Όνομα ΣΤΑΥΡΙΝΑΚΗΣ ΠΑΝΑΓΙΩΤΗΣ

AM 6217

Ερώτημα Α

Λίστα τροποποιηθέντων αρχείων

/usr/src/servers/vfs/open.c

Τροποποιήσεις

/usr/src/servers/vfs/open.c

Line Code

printf("newdir: %s %o\n",fullpath, dirmode);

Screenshots αποτελεσμάτων

-bash-4.2# mkdir OS

process forked

newdir: OS 755

-bash-4.2#

Ερώτημα Β

Λίστα τροποποιηθέντων αρχείων

/usr/src/kernel/system/do_fork.c

Τροποποιήσεις

/usr/src/kernel/system/do_fork.c

Line Code

printf("process forked\n");

Screenshots αποτελεσμάτων

```
-bash-4.2# ls
process forked
.ashrc .exrc OS compile
.bash_history .lesshst ask create_patch
.bashrc .profile ask.c hw4.patch
-bash-4.2# _
```

Ερώτημα C

Λίστα τροποποιηθέντων αρχείων

```
/usr/src/servers/pm/table.c
/usr/src/include/minix/callnr.h
/usr/src/servers/pm/proto.h
/usr/src/servers/pm/do_erotimac.c
/usr/src/servers/pm/Makefile
/root/ask.c
```

Τροποποιήσεις

/usr/src/servers/pm/table.c

```
Line Code

83 do_erotimac, /* 69 = erotimac */
```

/usr/src/include/minix/callnr.h

```
Line Code 68 #define EROTIMAC 69
```

/usr/src/servers/pm/proto.h

```
Line Code
59 int do_erotimac(void);
```

/usr/src/servers/pm/do_erotimac.c

```
Line
            Code
1
            #include "pm.h"
            #include "mproc.h"
2
            int do_erotimac(){
4
            clock_t user_t=0;
5
            clock_t system_t=0;
6
            printf("processes -> %d\n",procs_in_use);
7
            for (int i=0; i<NR PROCS; i++)
8
9
            {
```

```
user_t=mproc[i].mp_child_utime+user_t;
system_t=mproc[i].mp_child_stime+system_t;
}
printf("user time -> %d\n", (int)user_t);
printf("system time -> %d\n", (int)system_t);
return 0;
}
```

/usr/src/servers/pm/Makefile

Line Code

7 profile.c schedule.c do_erotimac.c

/root/ask.c

Line	Code
1	#include <lib.h></lib.h>
2	#include <stdio.h></stdio.h>
4	int main(void) {
5	message m;
6	_syscall(PM_PROC_NR, 69, &m);
7	}

Screenshots αποτελεσμάτων

```
-bash-4.2# ./ask
process forked
processes -> 41
user time -> 85
system time -> 485
-bash-4.2#
```

Ερώτημα D

Λίστα τροποποιηθέντων αρχείων

```
/usr/src/servers/pm/table.c
/usr/src/include/minix/callnr.h
/usr/src/servers/pm/proto.h
/usr/src/servers/pm/do_erotimad.c
/usr/src/servers/pm/Makefile
/root/ask2.c
```

Τροποποιήσεις

/usr/src/servers/pm/table.c

```
Line Code
```

84 do_erotimad, /*70 = erotimad */

/usr/src/include/minix/callnr.h

Line Code

69 #define EROTIMAD 70

/usr/src/servers/pm/proto.h

Line Code

int do_erotimad(int par);

/usr/src/servers/pm/do_erotimad.c

```
Line
             Code
1
            #include "pm.h"
            #include "mproc.h"
2
            int do_erotimad(int par){
4
            for(int i=0; i<NR_PROCS; i++)</pre>
5
6
            if(mproc[i].mp_pid==par) return 1;
7
            else if(i==(NR PROCS-1)) return 0;
8
9
            }
```

```
10 }
```

/usr/src/servers/pm/Makefile

Line Codeprofile.c schedule.c do_erotimac.c do_erotimad.c

/root/ask2.c

Line	Code
1	#include <lib.h></lib.h>
2	#include <stdio.h></stdio.h>
4	int main(void) {
5	message m;
6	_syscall(PM_PROC_NR, 70, &m);
7	}

Screenshots αποτελεσμάτων

```
-bash-4.2# ./ask2 132
process forked
-bash-4.2# _
```