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Code Modification Report

Makefile

Line 16:

```
CS333_UPROGS += _date
```

syscall.c

Line 109-112:

```
#ifdef CS333_P1
// internally, the function prototype must be 'int' not 'uint' for sys_date()
extern int sys_date(void);
#endif // CS333_P1
```

Line 139-141:

```
#ifdef CS333_P1
[SYS_date] sys_date,
#endif // CS333_P1
```

Line 182-185:

syscall.h

Line 24:

```
#define SYS_date SYS_halt+1
```

sysproc.c

Line 101-111:

```
#ifdef CS333_P1
int
sys_date(void)
{
   struct rtcdate *d;
```

```
if (argptr(0, (void*)&d, sizeof(struct rtcdate)) < 0)
    return -1;
    cmostime(d);
    return 0;
}
#endif</pre>
```

proc.c

Line 151:

```
p->start_ticks = ticks;
```

Line 566-571:

```
#ifdef CS333_P1
int elapsed_ms = ticks - p->start_ticks;
int elapsed_scnd = elapsed_ms / 1000;
int elapsed_div = elapsed_ms % 1000;
cprintf("%d\t%s\t%d.%d\t%s\t%d", p->pid, p-
>name, elapsed_scnd, elapsed_div, state_string, p->sz);
#endif
```

proc.h

Line 52:

```
uint start_ticks;
```

user.h

Line 28-30:

```
#ifdef CS333_P1
int date(struct rtcdate*);
#endif // CS333 P1
```

usys.s

Line 33:

SYSCALL(date)