Exit status, command test, flow control.

Jan Trdlička

Department of Computer Systems Faculty of Information Technology Czech Technical University in Prague

trdlicka@fit.cvut.cz

November 19, 2019

Contents

Exit status

2 Command test and if

3 Loop for

Exit status

- What is the exit status?
- What is the meaning of exit status of the following commands?

```
PASS=/etc/passwd
grep ^root: "$PASS" ; echo $?
```

```
grep ^roooot: "$PASS"; echo $?
```

```
• grep ^root: /etc/foo ; echo $?
```

```
~/.bash_history ; echo $?
```

Exit status

• What is the meaning of exit status of the following commands?

```
winzip; echo $?
```

```
• ls -1R / ^C; echo $?
```

Command test and if

- Create a shell script list1.bash that requires one argument.
 - If the argument is missing or if there are more arguments, then the script prints the following error and exits with exit status 1.

```
Usage: ./list1.bash directory_name
```

 If the argument is a name of a directory and the directory is readable, then the scripts lists its contents by command 1s -la. Otherwise the script prints the following error and exits with exit status 2.

```
./list1.bash: "foo" is not readable directory
```

• Change the access permissions of the script by the following command

```
chmod 755 list1.bash
```

• Run the script by the following command

```
./list1.bash
```



Command test and if

Loop for

- Modify previous shell script such that for every regular readable file in the directory it will print file type (output from command file).
- Example of script output

```
$> .../list2.bash /usr/bin/ | head

/usr/bin/[: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically linked
/usr/bin/411toppm: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically
/usr/bin/7z: POSIX shell script, ASCII text executable
/usr/bin/7za: POSIX shell script, ASCII text executable
/usr/bin/a2p: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically
/usr/bin/aa-easyprof: Python script, ASCII text executable
/usr/bin/abs2rel: Lua script, ASCII text executable
/usr/bin/aclocal: awk script, ASCII text
/usr/bin/aclocal-1.13: awk script, ASCII text
/usr/bin/aconnect: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically
```

Loop for