

Számítógép architektúrák

BSc

1. Gyak.

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Készítette:

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JH3V7T

Miskolc, 2023

4. feladat a.) – Változtassa meg a jelszavát!

```
File Edit View Search Terminal Help
jh3v7t@jh3v7t-VirtualBox: ~
jh3v7t@jh3v7t-VirtualBox:~$ passwd
Changing password for jh3v7t.
Current password:
New password:
Retype new password:
passwd: password updated successfully
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat b.) – Jelenítse meg a rendszer kézikönyv gyűjteményét!

```
File Edit View Search Terminal Help
DASH(1) BSD General Commands Manual DASH(1)
NAME
dash - command interpreter (shell)
SYNOPSIS
dash [-cCefnuvxiqVbP] [+o option_name] [-o option_name] [command_file [argument ...]]
dash -c [-cCefnuvxiqVbP] [+o option_name] [-o option_name] command_string [command_name [argument ...]]
dash -s [-cCefnuvxiqVbP] [+o option_name] [-o option_name] [argument ...]
DESCRIPTION
dash is the standard command interpreter for the system. The current version of dash is in the process of being changed to conform with the POSIX
1003.2 and 1003.2a specifications for the shell. This version has many features which make it appear similar in some respects to the Korn shell, but
it is not a Korn shell clone (see ksh(1)). Only features designated by POSIX, plus a few Berkeley extensions, are being incorporated into this
shell. This man page is not intended to be a tutorial or a complete specification of the shell.
Overview
The shell is a command that reads lines from either a file or the terminal, interprets them, and generally executes other commands. It is the pro-
gram that is running when a user logs into the system (although a user can select a different shell with the chsh(1) command). The shell implements
a language that has flow control constructs, a macro facility that provides a variety of features in addition to data storage, along with built in
history and line editing capabilities. It incorporates many features to aid interactive use and has the advantage that the interpretative language
is common to both interactive and non-interactive use (shell scripts). That is, commands can be typed directly to the running shell or can be put
into a file and the file can be executed directly by the shell.
Invocation
If no args are present and if the standard input of the shell is connected to a terminal (or if the -i flag is set), and the -c option is not
present, the shell is considered an interactive shell. An interactive shell generally prompts before each command and handles programming and com-
mand errors differently (as described below). When first starting, the shell inspects argument 0, and if it begins with a dash '-', the shell is
also considered a login shell. This is normally done automatically by the system when the user first logs in. A login shell first reads commands
from the files ~/.cshrc and ~/.profile if they exist. If the environment variable ENV is set on entry to an interactive shell, or is set in the
.profile of a login shell, the shell next reads commands from the file named in ENV. Therefore, a user should place commands that are to be executed
only at login time in the .profile file, and commands that are executed for every interactive shell inside the ENV file. To set the ENV variable to
some file, place the following line in your .profile of your home directory
ENV=SHOWE/.shinit; export ENV
substituting for ".shinit" any filename you wish.
If command line arguments besides the options have been specified, then the shell treats the first argument as the name of a file from which to read
commands (a shell script), and the remaining arguments are set as the positional parameters of the shell ($1, $2, etc.). Otherwise, the shell reads
commands from its standard input.
Argument List Processing
All of the single letter options that have a corresponding name can be used as an argument to the -o option. The set -o name is provided next to the
single letter option in the description below. Specifying a dash '-' turns the option on, while using a plus '+' disables the option. The following
options can be set from the command line or with the set builtin (described later).
-o allexport Export all variables assigned to.
-c Read commands from the command_string operand instead of from the standard input. Special parameter 0 will be set from the
command_name operand and the positional parameters ($1, $2, etc.) set from the remaining argument operands.
-o noclobber Don't overwrite existing files with ">".
-o errexit If not interactive, exit immediately if any untested command fails. The exit status of a command is considered to be explic-
itly tested if the command is used to control an if, elif, while, or until, or if the command is the left hand operand of an
Manual page sh(1) line 1 (press h for help or q to quit)
```

4. feladat c.) – Írattassa ki a munkajegyzék nevét, amiben éppen dolgozik!

```
File Edit View Search Terminal Help
jh3v7t@jh3v7t-VirtualBox: ~
jh3v7t@jh3v7t-VirtualBox:~$ passwd
Changing password for jh3v7t.
Current password:
New password:
Retype new password:
passwd: password updated successfully
jh3v7t@jh3v7t-VirtualBox:~$ man sh
jh3v7t@jh3v7t-VirtualBox:~$ pwd
/home/jh3v7t
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat d.) – Kik vannak bejelentkezve a rendszerbe? Mióta használják azt? Mióta inaktívak? Milyen parancsot futtatnak éppen?

```
File Edit View Search Terminal Help
jh3v7t@jh3v7t-VirtualBox:~$ passwd
Changing password for jh3v7t.
Current password:
New password:
Retype new password:
passwd: password updated successfully
jh3v7t@jh3v7t-VirtualBox:~$ man sh
jh3v7t@jh3v7t-VirtualBox:~$ pwd
/home/jh3v7t
jh3v7t@jh3v7t-VirtualBox:~$ w
 21:22:01 up 14 min,  1 user,  load average: 0.06, 0.06, 0.02
USER  TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
jh3v7t tty7      :0                21:07   14:37   11.12s  0.21s cinnamon-session --session cinnamon
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat e.) – Jelenítse meg az utoljára bejelentkezett felhasználókat! Jelenítse meg az utolsó 5 bejelentkezést!

```
File Edit View Search Terminal Help
Retype new password:
passwd: password updated successfully
jh3v7t@jh3v7t-VirtualBox:~$ man sh
jh3v7t@jh3v7t-VirtualBox:~$ pwd
/home/jh3v7t
jh3v7t@jh3v7t-VirtualBox:~$ w
 21:22:01 up 14 min,  1 user,  load average: 0.06, 0.06, 0.02
USER  TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
jh3v7t tty7      :0                21:07   14:37   11.12s  0.21s cinnamon-session --session cinnamon
jh3v7t@jh3v7t-VirtualBox:~$ last -5
jh3v7t  tty7      :0                Mon Oct 9 21:07   gone - no logout
reboot  system boot  5.15.0-86-generi Mon Oct 9 21:07   still running
jh3v7t  tty7      :0                Mon Oct 9 18:27 - 19:59 (01:32)
reboot  system boot  5.15.0-76-generi Mon Oct 9 18:26 - 19:59 (01:32)
jh3v7t  tty7      :0                Wed Oct 4 20:47 - 20:51 (00:04)

wtmp begins Wed Oct 4 20:03:21 2023
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat f.) – Írattassa ki azokat a felhasználókat, akik be vannak jelentkezve!

```
File Edit View Search Terminal Help
jh3v7t@jh3v7t-VirtualBox:~$ man sh
jh3v7t@jh3v7t-VirtualBox:~$ pwd
/home/jh3v7t
jh3v7t@jh3v7t-VirtualBox:~$ w
 21:22:01 up 14 min,  1 user,  load average: 0.06, 0.06, 0.02
USER  TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
jh3v7t tty7      :0                21:07   14:37   11.12s  0.21s cinnamon-session --session cinnamon
jh3v7t@jh3v7t-VirtualBox:~$ last -5
jh3v7t  tty7      :0                Mon Oct 9 21:07   gone - no logout
reboot  system boot  5.15.0-86-generi Mon Oct 9 21:07   still running
jh3v7t  tty7      :0                Mon Oct 9 18:27 - 19:59 (01:32)
reboot  system boot  5.15.0-76-generi Mon Oct 9 18:26 - 19:59 (01:32)
jh3v7t  tty7      :0                Wed Oct 4 20:47 - 20:51 (00:04)

wtmp begins Wed Oct 4 20:03:21 2023
jh3v7t@jh3v7t-VirtualBox:~$ who
jh3v7t  tty7      2023-10-09 21:07 (:0)
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat g.) – Kik vannak bejelentkezve, mikor és honnan jelentkezett be?

4. feladat h.) – Ki mikor melyik gépre jelentkezett be és hány perce nem csinál semmit?

4. feladat i.) – Ki van bejelentkezve, a teljes neve, mikor jelentkezett be?

```
File Edit View Search Terminal Help
jh3v7t@jh3v7t-VirtualBox: ~
jh3v7t  tty7      :0          Mon Oct  9 18:27 - 19:59 (01:32)
reboot  system boot  5.15.0-76-generi Mon Oct  9 18:26 - 19:59 (01:32)
jh3v7t  tty7      :0          Wed Oct  4 20:47 - 20:51 (00:04)

wtmp begins Wed Oct  4 20:03:21 2023
jh3v7t@jh3v7t-VirtualBox:~$ who
jh3v7t  tty7      2023-10-09 21:07 (:0)
jh3v7t@jh3v7t-VirtualBox:~$ finger
Login   Name      Tty      Idle   Login Time   Office   Office Phone
jh3v7t  Erdelyi Peter tty7      17    Oct  9 21:07 (:0)
jh3v7t@jh3v7t-VirtualBox:~$ finger jh3v7t
Login: jh3v7t      Name: Erdelyi Peter
Directory: /home/jh3v7t      Shell: /bin/bash
On since Mon Oct  9 21:07 (CEST) on tty7 from :0
      17 minutes 9 seconds idle
No mail.
No Plan.
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat j.) – Írjon egy üzenetet a szomszédjának!

```
File Edit View Search Terminal Help
jh3v7t@jh3v7t-VirtualBox: ~
jh3v7t  tty7      :0          Wed Oct  4 20:47 - 20:51 (00:04)

wtmp begins Wed Oct  4 20:03:21 2023
jh3v7t@jh3v7t-VirtualBox:~$ who
jh3v7t  tty7      2023-10-09 21:07 (:0)
jh3v7t@jh3v7t-VirtualBox:~$ finger
Login   Name      Tty      Idle   Login Time   Office   Office Phone
jh3v7t  Erdelyi Peter tty7      17    Oct  9 21:07 (:0)
jh3v7t@jh3v7t-VirtualBox:~$ finger jh3v7t
Login: jh3v7t      Name: Erdelyi Peter
Directory: /home/jh3v7t      Shell: /bin/bash
On since Mon Oct  9 21:07 (CEST) on tty7 from :0
      17 minutes 9 seconds idle
No mail.
No Plan.
jh3v7t@jh3v7t-VirtualBox:~$ echo "Szia!" | write viktor
write: viktor is not logged in
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat k.) – Nézze meg a date parancs kézikönyvét!

```
File Edit View Search Terminal Help
DATE(1)                                     User Commands                                     DATE(1)

NAME
date - print or set the system date and time

SYNOPSIS
date [OPTION]... [+FORMAT]
date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION
Display the current time in the given FORMAT, or set the system date.
Mandatory arguments to long options are mandatory for short options too.

-d, --date=STRING
    display time described by STRING, not 'now'

--debug
    annotate the parsed date, and warn about questionable usage to stderr

-f, --file=DATEFILE
    like --date; once for each line of DATEFILE

-IFMT], --iso-8601=[FMT]
    output date/time in ISO 8601 format. FMT='date' for date only (the default), 'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated precision. Example: 2006-08-14T02:34:56-06:00

-R, --rfc-email
    output date and time in RFC 5322 format. Example: Mon, 14 Aug 2006 02:34:56 -0600

--rfc-3339=[FMT]
    output date/time in RFC 3339 format. FMT='date', 'seconds', or 'ns' for date and time to the indicated precision. Example: 2006-08-14 02:34:56-06:00

-r, --reference=FILE
    display the last modification time of FILE

-s, --set=STRING
    set time described by STRING

-u, --utc, --universal
    print or set Coordinated Universal Time (UTC)

--help
    display this help and exit

--version
    output version information and exit

FORMAT controls the output. Interpreted sequences are:
%%      a literal %
%a      locale's abbreviated weekday name (e.g., Sun)
%A      locale's full weekday name (e.g., Sunday)
Manual page date(1) line 1 (press h for help or q to quit)
```

4. feladat l.) – Hogyan kell paraméterezni a `date` parancsot ahhoz, hogy csak az évszámot írja ki?

```
jh3v7t@jh3v7t-VirtualBox: ~  
File Edit View Search Terminal Help  
jh3v7t@jh3v7t-VirtualBox:~$ who  
jh3v7t  tty7      2023-10-09 21:07 (:0)  
jh3v7t@jh3v7t-VirtualBox:~$ finger  
Login      Name      Tty      Idle  Login Time  Office      Office Phone  
jh3v7t     Erdelyi Peter  tty7     17 Oct 9 21:07 (:0)  
jh3v7t@jh3v7t-VirtualBox:~$ finger jh3v7t  
Login: jh3v7t      Name: Erdelyi Peter  
Directory: /home/jh3v7t      Shell: /bin/bash  
On since Mon Oct 9 21:07 (CEST) on tty7 from :0  
17 minutes 9 seconds idle  
No mail.  
No Plan.  
jh3v7t@jh3v7t-VirtualBox:~$ echo "Szia!" | write viktor  
write: viktor is not logged in  
jh3v7t@jh3v7t-VirtualBox:~$ man date  
jh3v7t@jh3v7t-VirtualBox:~$ date +%Y  
2023  
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat m.) – Hogyan lehet megszakítani az éppen futó programot?

```
jh3v7t@jh3v7t-VirtualBox: ~  
File Edit View Search Terminal Help  
No Plan.  
jh3v7t@jh3v7t-VirtualBox:~$ echo "Szia!" | write viktor  
write: viktor is not logged in  
jh3v7t@jh3v7t-VirtualBox:~$ man date  
jh3v7t@jh3v7t-VirtualBox:~$ date +%Y  
2023  
jh3v7t@jh3v7t-VirtualBox:~$ ps  
PID TTY      TIME CMD  
2205 pts/0    00:00:00 bash  
2650 pts/0    00:00:00 ps  
jh3v7t@jh3v7t-VirtualBox:~$ kill 2650  
bash: kill: (2650) - No such process  
jh3v7t@jh3v7t-VirtualBox:~$ kill 2205  
jh3v7t@jh3v7t-VirtualBox:~$ ps  
PID TTY      TIME CMD  
2205 pts/0    00:00:00 bash  
2651 pts/0    00:00:00 ps  
jh3v7t@jh3v7t-VirtualBox:~$
```

4. feladat n.) – Törölje a képernyőt!

Törlés előtt:

```
jh3v7t@jh3v7t-VirtualBox: ~  
File Edit View Search Terminal Help  
jh3v7t@jh3v7t-VirtualBox:~$ passwd  
Changing password for jh3v7t.  
Current password:  
New password:  
Retype new password:  
passwd: password updated successfully  
jh3v7t@jh3v7t-VirtualBox:~$ man sh  
jh3v7t@jh3v7t-VirtualBox:~$ pwd  
/home/jh3v7t  
jh3v7t@jh3v7t-VirtualBox:~$ w  
21:22:01 up 14 min, 1 user, load average: 0.06, 0.06, 0.02  
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT  
jh3v7t    tty7     :0             21:07   14:37  11.12s 0.21s cinnamon-session --session cinnamon  
jh3v7t@jh3v7t-VirtualBox:~$ last -5  
jh3v7t    tty7     :0             Mon Oct 9 21:07   gone - no logout  
reboot    system boot  5.15.0-86-generic1 Mon Oct 9 21:07   still running  
jh3v7t    tty7     :0             Mon Oct 9 18:27 - 19:59 (01:32)  
reboot    system boot  5.15.0-76-generic1 Mon Oct 9 18:26 - 19:59 (01:32)  
jh3v7t    tty7     :0             Wed Oct 4 20:47 - 20:51 (00:04)  
wtmp begins Wed Oct 4 20:03:21 2023  
jh3v7t@jh3v7t-VirtualBox:~$ who  
jh3v7t  tty7      2023-10-09 21:07 (:0)  
jh3v7t@jh3v7t-VirtualBox:~$ finger  
Login      Name      Tty      Idle  Login Time  Office      Office Phone  
jh3v7t     Erdelyi Peter  tty7     17 Oct 9 21:07 (:0)  
jh3v7t@jh3v7t-VirtualBox:~$ finger jh3v7t  
Login: jh3v7t      Name: Erdelyi Peter  
Directory: /home/jh3v7t      Shell: /bin/bash  
On since Mon Oct 9 21:07 (CEST) on tty7 from :0  
17 minutes 9 seconds idle  
No mail.  
No Plan.  
jh3v7t@jh3v7t-VirtualBox:~$ echo "Szia!" | write viktor  
write: viktor is not logged in  
jh3v7t@jh3v7t-VirtualBox:~$ man date  
jh3v7t@jh3v7t-VirtualBox:~$ date +%Y  
2023  
jh3v7t@jh3v7t-VirtualBox:~$ ps  
PID TTY      TIME CMD  
2205 pts/0    00:00:00 bash  
2650 pts/0    00:00:00 ps  
jh3v7t@jh3v7t-VirtualBox:~$ kill 2650  
bash: kill: (2650) - No such process  
jh3v7t@jh3v7t-VirtualBox:~$ kill 2205  
jh3v7t@jh3v7t-VirtualBox:~$ ps  
PID TTY      TIME CMD  
2205 pts/0    00:00:00 bash  
2651 pts/0    00:00:00 ps  
jh3v7t@jh3v7t-VirtualBox:~$ clear
```

Törlés után:

