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Assignment 2 Operating System

CODE MODIFICATION REPORT

Nomor 1

1. makefile (line 3)

```
3. CS333_PROJECT ?= 2
```

2. makefile (line 21)

```
CS333_UPROGS += #_date _time _ps
```

3. p2-test.c (line 12-14)

```
//#define CPUTIME_TEST  
//#define GETPROCS_TEST  
//#define TIME_TEST
```

4. proc.c (line 9-11)

```
#ifdef CS333_P2  
#include "pdx.h"  
#endif //CS333_P2
```

5. proc.c (line 183-187)

```
#ifdef CS333_P2  
    p->uid = DEFAULT_UID;  
    p->gid = DEFAULT_GID;  
#endif // CS333_P2
```

6. proc.c (line 260-263)

```
#ifdef CS333_P2  
    np->uid = curproc->uid;  
    np->gid = curproc->gid;  
#endif
```

7. proc.h (line 53-54)

```
uint uid;  
uint gid;
```

8. syscall.c (line 113-119)

```
#ifdef CS333_P2  
extern int sys_getuid(void);  
extern int sys_getgid(void);  
extern int sys_getppid(void);  
extern int sys_setuid(void);  
extern int sys_setgid(void);  
#endif // CS333_P2
```

9. syscall.c (line 149-155)

```
#ifdef CS333_P2  
[SYS_getuid] sys_getuid,  
[SYS_getgid] sys_getgid,  
[SYS_getppid] sys_getppid,  
[SYS_setuid] sys_setuid,  
[SYS_setgid] sys_setgid,  
#endif //CS333_P2
```

10. syscall.c (line 187-193)

```
#ifdef CS333_P2  
[SYS_getuid] "getuid",  
[SYS_getgid] "getgid",  
[SYS_getppid] "getppid",  
[SYS_setuid] "setuid",  
[SYS_setgid] "setgid",  
#endif //CS333_P2
```

11. syscall.h (line 26-30)

```
#define SYS_getuid SYS_date+1  
#define SYS_getgid SYS_getuid+1  
#define SYS_getppid SYS_getgid+1  
#define SYS_setuid SYS_getppid+1  
#define SYS_setgid SYS_setuid+1
```

12. sysproc.c (line 112-148)

```
#ifdef CS333_P2
int
sys_getuid(void)
{
    return myproc()->uid;
}
int
sys_getgid(void)
{
    return myproc()->gid;
}
int
sys_getppid(void)
{
    if(myproc()->pid == 1)
        return myproc()->pid;
    return myproc()->parent->pid;
}
int
sys_setuid(void)
{
    int tmp;
    if(argint(0,&tmp) < 0 || tmp > 32767 || tmp < 0)
        return -1;
    myproc()->uid = (uint)tmp;
    return 0;
}
int
sys_setgid(void)
{
    int tmp;
    if(argint(0,&tmp) < 0 || tmp > 32767 || tmp < 0)
        return -1;
    myproc()->gid = (uint)tmp;
    return 0;
}
#endif
```

13. user.h (line 51-57)

```
#ifdef CS333_P2
uint getuid(void);
uint getgid(void);
uint getppid(void);
```

```
int setuid(uint);  
int setgid(uint);  
#endif // CS333_P2
```

14. usys.S (line 34-38)

```
SYSCALL(getuid)  
SYSCALL(getgid)  
SYSCALL(getppid)  
SYSCALL(setuid)  
SYSCALL(setgid)
```