

CSE303 OPERATING SYSTEMS ASSIGNMENT 1

Burak Sazlı 20200808703

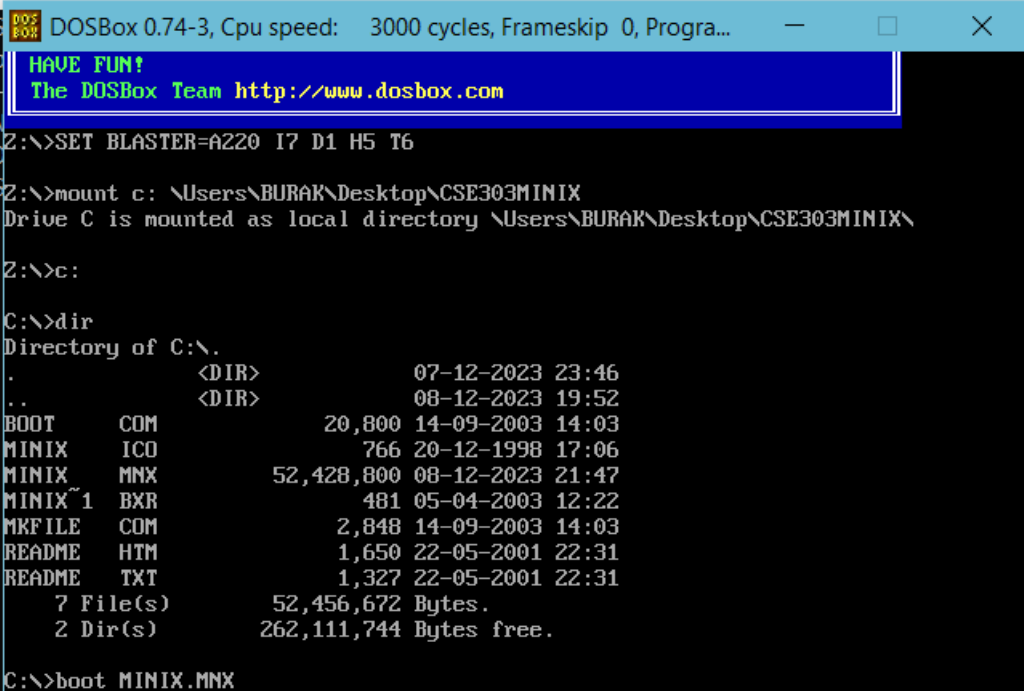
Ayşenur Yelek 20170808060

Şevval Yöntem 20230808622

Ecenur Soybelli 20230808604

- 1- We downloaded Minix from <https://minix1.woodhull.com/pub/minix.2.0/2.0.4/i386/DOSMINIX.ZIP>
- 2- We downloaded DosBox from <https://sourceforge.net/projects/dosbox/>
- 3- We installed DosBox.

4-



The screenshot shows a DOSBox window titled "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...". A blue banner at the top says "HAVE FUN! The DOSBox Team http://www.dosbox.com". The command prompt shows the following commands and output:

```
Z:\>SET BLASTER=A220 I7 D1 H5 T6
Z:\>mount c: \Users\BURAK\Desktop\CSE303MINIX
Drive C is mounted as local directory \Users\BURAK\Desktop\CSE303MINIX\
Z:\>c:
C:\>dir
Directory of C:\.
.                <DIR>                07-12-2023  23:46
..               <DIR>                08-12-2023  19:52
BOOT            COM                20,800  14-09-2003  14:03
MINIX           ICD                 766  20-12-1998  17:06
MINIX           MNX             52,428,800  08-12-2023  21:47
MINIX~1         BXR                 481  05-04-2003  12:22
MKFILE          COM                2,848  14-09-2003  14:03
README          HTM                 1,650  22-05-2001  22:31
README          TXT                 1,327  22-05-2001  22:31
7 File(s)       52,456,672 Bytes.
2 Dir(s)        262,111,744 Bytes free.
C:\>boot MINIX.MNX
```

We mounted Minix to CSE303MINIX folder. After that, opened Minix with boot MINIX.MNX command.

- 5-
- ```
find / -name getty.c -print
/usr/src/commands/simple/getty.c
```

We checked Minix documentation for login keyword. After that, we saw getty.c file. And with find command, we found the directory of getty.c file.

- 6-
- ```
# cd /usr/src/commands/simple
```

For getting file location of getty.c, we wrote cd command and its directory.

- 7- For opening getty.c file, we wrote "vi getty.c" and we opened getty.c file with vim editor.

```
DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Prog...
* getty - get tty speed                               Author: Fred van Kempen */
*burak sazli 20200808703  aysenur yelek 20170808060  seval yontem 20230808622 e
*
* GETTY -      Initialize and serve a login-terminal for INIT.
*              Also, select the correct speed. The STTY() code
*              was taken from stty(1).c; which was written by
*              Andrew S. Tanenbaum.
*
* Usage:      getty [-c filename] [-h] [-k] [-t] line [speed]
*
* Version:    3.4      02/17/90
*
* Author:     F. van Kempen, MicroWalt Corporation
*
* Modifications:
*              All the good stuff removed to get a minimal getty, because
*              many modems don't like all that fancy speed detection stuff.
*              03/03/91      Kees J. Bot (kjb@cs.uu.nl)
*
*              Uname(), termios. More nonsense removed. (The result has
*              only 10% of the original functionality, but a 10x chance of
*              working.)
*              12/12/92      Kees J. Bot
*
"getty.c" 197 lines 4625 chars
```

We opened getty.c file and we wrote our names and student numbers as comment line.

```
DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Prog...
/* Handle the process of a GETTY.
 */
void do_getty(char *name, size_t len, char **args)
{
    register char *np, *s, *s0;
    int ch;
    struct utsname utsname;
    char **banner;
    static char *def_banner[] = { "%s Release %r Version %u\n\n%g giris ", 0 };

    /* Default banner? */
    if (args[0] == NULL) args = def_banner;

    /* Display prompt. */
    ch = ' ';
    *name = '\0';
    while (ch != '\n') {
        /* Get data about this machine. */
        uname(&utsname);

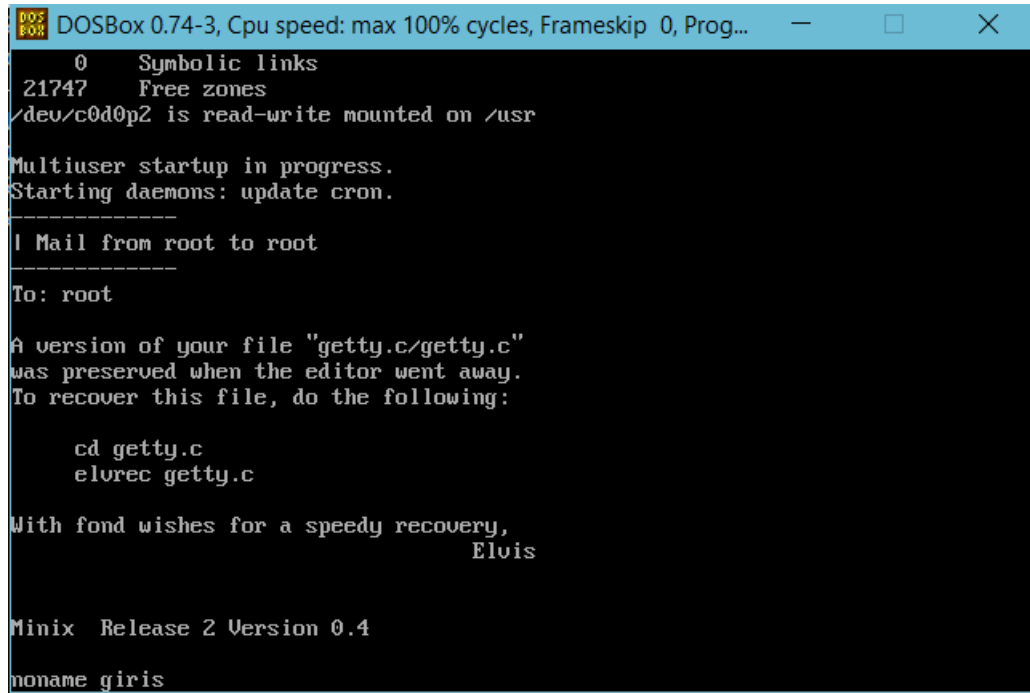
        /* Print the banner. */
        for (banner = args; *banner != NULL; banner++) {
            std_out(banner == args ? "\n" : " ");
        }
    }
}
```

And we changed "login" with "giris". It will write "giris". For editing, we pressed i key and for saving and quitting, we pressed ESC and :wq.

- 8- For saving the changes our made,we compiled Minix with "make install" command.

```
# make install
```

Finally, the login screen is changed. It will write "giris" instead "login".



DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Prog...

```
0      Symbolic links
21747  Free zones
/dev/c0d0p2 is read-write mounted on /usr

Multiuser startup in progress.
Starting daemons: update cron.

-----
| Mail from root to root
-----
To: root

A version of your file "getty.c/getty.c"
was preserved when the editor went away.
To recover this file, do the following:

    cd getty.c
    elvrec getty.c

With fond wishes for a speedy recovery,
                                Elvis

Minix  Release 2 Version 0.4

noname giris
```