

Редактор Emacs

Егина Ангелина НБИбд-01-21¹

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¹Российский Университет Дружбы Народов

Цели и задачи работы

Цель лабораторной работы

Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором Emacs.

1 Изучить возможности редактора Emacs

Процесс выполнения лабораторной работы

Выполнение работы

1. Откроем Emacs.

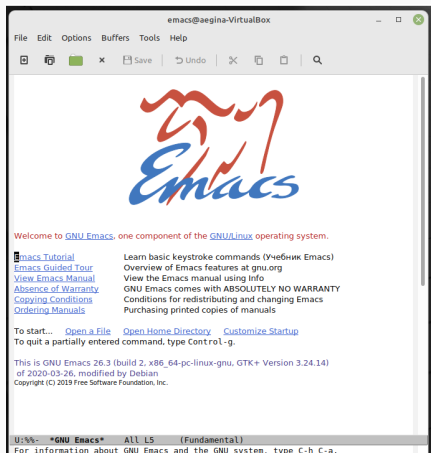
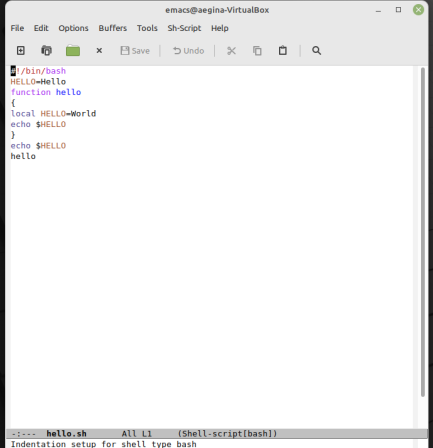


Figure 1: Запуск Emacs

Выполнение работы



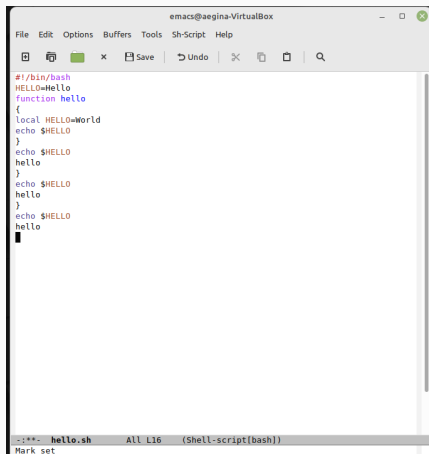
The screenshot shows the Emacs editor interface running inside a VirtualBox. The title bar reads 'emacs@aegina-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a new shell script file named 'hello.sh' with the following content:

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
```

The status bar at the bottom indicates the file path '--- hello.sh', the line and column 'All L1', and the shell type '(Shell-script(bash))'. A message 'Indentation setup for shell type bash' is also visible.

Figure 2: Новый файл

Выполнение работы



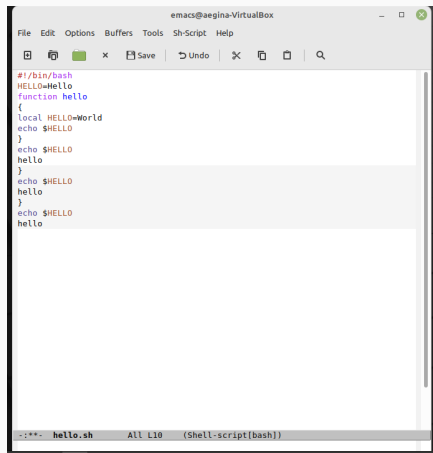
The screenshot shows an Emacs editor window titled "emacs@aegina-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
```

The status bar at the bottom indicates the current file is "hello.sh", the cursor is at line 16, and the buffer is "(Shell-script(bash))". It also shows "Mark set".

Figure 3: Операция вставка

Выполнение работы



The screenshot shows an Emacs editor window titled "emacs@aegina-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The editor buffer contains a shell script with the following content:

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
```

A light gray rectangular highlight is applied to the lines 5 through 10 of the script, which define and call the `hello` function. The status bar at the bottom of the window displays ":-:**~ hello.sh All L10 (Shell-script{bash})".

Figure 4: Выделение блока

Выполнение работы

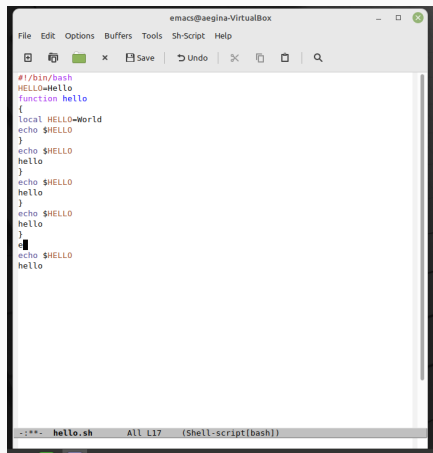
A screenshot of the Emacs editor interface running inside a VirtualBox window titled "emacs@aegina-VirtualBox". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. Below the menu is a toolbar with icons for opening files, saving, undo, redo, and search. The main editing area contains a shell script named "hello.sh" with the following code:

```
#!/bin/bash  
HELLO=Hello  
function hello  
{  
    local HELLO=World  
    echo $HELLO  
}  
echo $HELLO  
hello  
}  
echo $HELLO  
hello  
}  
echo $HELLO  
hello  
}  
echo $HELLO  
hello  
}  
echo $HELLO  
hello  
}  
echo $HELLO  
hello
```

The status bar at the bottom shows the file path as "::-*- hello.sh", the current line as "All L28", and the shell environment as "(Shell-script(bash))".

Figure 5: Копирование блока

Выполнение работы



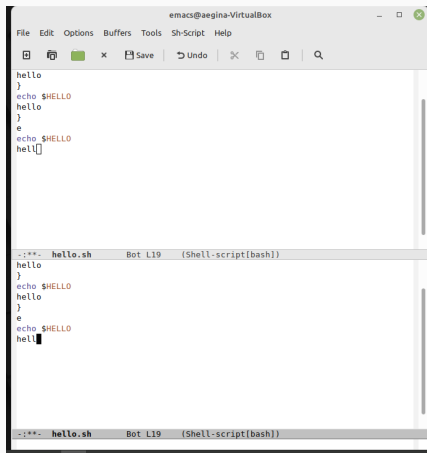
The screenshot shows an Emacs editor window titled 'emacs@aegina-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for opening a file, saving, undo, redo, and search. The main text area displays a shell script with the following content:

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
```

The status bar at the bottom indicates the current file is 'hello.sh', the cursor is at line 17, and the buffer is '(Shell-script(bash))'.

Figure 6: Удаление блока

Выполнение работы



The screenshot shows the Emacs editor interface running inside a VirtualBox. The window title is "emacs@aegina-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area contains a shell script:

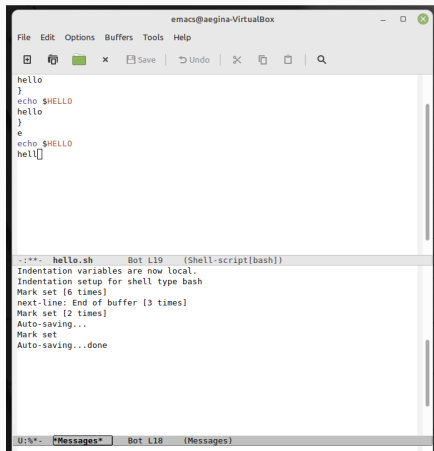
```
hello
}
echo $HELLO
hello
}
e
echo $HELLO
hell
```

Below the script, there are two horizontal panels showing the execution output. Each panel has a header bar with the text "hello.sh Bot L19 (Shell-script[bash])". The output in both panels is:

```
hello
}
echo $HELLO
hello
}
e
echo $HELLO
hell
```

Figure 7: Горизонтальное разделение

Выполнение работы



The screenshot shows the Emacs editor interface. The title bar reads "emacs@aegina-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", and "Help". The toolbar contains icons for file operations and search. The main text area contains a script:

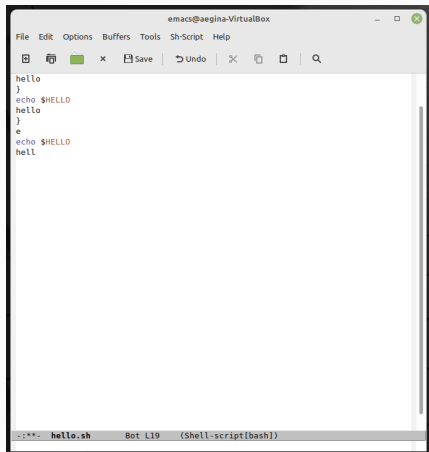
```
hello
}
echo $HELLO
hello
}
e
echo $HELLO
helli
```

Below the text area is a message buffer window titled "U:%*-*Messages*" with a sub-window "Bot L18 (Messages)". It displays the output of the script execution:

```
U:%*-* hello.sh Bot L19 (Shell-script[bash])
Indentation variables are now local.
Indentation setup for shell type bash
Mark set [6 times]
next-line: End of buffer [3 times]
Mark set [2 times]
Auto-saving...
Mark set
Auto-saving...done
```

Figure 8: Переключение буфера

Выполнение работы



The image shows a screenshot of an Emacs editor window titled "emacs@aegina-VirtualBox". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for file operations and editing. The main text area contains a shell script with the following content:

```
hello
}
echo $HELLO
hello
}
e
echo $HELLO
hell
```

At the bottom of the window, there is a status bar showing the current file as "hello.sh", the buffer as "Bot L19", and the shell as "(Shell-script[bash])".

Figure 9: Закроем буфер

Выполнение работы

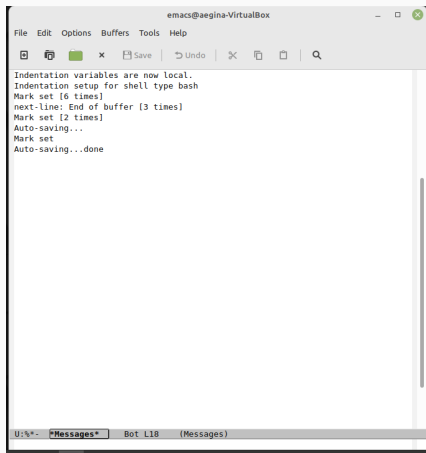


Figure 10: Переключение буфера

Выполнение работы

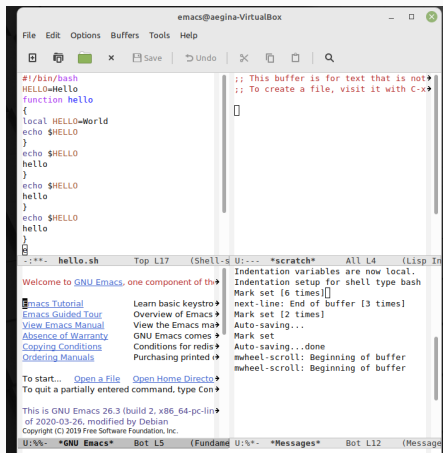
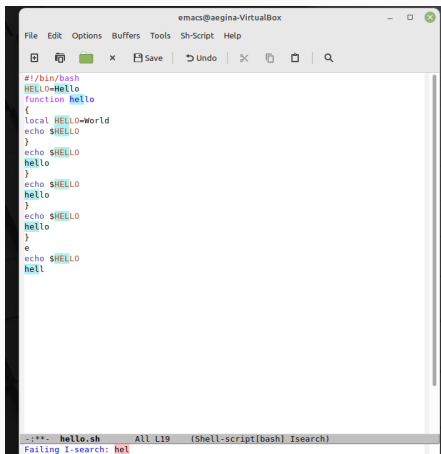


Figure 11: Четыре буфера

Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@aegina-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and search. The main text area displays a shell script with syntax highlighting. The search bar at the bottom shows 'Failing I-search: hel'.

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
e
echo $HELLO
hell
```

At the bottom of the window, the status bar indicates: '.*: hello.sh All L19 (Shell-script(bash) Isearch)'. The search bar at the very bottom shows 'Failing I-search: hel'.

Figure 12: Режим поиска

Выводы по проделанной работе

В данной работе мы познакомились с еще одним редактором операционной системой Linux. Получили практические навыки работы с редактором Emacs.