Operációs rendszerek BSc

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Készítette:

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A. feladat – Linux-terminál

feladat - Jegyzék szerkezet

Megvalósítás:

```
Terminal
  File Edit View Search Terminal Help
holczer@lab101-02 ~ $ ls
                      Downloads Maildir
                                                               Pictures
                                                                                                                while2.sh
                                                                                          szg_arch
                                            Music
                                                               Public
                                                                                          Templates
Desktop
                       fu
Documents lista.txt oraiwp p
holczer@lab101-02 ~ $ cd Desktop
                                                               public_html Videos
holczer@lab101-02 ~/Desktop $ mkdir C0LLER
holczer@lab101-02 ~/Desktop $ cd COLLER
holczer@lab101-02 ~/Desktop/COLLER $ mkdir bush
holczer@lab101-02 ~/Desktop/COLLER $ cd bush
holczer@lab101-02 ~/Desktop/COLLER/bush $ mkdir banan
holczer@lab101-02 ~/Desktop/COLLER/bush $ mkdir mogyoro
holczer@lab101-02 ~/Desktop/COLLER/bush $ mkdir mogyord
holczer@lab101-02 ~/Desktop/COLLER/bush $ mkdir barack
holczer@lab101-02 ~/Desktop/COLLER/bush $ cd COLLER
bash: cd: COLLER: No such file or directory
holczer@lab101-02 ~/Desktop/COLLER/bush $ cd ..
holczer@lab101-02 ~/Desktop/COLLER $ mkdir tree
holczer@lab101-02 ~/Desktop/COLLER $ cd tree
holczer@lab101-02 ~/Desktop/COLLER/tree $ mkdir korte
holczer@lab101-02 ~/Desktop/COLLER/tree $ cd ..
holczer@lab101-02 ~/Desktop/COLLER $ mkdir land
holczer@lab101-02 ~/Desktop/COLLER $ cd land
holczer@lab101-02 ~/Desktop/COLLER/land $ mkdir szeder
holczer@lab101-02 ~/Desktop/COLLER/land $ mkdir kokusz
holczer@lab101-02 ~/Desktop/C0LLER/land $
```

2. feladat - Másolatok készítése

```
File Edit View Search Terminal Help

fails, or if --reflink=auto is specified, fall back to a standard copy.

The backup suffix is '~', unless set with --suffix or SIMPLE_BACKUP_SUFFIX.
The version control method may be selected via the --backup option or through the VERSION_CONTROL environment variable. Here are the values:

none, off never make backups (even if --backup is given)
numbered, t make numbered backups
existing, nil numbered if numbered backups exist, simple otherwise simple, never always make simple backups

As a special case, cp makes a backup of SOURCE when the force and backup options are given and SOURCE and DEST are the same name for an existing, regular file.

GNU coreutils online help: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/cp</a>
or available locally via: info '(coreutils) cp invocation'
holczer@labi01-02 -/Desktop/COLLER/land $ cd HOME
bash: cd: HOME: No such file or directory
holczer@labi01-02 -/Desktop/COLLER/land $ cd ..
holczer@labi01-02 -/Desktop/COLLER/land $ cd ..
holczer@labi01-02 -/Desktop $ LS
The program 'LS' is currently not installed. To run 'LS' please ask your administrator to install the p ackage 's1'
holczer@labi01-02 -/Desktop $ Cp - R -/Desktop/COLLER/land/szeder -/Desktop/COLLER/tree
holczer@labi01-02 -/Desktop $ cp - R -/Desktop/COLLER/bush/banan -/Desktop/COLLER/tree
```

3. feladat – Áthelyezések

Megvalósítás:

```
File Edit View Search Terminal Help

The backup suffix is '-', unless set with --suffix or SIMPLE_BACKUP_SUFFIX.
The version control method may be selected via the --backup option or through the VERSION_CONTROL environment variable. Here are the values:

none, off never make backups (even if --backup is given)
numbered, t make numbered backups
existing, nil numbered if numbered backups exist, simple otherwise
simple, never always make simple backups
existing are given and SOURCE and DEST are the same name for an existing,
regular file.

GNU coreutils online help: <a href="http://www.gnu.org/software/coreutils/>Full documentation at: <a href="http://www.gnu.org/software/coreutils/>Full documentation at: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/>Full documentation at: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/>Full documentation at: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/</a>
Full documentation at: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/cp</a>

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Full documentation at: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/cp</a>

Full documentation at: <a href="http://www.gnu.org/software/coreutils
```

4. feladat – Katalógus törlés, szöveges állomány létrehozása

```
File Edit View Search Terminal Help

regular file.

GNU coreutils online help: <a href="http://www.gnu.org/software/coreutils/">http://www.gnu.org/software/coreutils/</a>

Full documentation at: <a href="http://www.gnu.org/software/coreutils/cp">http://www.gnu.org/software/coreutils/cp</a>

or available locally via: info '(coreutils) cp invocation'

holczer@labi01-02 -/Desktop/COLLER/land $ cd HOME

bash: cd: HOME: No such file or directory

holczer@labi01-02 -/Desktop/COLLER/land $ ls

kokusz szeder

holczer@labi01-02 -/Desktop/COLLER/land $ cd ...

holczer@labi01-02 -/Desktop/COLLER/land $ cd ...

holczer@labi01-02 -/Desktop $ ls

The program 'LS' is currently not installed. To run 'LS' please ask your administrator to install the p

ackage 'sl'

holczer@labi01-02 -/Desktop $ cp -R -/Desktop/COLLER/land/szeder -/Desktop/COLLER/tree

holczer@labi01-02 -/Desktop $ cp -R -/Desktop/COLLER/bush/banan -/Desktop/COLLER/tree

holczer@labi01-02 -/Desktop $ mw -/Desktop/COLLER/bush/banan -/Desktop/COLLER/tree

holczer@labi01-02 -/Desktop $ mw -/Desktop/COLLER/land/kokusz -/Desktop/COLLER/tree

holczer@labi01-02 -/Desktop $ mr -r land

rm: cannot remove 'land': No such file or directory

holczer@labi01-02 -/Desktop 'cOLLER * m -r land

holczer@labi01-02 -/Desktop/COLLER * m -r land

holczer@labi01-02 -/Desktop/COLLER * s d bush

holczer@labi01-02 -/Desktop/COLLER * s d bush

holczer@labi01-02 -/Desktop/COLLER/bush/banan $ cd ...

holczer@labi01-02 -/Desktop/COLLER/tree $ echo > listing

holczer@labi01-02 -/Desktop/COLLER/tree $ echo > listing
```

5. feladat – Szöveges állományokba írás

Megvalósítás:

```
File Edit View Search Terminal Help

holczer@lab101-02 ~/Desktop/COLLER/bush $ cd banan
holczer@lab101-02 ~/Desktop/COLLER/bush $ cd banan
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ echo >description
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ cd ..
holczer@lab101-02 ~/Desktop/COLLER/bush $ cd ..
holczer@lab101-02 ~/Desktop/COLLER/bush $ cd ..
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo alma >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo alma >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo barack >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo barack >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo seresznye >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo meggy >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ echo meggy >>listing
holczer@lab101-02 ~/Desktop/COLLER/tree $ do ..
holczer@lab101-02 ~/Desktop/COLLER/tree $ do ..
holczer@lab101-02 ~/Desktop/COLLER/tree $ do ..
holczer@lab101-02 ~/Desktop/COLLER/bush $ cd banan
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ echo A málna piros >>description
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ echo A málna finom >>description
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ echo A málna gy gyümölcs >description
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ echo A málna piros >>description
holczer@lab101-02 ~/Desktop/COLLER/bush/banan $ echo A málna piros >>descr
```

6. feladat – Katalógus listázása (alkatalógusokkal)

7. feladat – Olyan file-ok, amelyek nevének második betűje e

Megvalósítás:

```
Terminal
File Edit View Search Terminal Help
holczer@lab101-04 ~ $ find . -name ?e\* -print
./Desktop
./Desktop/a/obj/Debug
./Desktop/a/bin/Debug
./Desktop/COLLER/bush/banan/description
./Templates
./.config/caja/desktop-metadata
./.config/menus
./.config/codeblocks/default.conf
./.config/abiword/templates
./.config/libreoffice/4/user/config/soffice.cfg/modules/swriter/menubar
./.config/libreoffice/4/user/config/soffice.cfg/modules/sdraw/menubar
./.config/libreoffice/4/user/extensions/shared/registry
./.config/libreoffice/4/user/extensions/bundled/registry
./.config/libreoffice/4/user/extensions/tmp/registry
./.config/libreoffice/4/user/uno_packages/cache/registry
./.config/libreoffice/4/user/registrymodifications.xcu
./.config/libreoffice/4/user/pack/registrymodifications.pack
./.config/xed
./.dbus/session-bus
./.local/share/keyrings
 ./.local/share/recently-used.xbel
./.local/share/webkitgtk
```

8. feladat – Fájl olvashatóvá tétele

```
File Edit View Search Terminal Help

Desktop/COLLER/tree/barack:

Desktop/COLLER/tree/kokusz:

Desktop/COLLER/tree/korte:

Desktop/images:
A1.png A2.png A3.png A4.png A5.png A6.png

Templates:
holczer@lab101-04 ~ $ chmod 0+r listing
chmod: invalid mode: '0+r'
Try 'chmod --help' for more information.
holczer@lab101-04 ~ $ chmod o+r listing
chmod: cannot access 'listing': No such file or directory
holczer@lab101-04 ~ $ cd desktop
bash: cd: desktop: No such file or directory
holczer@lab101-04 ~ $ cd Desktop
holczer@lab101-04 ~ /Desktop/COLLER $ cd tree
holczer@lab101-04 ~ /Desktop/COLLER/tree $ chmod o+r listing
holczer@lab101-04 ~ /Desktop/COLLER/tree $ chmod o+r listing
holczer@lab101-04 ~ /Desktop/COLLER/tree $ chmod o+r listing
```

9. feladat – Merevlemezen foglalt hely kilistázása (alkatalógus nélkül)

Megvalósítás:

```
Terminal
File Edit View Search Terminal Help
holczer@lab101-04 ~/Desktop $ du COLLER
        COLLER/bush/banan
        C0LLER/bush/mogyoro
        COLLER/bush
        COLLER/tree/korte
        COLLER/tree/szeder
        COLLER/tree/banan
        COLLER/tree/barack
        COLLER/tree/kokusz
        COLLER/tree
        COLLER
holczer@lab101-04 ~/Desktop $ man du
holczer@lab101-04 ~/Desktop $ man du
holczer@lab101-04 ~/Desktop $ du --max-depth=0 C0LLER
        COLLER
holczer@lab101-04 ~/Desktop $ cd COLLER
holczer@lab101-04 ~/Desktop/COLLER $ cd tree
holczer@lab101-04 ~/Desktop/COLLER/tree $ sort listing
barack
cseresznye
körte
holczer@lab101-04 ~/Desktop/C0LLER/tree $
```

10.feladat – ABC-szerinti tartalomrendezés egy file-ban

```
Terminal
 File Edit View Search Terminal Help
holczer@lab101-04 ~/Desktop $ du COLLER
        COLLER/bush/banan
         COLLER/bush/mogyoro
         COLLER/bush
        COLLER/tree/korte
         COLLER/tree/szeder
         COLLER/tree/banan
COLLER/tree/barack
         COLLER/tree/kokusz
         COLLER/tree
         COLLER
holczer@lab101-04 ~/Desktop $ man du
holczer@lab101-04 ~/Desktop $ man du
holczer@lab101-04 ~/Desktop $ du --max-depth=0 C0LLER
         COLLER
holczer@lab101-04 ~/Desktop $ cd C0LLER
holczer@lab101-04 ~/Desktop/C0LLER $ cd tree
holczer@lab101-04 ~/Desktop/C0LLER/tree $ sort listing
alma
barack
cseresznye
körte
meggy
holczer@lab101-04 ~/Desktop/COLLER/tree $
```

11.feladat – File-ban szereplő szavak megszámolása

```
Terminal
                                                                                                                                               - + \times
 File Edit View Search Terminal Help
               COLLER/tree/szeder
COLLER/tree/banan
                COLLER/tree/barack
               COLLER/tree/kokusz
COLLER/tree
Θ
               C0LLER
holczer@lab101-04 ~/Desktop $ man du
holczer@lab101-04 ~/Desktop $ man du
holczer@lab101-04 ~/Desktop $ du --max-depth=0 C0LLER
               C0LLER
holczer@lab101-04 ~/Desktop $ cd C0LLER
holczer@lab101-04 ~/Desktop/C0LLER $ cd tree
holczer@lab101-04 ~/Desktop/C0LLER/tree $ sort listing
alma
barack
 cseresznye
körte
meggy
holczer@lab101-04 ~/Desktop/COLLER/tree $ cd ..
holczer@lab101-04 ~/Desktop/COLLER $ cd bush
holczer@lab101-04 ~/Desktop/COLLER/bush $ cd banan
holczer@lab101-04 ~/Desktop/COLLER/bush/banan $ wc -w description
holczer@lab101-04 ~/Desktop/C0LLER/bush/banan $
```

B. feladat – GTKStressTest – Grafikus rendszer monitorozó

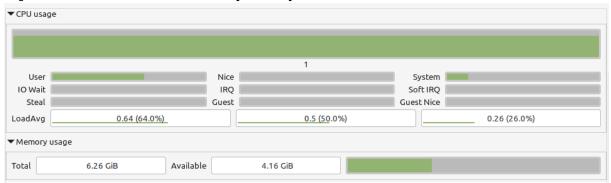
1. kijelző – Tesztelő beállításai (tesztek módja, ideje, magok száma)

		500			
CPU: All methods	5	▼ 5 mins	▼ Workers: Auto	▼	Stop
Elapsed	1:01:17	Bogo Ops	BOPSUST		

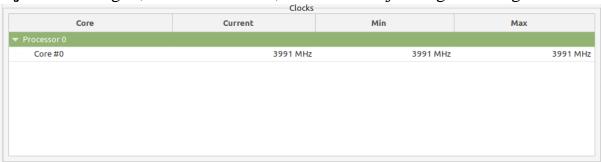
2. kijelző – CPU, memória és az alaplap adatai

▼ Processo	Г									
				Proces	sor#0 ▶					
Nar	me					Cores	1			
Specificati	ion	AMD FX(tm)-8350 Eight-Core Proce					Т	hreads	1	
Packa	age	Microcode		ocode	0x6000626		Bog	gomips	7982.64	
Fam	nily	21 (15h)	Model		2 (2h)		Stepping	oing 0 (0h)		
Fla	ags	MMX, (+), SSE(1, 2, 3, 3S, 4.1, 4.2, 4A), AVX(1), AES, CLMUL, x86-64 More								
Bu	ıgs	Fxsave Leak, Null Seg, Spec Store Bypass, Spectre V1, Spectre V2, Sysret Ss Attrs More					Моге			
▼ Cache										
L1 Data	1 x 16 KiB (16 KiB) 4-way 64 sets									
L1 Inst.		1 x 64 KiB (64 KiB)			2-way				512 sets	
Level 2		1 x 2 MiB (2 MiB)			16-way			2048 sets		
Level 3		1 x 8 MiB (8 MiB)				64-way			2048 sets	
▼ Motherboard										
Vendor	Vendor Oracle Corporation			Vendor	BIOS innotek GmbH					
Model		VirtualBox			Version			VirtualBox		
Revision		1.2			Date		12/01/2006			

3. kijelző – Aktuális értékek, melyek folyamatosan változnak



4. kijelző – A magok, szálak minimális, maximális és jelenlegi sebessége



5. kijelző – Hőfok, Amper és Volt számok

Hardware Monitor					
Core	Current	Min	Max		