1 Помощь  2 Сохранить  3 Выход  4 Замена  5 Копия  6 Переименовать  7 Поиск  8 Выход
```

Рис. 27: Файл с текстом



# Работа с редактором Midnight Commander

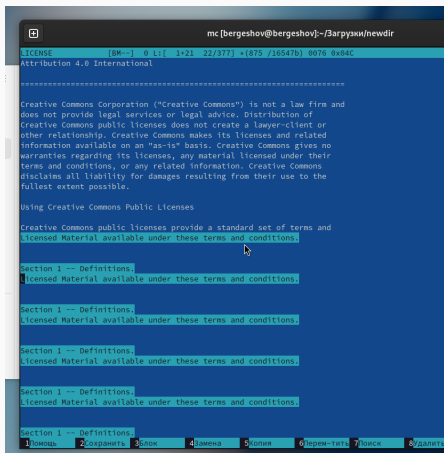


Рис. 28: Копирование фрагмента

# Работа с редактором Midnight Commander

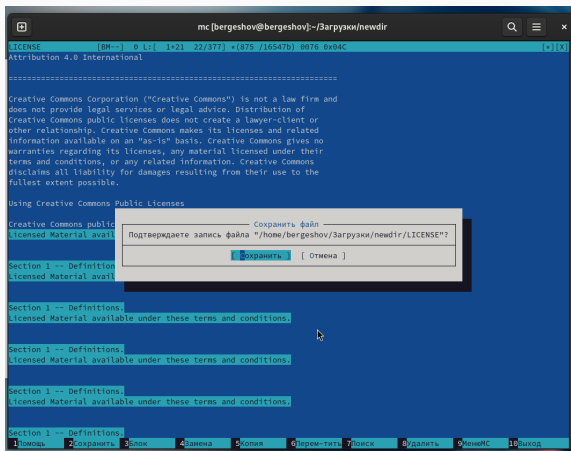


Рис. 29: Сохранение

# Работа с редактором Midnight Commander

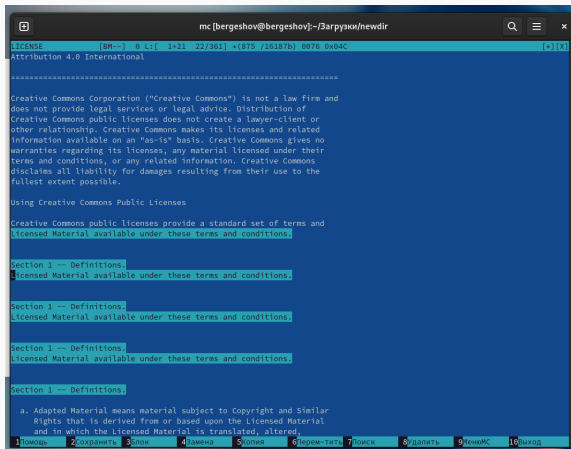
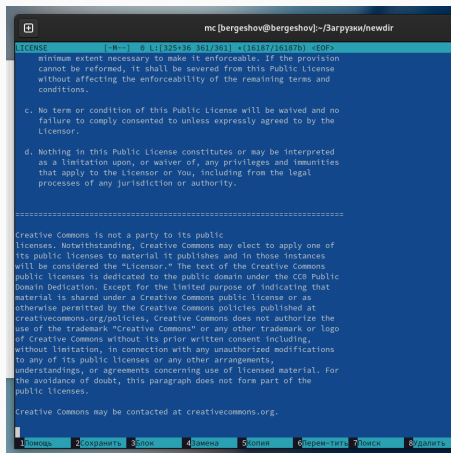


Рис. 30: Отмена

# Работа с редактором Midnight Commander



The screenshot shows the Midnight Commander (mc) file editor interface. The title bar at the top indicates the current file is `mc [bergeshov@bergeshov]:~/Зарядки/newdir`. The main editing area displays the end of a file, with the cursor at the end of the line `minimum extent necessary to make it enforceable. If the provision cannot be reformed, it shall be severed from this Public License without affecting the enforceability of the remaining terms and conditions.`. Below this, there are two more paragraphs of text, each preceded by a letter and a period (c. and d.). The text is a Creative Commons license. At the bottom of the screen, there is a toolbar with eight icons and their corresponding labels: 1. Помощь (Help), 2. Сохранить (Save), 3. Поиск (Find), 4. Меню (Menu), 5. Копия (Copy), 6. Вставить (Paste), 7. Поиск (Find), and 8. Удалить (Delete).

```
mc [bergeshov@bergeshov]:~/Зарядки/newdir
LICENSE [-M--] 0 L:(325+36 361/361) *(16187/16187b) <EOF>
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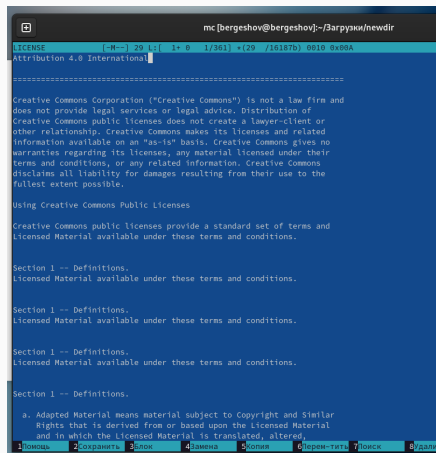
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```

1 Помощь 2 Сохранить 3 Поиск 4 Меню 5 Копия 6 Вставить 7 Поиск 8 Удалить

Рис. 31: Переход в конец файла

# Работа с редактором Midnight Commander



```
mc [bergeshov@bergeshov]:~/Загрузки/newdir
LICENSE [-M--] 20 l: 1+ 0 1/361 *(20 /16187b) 0010 8x00A
Attribution 4.0 International

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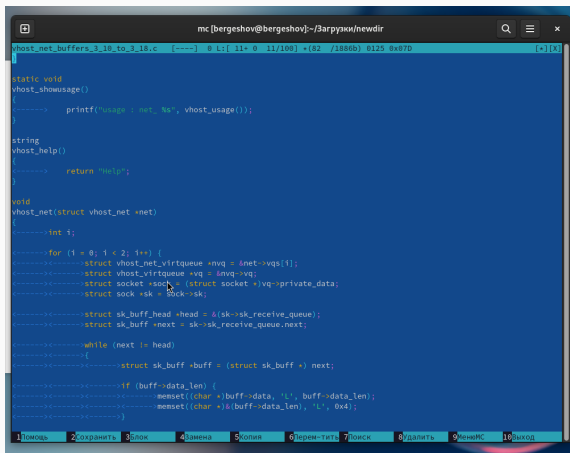
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1Помощь 2Сохранить 3Блок 4Замена 5Копия 6Перем-титы 7Поиск 8Удалить

Рис. 32: Переход в начало файла

# Работа с редактором Midnight Commander



```
mc [bergeshov@bergeshov] ~/Зарядки/newdir
vhost_net_buffers_3_10_to_3_18.c  [----]  0  L: [ 11+ 0  11/100] + (82 /1886b) 0125 0x67D  [+][X]

static void
vhost_showusage()
{
    printf("usage : net, %s", vhost_usage());
}

string
vhost_help()
{
    return "Help";
}

void
vhost_net(struct vhost_net *net)
{
    int i;

    for (i = 0; i < 2; i++) {
        struct vhost_net_virtqueue *nvq = &net->vqs[i];
        struct vhost_virtqueue *vq = &nvq->vq;
        struct socket *sock = (struct socket *)vq->private_data;
        struct sock *sk = sock->sk;

        struct sk_buff_head *head = &(sk->sk_receive_queue);
        struct sk_buff *next = sk->sk_receive_queue.next;

        while (next != head)
        {
            struct sk_buff *buff = (struct sk_buff *) next;

            if (buff->data_len) {
                memset((char *)buff->data, 'L', buff->data_len);
                memset((char *)(&(buff->data_len), 'L', 0x4);
            }
        }
    }
}
```

1Помощь 2Сохранить 3Блок 4Замена 5Копия 6Перенести 7Поиск 8Удалить 9Меню 10Выход

Рис. 33: Файл с программой

# Работа с редактором Midnight Commander

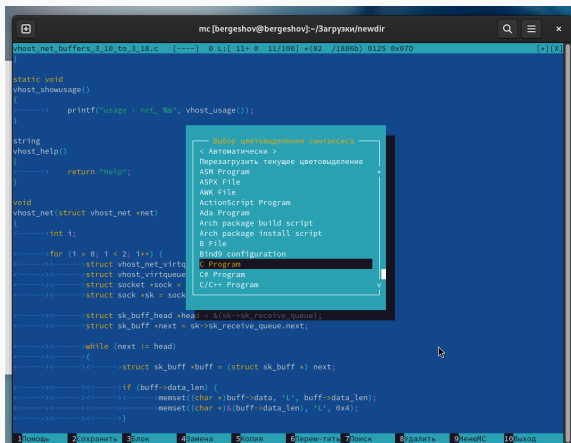


Рис. 34: Цветовыделение синтаксиса

## **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.