Υποβολή 2ης Άσκησης

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Ερώτημα 1

Λίστα τροποποιηθέντων αρχείων

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

Τροποποιήσεις

LINE	CODE
616	if(!r) printf("New dir -> %s %3o\n",fullpath,(bits & 0777));

Screenshots αποτελεσμάτων

```
-bash-4.2# mkdir test
mkdir: test: file exists
-bash-4.2# mkdir test1
New dir -> test1 755
-bash-4.2#
```
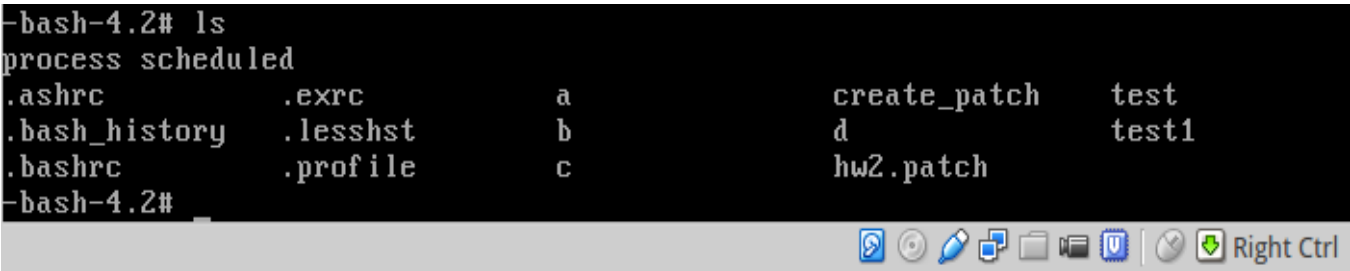
Ερώτημα 2

Λίστα τροποποιηθέντων αρχείων

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

Τροποποιήσεις

LINE	CODE
126	printf("process scheduled\n");

Screenshots αποτελεσμάτων

Ερώτημα 3

Λίστα τροποποιηθέντων αρχείων

/usr/src/include/minix/callnr.h
usr/src/include/unistd.h
usr/src/lib/libc/sys-minix/Makefile.inc
usr/src/lib/libc/sys-minix/c_call.c
usr/src/servers/pm/Makefile
usr/src//servers/pm/mycall.c
usr/src/servers/pm/proto.h
usr/src/servers/pm/table.c

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

LINE	CODE
68	#define CCALL 70

usr/src/include/unistd.h

LINE	CODE
411	int ccall(int); /* declaration for D Library call */

usr/src/lib/libc/sys-minix/Makefile.inc

LINE	CODE
19	c_call.c

usr/src/servers/pm/Makefile

LINE	CODE
7	mycall.c

usr/src/servers/pm/proto.h

LINE	CODE
108	int do_ccall(void);

usr/src/servers/pm/table.c

LINE	CODE
83	do_ccall,

usr/src//servers/pm/mycall.c

LINE	CODE
| | ```
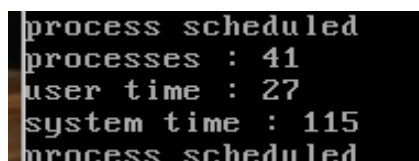void do_ccall(){
    struct mproc  *mp;
    int i, num=0, utime=0, stime=0;

    for(i = 0;i < NR_PROCS;i++){
        mp = &mproc[i];

        if (mp->mp_flags &  IN_USE ){
            num ++;
            utime += mp->mp_child_utime;
            stime += mp->mp_child_stime;
        }
    }

    printf("processes : %d\n",num);
    printf("user time : %d\n",utime);
    printf("system time : %d\n",stime);

    return;

}
``` |

usr/src/lib/libc/sys-minix/c_call.c

LINE	CODE
| NEW FILE | ```
#include <sys/cdefs.h>
#include <lib.h>
#include <string.h>
#include <unistd.h>
#include "namespace.h"

void ccall(void ){
    message m;

    memset(&m,0,sizeof(m));

    _syscall(PM_PROC_NR,CCALL,&m);

    return ;
}
``` |

Screenshots *αποτελεσμάτων*


```
process scheduled
processes : 41
user time : 27
system time : 115
process scheduled
```

Ερώτημα 4

Λίστα τροποποιηθέντων αρχείων

/usr/src/include/minix/callnr.h
usr/src/include/unistd.h
usr/src/lib/libc/sys-minix/Makefile.inc
usr/src/lib/libc/sys-minix/d_call.c
usr/src/servers/pm/Makefile
usr/src//servers/pm/mycall.c
usr/src/servers/pm/proto.h
usr/src/servers/pm/table.c

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

LINE	CODE
69	#define DCALL 70

usr/src/include/unistd.h

LINE	CODE
412	int dcall(int); /* declaration for D Library call */

usr/src/lib/libc/sys-minix/Makefile.inc

LINE	CODE
19	d_call.c

usr/src/lib/libc/sys-minix/d_call.c

LINE	CODE

NEW FILE	#include <sys/cdefs.h>
	#include <lib.h>
	#include <string.h>
	#include <unistd.h>
	#include "namespace.h"
	
	int dcall(int num){
	    message m;
	
	    memset(&m,0,sizeof(m));
	    m.m1_i1 = num;
	    return(_syscall(PM_PROC_NR,DCALL,&m));
	
	}

usr/src/servers/pm/Makefile

LINE	CODE
7	mycall.c

usr/src//servers/pm/mycall.c

LINE	CODE
51-	```int do_dcall(){
        int tpid = m_in.m1_i1;

        struct mproc *mp;
    int i,flag = 0 ;

        for(i = 0;i < NR_PROCS;i++){
            mp = &mproc[i];
            if (mp->mp_pid == tpid){
                    flag = 1;
                    break;
                }
        }

        return flag;
    }``` |

usr/src/servers/pm/proto.h

LINE	CODE
109	int do_dcall(void);

usr/src/servers/pm/table.c

LINE	CODE
84	do_dcall,