

Operációs rendszerek BSc

3. Gyak.

2022. 02. 23.

Készítette:

Nagy Máté Bsc

Szak Programtervező
informatikus

Neptunkód U3ROFS

Miskolc, 2022

1.feladat

1) Létrehoztam a mappákat az mkdir parancsal

```
Activities Terminal febr 23 12:15
mate@mate-VirtualBox: ~/Desktop/USROFS/land

mate@mate-VirtualBox:~$ cd Desktop
mate@mate-VirtualBox:~/Desktop$ mkdir USROFS
mate@mate-VirtualBox:~/Desktop$ cd USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ mkdir bush
mate@mate-VirtualBox:~/Desktop/USROFS$ mkdir tree
mate@mate-VirtualBox:~/Desktop/USROFS$ mkdir land
mate@mate-VirtualBox:~/Desktop/USROFS$ cd bush
mate@mate-VirtualBox:~/Desktop/USROFS/bush$ mkdir banan
mate@mate-VirtualBox:~/Desktop/USROFS/bush$ mkdirogyoro
mate@mate-VirtualBox:~/Desktop/USROFS/bush$ mkdir barach
mate@mate-VirtualBox:~/Desktop/USROFS/bush$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ cd tree
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ mkdir korte
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ cd -

Command 'cd-' not found, did you mean:
  command 'cdl' from deb cdo (1.9.9-rc1-1)
  command 'cdw' from deb cdw (0.8.1-1build4)
  command 'cde' from deb cde (0.1+git9-g55ies4d-1.1build1)
  command 'cdp' from deb trpas (0.10-7)
  command 'cdo' from deb cdo (1.9.9-rc1-1)
  command 'cds' from deb cds (0.1-4)
  command 'cdb' from deb tinycdb (0.78build1)

Try: sudo apt install <deb name>

mate@mate-VirtualBox:~/Desktop/USROFS/tree$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ cd land
mate@mate-VirtualBox:~/Desktop/USROFS/land$ mkdir szeder
mate@mate-VirtualBox:~/Desktop/USROFS/land$ mkdir kokusz
mate@mate-VirtualBox:~/Desktop/USROFS/land$
```

A tree parancsal kilistáztam a mappákat

```
Activities Terminal febr 23 12:17
mate@mate-VirtualBox: ~/Desktop/USROFS

command 'cdl' from deb cdo (1.9.9-rc1-1)
command 'cdw' from deb cdw (0.8.1-1build4)
command 'cde' from deb cde (0.1+git9-g55ies4d-1.1build1)
command 'cdp' from deb trpas (0.10-7)
command 'cdo' from deb cdo (1.9.9-rc1-1)
command 'cds' from deb cds (0.1-4)
command 'cdb' from deb tinycdb (0.78build1)

Try: sudo apt install <deb name>

mate@mate-VirtualBox:~/Desktop/USROFS/tree$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ cd land
mate@mate-VirtualBox:~/Desktop/USROFS/land$ mkdir szeder
mate@mate-VirtualBox:~/Desktop/USROFS/land$ mkdir kokusz
mate@mate-VirtualBox:~/Desktop/USROFS/land$ sudo apt-get install tree
[sudo] password for mate:
E: Could not get lock /var/lib/dpkg/lock-frontent. It is held by process 3704 (unattended-upgr)
N: Be aware that removing the lock file is not a solution and may break your system.
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontent), is another process using it?
mate@mate-VirtualBox:~/Desktop/USROFS/land$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ tree -s
tree
├── bush
│   ├── banan
│   ├── barach
│   └──ogyoro
├── land
│   ├── kokusz
│   └── szeder
└── tree
    └── korte

0 directories
mate@mate-VirtualBox:~/Desktop/USROFS$
```

2) A mappákat a cp -r parancsal másoltam

```
Activities Terminal febr 23 12:23
mate@mate-VirtualBox: ~/Desktop/USROFS

Try: sudo apt install <deb name>

mate@mate-VirtualBox:~/Desktop/USROFS$ tree -s
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ cd land
mate@mate-VirtualBox:~/Desktop/USROFS/land$ mkdir szeder
mate@mate-VirtualBox:~/Desktop/USROFS/land$ mkdir kokusz
mate@mate-VirtualBox:~/Desktop/USROFS/land$ sudo apt-get install tree
(sudo) password for mate:
E: Could not get lock /var/lib/dpkg/lock-frontent. It is held by process 3704 (unattended-upgr)
N: Be aware that removing the lock file is not a solution and may break your system.
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontent), is another process using it?
mate@mate-VirtualBox:~/Desktop/USROFS/land$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ tree -s

Command 'tree' not found, but can be installed with:

sudo snap install tree # version 1.8.0+pkg-3fd6, or
sudo apt install tree # version 1.8.0-1

See 'snap info tree' for additional versions.

mate@mate-VirtualBox:~/Desktop/USROFS$ sudo snap install tree
Download snap "tree" (18) from channel "stable"
Download snap "tree" (18) from channel "stable"
ron channel Download snap "tree" (18) from channel "stable"
tree 1.8.0+pkg-3fd6 from 林博仁 (Buo-ren, lin) (brlin) installed
mate@mate-VirtualBox:~/Desktop/USROFS$ tree -d
locales-launch: Data of en_US locale not found, generating, please wait...
locales-launch: Data of hu_HU locale not found, generating, please wait...

├── bush
│   ├── banan
│   ├── barack
│   └── mogyoro
├── land
│   ├── kokusz
│   └── szeder
├── tree
└── korte

9 directories
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r /land/szeder /tree/
cp: cannot stat '/land/szeder': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r /land/szeder/ /tree/
cp: cannot stat '/land/szeder/': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r /land/szeder tree
cp: cannot stat '/land/szeder': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r land/szeder tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r bush/banan tree
mate@mate-VirtualBox:~/Desktop/USROFS$
```

3) Áthelyeztem a mappákat a move parancsal

```
Activities Terminal febr 23 12:27
mate@mate-VirtualBox: ~/Desktop/USROFS

mate@mate-VirtualBox:~/Desktop/USROFS$ tree -s

Command 'tree' not found, but can be installed with:

sudo snap install tree # version 1.8.0+pkg-3fd6, or
sudo apt install tree # version 1.8.0-1

See 'snap info tree' for additional versions.

mate@mate-VirtualBox:~/Desktop/USROFS$ sudo snap install tree
Download snap "tree" (18) from channel "stable"
Download snap "tree" (18) from channel "stable"
ron channel Download snap "tree" (18) from channel "stable"
tree 1.8.0+pkg-3fd6 from 林博仁 (Buo-ren, lin) (brlin) installed
mate@mate-VirtualBox:~/Desktop/USROFS$ tree -d
locales-launch: Data of en_US locale not found, generating, please wait...
locales-launch: Data of hu_HU locale not found, generating, please wait...

├── bush
│   ├── banan
│   ├── barack
│   └── mogyoro
├── land
│   ├── kokusz
│   └── szeder
├── tree
└── korte

9 directories
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r /land/szeder /tree/
cp: cannot stat '/land/szeder': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r /land/szeder/ /tree/
cp: cannot stat '/land/szeder/': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r /land/szeder tree
cp: cannot stat '/land/szeder': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r land/szeder tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cp -r bush/banan tree
mate@mate-VirtualBox:~/Desktop/USROFS$ mv -r bush/barack tree
mv: invalid option -- 'r'
Try 'mv --help' for more information.
mate@mate-VirtualBox:~/Desktop/USROFS$ mv bush/barack tree
mv: cannot stat 'bush/barack': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ mv bush/barack tree/
mv: cannot stat 'bush/barack': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ mv -s bush/barack tree/
mv: invalid option -- 's'
Try 'mv --help' for more information.
mate@mate-VirtualBox:~/Desktop/USROFS$ mv bush/barack tree
mv: cannot stat 'bush/barack': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ mv bush/barack tree
mate@mate-VirtualBox:~/Desktop/USROFS$ mv bush/banan tree
mate@mate-VirtualBox:~/Desktop/USROFS$
```

[illegible]

6.)Az ls parancsal listáztam a mappákat

```
mate@mate-VirtualBox: ~/Desktop/USROFS$ cd USROFS/
mate@mate-VirtualBox: ~/Desktop/USROFS$ cd tree
mate@mate-VirtualBox: ~/Desktop/USROFS/tree$ echo a|na >> listing.txt
mate@mate-VirtualBox: ~/Desktop/USROFS/tree$ echo banan >> listing.txt
mate@mate-VirtualBox: ~/Desktop/USROFS/tree$ echo korte >> listing.txt
mate@mate-VirtualBox: ~/Desktop/USROFS/tree$ echo nakk >> listing.txt
mate@mate-VirtualBox: ~/Desktop/USROFS/tree$ echo valami|bogyó >> listing.txt
mate@mate-VirtualBox: ~/Desktop/USROFS/tree$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -s
total 12
4 bush  4 land  4 tree
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls
bush land tree
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -l
total 12
drwxrwxr-x 4 mate mate 4096 febr  23 12:32 bush
drwxrwxr-x 3 mate mate 4096 febr  23 12:30 land
drwxrwxr-x 6 mate mate 4096 febr  23 12:34 tree
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -r
tree land bush
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -e
ls: invalid option -- 'e'
Try 'ls --help' for more information.
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -R
.:
bush land tree
./bush:
banan mogyoro
./bush/banan:
description.txt
./bush/mogyoro:
./land:
szeder
./land/szeder:
./tree:
banan barack korte listing.txt szeder
./tree/banan:
./tree/barack:
./tree/korte:
./tree/szeder:
mate@mate-VirtualBox: ~/Desktop/USROFS$
```

7)Listáztam az összes olyan elemet amelynek második betűje „e”

```
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -l
total 12
drwxrwxr-x 4 mate mate 4096 febr  23 12:32 bush
drwxrwxr-x 3 mate mate 4096 febr  23 12:30 land
drwxrwxr-x 6 mate mate 4096 febr  23 12:34 tree
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -r
tree land bush
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -e
ls: invalid option -- 'e'
Try 'ls --help' for more information.
mate@mate-VirtualBox: ~/Desktop/USROFS$ ls -R
.:
bush land tree
./bush:
banan mogyoro
./bush/banan:
description.txt
./bush/mogyoro:
./land:
szeder
./land/szeder:
./tree:
banan barack korte listing.txt szeder
./tree/banan:
./tree/barack:
./tree/korte:
./tree/szeder:
mate@mate-VirtualBox: ~/Desktop/USROFS$ cd ..
mate@mate-VirtualBox: $ ls "??e*" -printf
ls: cannot access '??e*': No such file or directory
mate@mate-VirtualBox: $ ls "ie*" -printf
Desktop:
670782 USROFS/ 1458886 'PDF.js v1.9.92.pdf' 670192 ../
670152 OS_C/ 661034 ./
repos:
809422 .git/ 806062 USROFSOSGyak/ 806059 ./ 670192 ../
Templates:
601036 ./ 670192 ../
mate@mate-VirtualBox: $
```

8)Olvashatóvá tettem a listing txt fájlt

```
Activities Terminal febr 23 12:46
mate@mate-VirtualBox: ~/Desktop/USROFS/tree

ls: invalid option -- 'e'
Try 'ls --help' for more information.
mate@mate-VirtualBox:~/Desktop/USROFS$ ls -R
.:
bush land tree
./bush:
bananogyoro
./bush/banan:
description.txt
./bush/mogyoro:
./land:
szeder
./land/szeder:
./tree:
banan barack korte listing.txt szeder
./tree/banan:
./tree/barack:
./tree/korte:
./tree/szeder:
mate@mate-VirtualBox:~/Desktop/USROFS$ cd ..
mate@mate-VirtualBox:~$ ls "ze*" -printf
ls: cannot access 'ze*': No such file or directory
mate@mate-VirtualBox:~$ ls ze* -printf
Desktop:
670782 USROFS/ 1458886 'PDF.js viewer.pdf' 670192 ../
670192 OS_C/ 661034 ./
repos:
809422 .git/ 806062 USROFS0sGyak/ 806059 ./ 670192 ../
Templates:
661036 ./ 670192 ../
mate@mate-VirtualBox:~$ cd Desktop
mate@mate-VirtualBox:~/Desktop$ cd USROFS/
mate@mate-VirtualBox:~/Desktop/USROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cd tree
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ ls
banan barack korte listing.txt szeder
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ sudo chmod u+r listing.txt
[Sudo] password for mates
mate@mate-VirtualBox:~/Desktop/USROFS/tree$
```

9) A dh parancsal kiírtam hogy mennyi helyet foglal a mappa

```
Activities Terminal febr 23 12:48
mate@mate-VirtualBox: ~/Desktop/USROFS

./Land/szeder:
./tree:
banan barack korte listing.txt szeder
./tree/banan:
./tree/barack:
./tree/korte:
./tree/szeder:
mate@mate-VirtualBox:~/Desktop/USROFS$ cd ..
mate@mate-VirtualBox:~/Desktop/USROFS$ ls "7e*" -printf
ls: cannot access '7e*': No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ ls 7e* -printf
Desktop:
670782 USROFS/ 1458886 'PDF.js viewer.pdf' 670192 ../
670152 OS_C/ 661034 ./

repos:
809422 .git/ 806062 USROFSOScyak/ 806059 ./ 670192 ../

Templates:
661036 ./ 670192 ../
mate@mate-VirtualBox:~/Desktop/USROFS$ cd Desktop
mate@mate-VirtualBox:~/Desktop$ cd USROFS/
mate@mate-VirtualBox:~/Desktop/USROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cd tree
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ ls
banan barack korte listing.txt szeder
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ sudo chmod u+r listing.txt
[sudo] password for mate:
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ cd ..
mate@mate-VirtualBox:~/Desktop$ cd USROFS/
mate@mate-VirtualBox:~/Desktop/USROFS$ du
4      ./tree/szeder
4      ./tree/barack
4      ./tree/banan
4      ./tree/korte
24     ./tree
4      ./Land/szeder
8      ./Land
4      ./bush/mogyoro
8      ./bush/banan
16     ./bush
52     .
mate@mate-VirtualBox:~/Desktop/USROFS$ du -sh
52K    .
mate@mate-VirtualBox:~/Desktop/USROFS$
```

10)A sort parancsal abc sorrendbe kiírttam az elemekt

```
Activities Terminal febr 23 12:50
mate@mate-VirtualBox: ~/Desktop/USROFS/tree

661036 ./ 670192 ../
mate@mate-VirtualBox:~/Desktop$ cd Desktop
mate@mate-VirtualBox:~/Desktop$ cd USROFS/
mate@mate-VirtualBox:~/Desktop/USROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cd tree
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ ls
banan barack korte listing.txt szeder
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ sudo chmod u+r listing.txt
[sudo] password for mate:
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ cd ..
mate@mate-VirtualBox:~/Desktop$ cd USROFS/
mate@mate-VirtualBox:~/Desktop/USROFS$ du
4      ./tree/szeder
4      ./tree/barack
4      ./tree/banan
4      ./tree/korte
24     ./tree
4      ./Land/szeder
8      ./Land
4      ./bush/mogyoro
8      ./bush/banan
16     ./bush
52     .
mate@mate-VirtualBox:~/Desktop/USROFS$ du -sh
52K    .
mate@mate-VirtualBox:~/Desktop/USROFS$ cd ls
bash: cd: ls: No such file or directory
mate@mate-VirtualBox:~/Desktop/USROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cd bush
mate@mate-VirtualBox:~/Desktop/USROFS/bush$ ls
banan mogyoro
mate@mate-VirtualBox:~/Desktop/USROFS/bush$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/USROFS$ cd land
mate@mate-VirtualBox:~/Desktop/USROFS/land$ ls
szeder
mate@mate-VirtualBox:~/Desktop/USROFS/land$ cd -
/home/mate/Desktop/USROFS
mate@mate-VirtualBox:~/Desktop/USROFS$ cd tree
mate@mate-VirtualBox:~/Desktop/USROFS/tree$ sort listing.txt
alna
banan
korte
makk
valantibogyó
mate@mate-VirtualBox:~/Desktop/USROFS/tree$
```

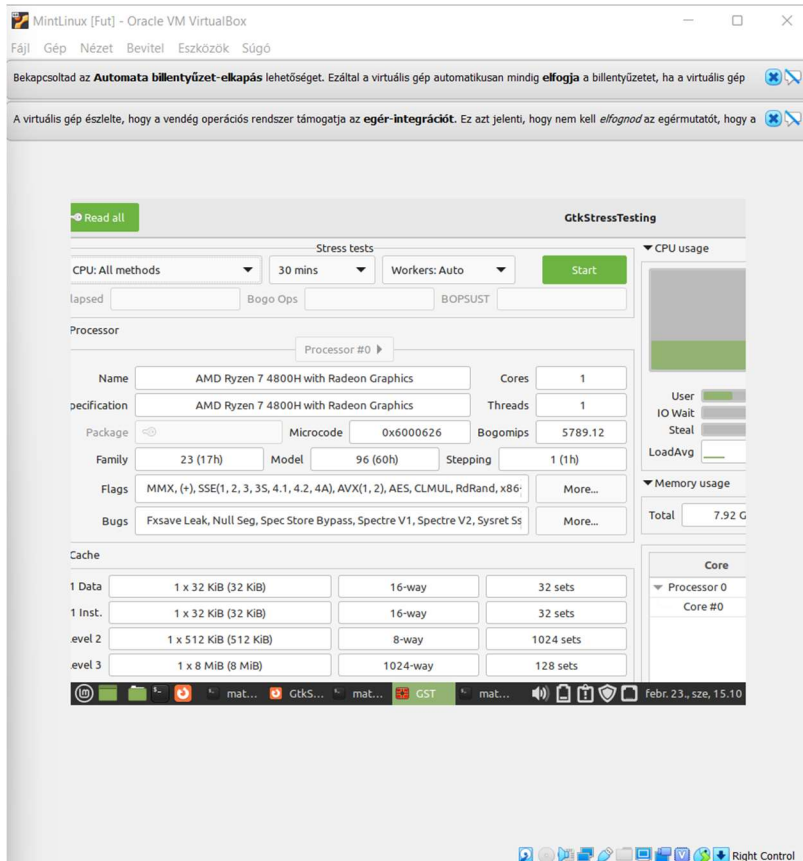

11) A wc parancsal megszámoltam hány szó van a .txt fájlba

```
Activities Terminal Feb 23 12:53
mate@mate-VirtualBox: ~/Desktop/U3ROFS/bush/banan

4 ./tree/barack
4 ./tree/banan
4 ./tree/korte
24 ./tree
4 ./land/szeder
8 ./land
4 ./bush/nogyoro
8 ./bush/banan
16 ./bush
52 .
mate@mate-VirtualBox:~/Desktop/U3ROFS$ du -sh
52K .
mate@mate-VirtualBox:~/Desktop/U3ROFS$ cd ls
bash: cd: ls: No such file or directory
mate@mate-VirtualBox:~/Desktop/U3ROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/U3ROFS$ cd bush
mate@mate-VirtualBox:~/Desktop/U3ROFS/bush$ ls
banan nogyoro
mate@mate-VirtualBox:~/Desktop/U3ROFS/bush$ cd -
/home/mate/Desktop/U3ROFS
mate@mate-VirtualBox:~/Desktop/U3ROFS$ ls
bush land tree
mate@mate-VirtualBox:~/Desktop/U3ROFS$ cd land
mate@mate-VirtualBox:~/Desktop/U3ROFS/land$ ls
szeder
mate@mate-VirtualBox:~/Desktop/U3ROFS/land$ cd -
/home/mate/Desktop/U3ROFS
mate@mate-VirtualBox:~/Desktop/U3ROFS$ cd tree
mate@mate-VirtualBox:~/Desktop/U3ROFS/tree$ sort listing.txt

alno
banan
korte
makk
valambogyó
mate@mate-VirtualBox:~/Desktop/U3ROFS/tree$ cd -
/home/mate/Desktop/U3ROFS
mate@mate-VirtualBox:~/Desktop/U3ROFS$ cd land
mate@mate-VirtualBox:~/Desktop/U3ROFS/land$ ls -ls
total 4
4 szeder
mate@mate-VirtualBox:~/Desktop/U3ROFS/land$ ls -l
total 4
drwxrwxr-x 2 mate mate 4096 febr 23 12:14 szeder
mate@mate-VirtualBox:~/Desktop/U3ROFS/land$ cd -
/home/mate/Desktop/U3ROFS
mate@mate-VirtualBox:~/Desktop/U3ROFS$ cd bush
mate@mate-VirtualBox:~/Desktop/U3ROFS/bush$ cd banan
mate@mate-VirtualBox:~/Desktop/U3ROFS/bush/banan$ wc description.txt
  3  3 17 descript Files tt
mate@mate-VirtualBox:~/Desktop/U3ROFS/bush/banan$
```


2.feladat – Telepítettem egy linux Mint-et a VM-re mivel az Ubuntuval nem sikerült feltelepíteni sudo apt install flatpak parancsal telepítettem a flatpaket majd a flatpak install flathub com.letinardi.gst vel a GtkStressTesting nevű programot.



Ez a program a processzor teljesítményének maximumát adja vissza. A processzort egy maximálisan terheli majd ennek adatait adja vissza.

