## **Code Modification Report**

```
I.
     Makefile
        Line 3 & 4
           CS333_PROJECT ?= 1
          PRINT_SYSCALLS ?= 1 (Untuk System Call Tracing)
     - Line 16
           CS333_UPROGS += _date
II.
     User.h
        Line 29 - 31
           #ifdef CS333_P1
          int date(struct rtcdate*);
          #endif // CS333_P1
III.
     Usys.s
     - Line 33
           SYSCALL(date)
IV.
     Syscall.h
        Line 25
           #define SYS_date SYS_halt+1
     Syscall.c
٧.
        Line 109 – 111
           #ifdef CS333_P1
          extern int sys_date(void);
          #endif // CS333_P1
     - Line 139 – 141
        syscalls[]
           #ifdef CS333_P1
          [SYS_date] sys_date,
          #endif // CS333_P1
     - Line 170 – 172
        syscallnames[]
           #ifdef CS333_P1
           [SYS_date] "date",
          #endif // CS333_P1
```

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- Line 184 - 186
          syscalls()
            #ifdef PRINT_SYSCALLS
            cprintf("%s -> %d\n", syscallnames[num], curproc->tf->eax);
            #endif
 VI. Sysproc.c
          Line 101 – 112
            #ifdef CS333 P1
            int
            sys_date(void)
              struct rtcdate *d;
              if(argptr(0, (void*)&d, sizeof(struct rtcdate)) < 0)</pre>
                return -1;
              cmostime(d);
              return 0;
            }
            #endif // CS333_P1
VII.
       Proc.c
          Line 567 - 571
          procdumpP1()
            uint elapsed = ticks - p->start_ticks;
            uint elapsed_second = elapsed/1000;
            uint elapsed_millisecond = elapsed % 1000;
            cprintf("%d\t%s\t\t%d.%d\t%s\t%d\t",
          p->pid,p->name,elapsed_second,elapsed_millisecond,state_string,p-
          >sz);
VIII.
       Proc.h
          Line 53 - 55
            #ifdef CS333_P1
            uint start_ticks;
                                    // Control-p
            #endif
```