Υποβολή 4ης Άσκησης

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Ερώτημα Α

Λίστα τροποποιηθέντων αρχείων

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

Τροποποιήσεις

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

Line	Code
609	If (r == OK) {
610	Printf("newdir: %s %o\n", fullpath, dirmode);
611	}

Screenshots αποτελεσμάτων

```
-bash-4.2# mkdir ask4
process forked
newdir: ask4 755
-bash-4.2# mkdir ask4
process forked
mkdir: ask4: file exists
```

Ερώτημα B

Λίστα τροποποιηθέντων αρχείων

/usr/src/servers/pm/forkexit.c

Τροποποιήσεις

/usr/src/servers/pm/forkexit.c

Line	Code
134	printf("process forked\n");

Screenshots αποτελεσμάτων

```
-bash-4.2# mkdir ask4
process forked
newdir: ask4 755
-bash-4.2# mkdir ask4
process forked
mkdir: ask4: file exists
```

```
-bash-4.2# ls
process forked
.ashrc          .exrc          ask4           hw4.patch       test1.c
.bash_history   .lesshst       changes.patch  test
.bashrc         .profile       create_patch   test.c
```

Ερώτημα C

Λίστα τροποποιηθέντων αρχείων

/usr/src/include/minix/callnr.h
/usr/src/servers/pm/table.c
/usr/src/servers/pm/proto.h
/usr/src/servers/pm/Makefile
/usr/src/servers/pm/ceid.c

Τροποποιήσεις

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

Line	Code
68	#define CEID 69

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

Line	Code
83	do_ceid, /* 69 = processes */

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

Line	Code
59	int do_ceid(void);

/usr/src/servers/pm/Makefile

Line	Code
7	profile.c schedule.c ceid.c

/usr/src/servers/pm/ceid.c
#include <stdio.h>
#include "pm.h"
#include "mproc.h"
#include "glo.h"

```c
int do_ceid()
{
  int i=0;
  int procs=0;
  clock_t mp_child_utime;
  clock_t mp_child_stime;

  struct statistics{
  clock_t utime, stime;
  };
  struct statistics stats;
  do {
  if (mproc[i].mp_pid != 0) {
    procs++;
    stats.utime += mproc[i].mp_child_utime;
    stats.stime += mproc[i].mp_child_stime;
    }
  i++;
  } while (i<NR_PROCS);
  printf("processes -> %d\n", procs);
  printf("user time -> %d\n", stats.utime);
  printf("system time -> %d\n", stats.stime);
  return 0;
```

Screenshots αποτελεσμάτων

Ερώτημα D

Λίστα τροποποιηθέντων αρχείων

/usr/src/include/minix/callnr.h
/usr/src/servers/pm/table.c
/usr/src/servers/pm/proto.h
/usr/src/servers/pm/Makefile
/usr/src/servers/pm/ceidpid.c

Τροποποιήσεις

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

Line	Code
69	#define CEIDPID 70

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

Line	Code
84	do_ceidpid, /* 70 = ceidpid */

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

Line	Code
60	int do_ceidpid(int var);

/usr/src/servers/pm/Makefile

Line	Code
7	profile.c schedule.c ceid.c ceidpid.c

/usr/src/servers/pm/ceidpid.c
#include <stdio.h>
#include "pm.h"
#include "mproc.h"
#include <stdlib.h>
#include <lib.h>

```c
#include <unistd.h>
#include <minix/type.h>
#include <string.h>

int do_ceidpid(int var)
{
  int i=0;
  int rtrn=0;

  do {
    if (mproc[i].mp_pid == var) {
      rtrn = 1;
      }
 i++;
  } while (i<NR_PROCS);
  return rtrn;
}
```