

## Implementation of system call for settimeofday()

```
#include <stdio.h>
```

```
#include <sys/time.h>
```

```
#include <unistd.h>
```

```
#include <errno.h>
```

```
#include <string.h>
```

```
#include <time.h>
```

```
int main() {
```

```
    struct timeval new_time;
```

```
    // Set desired system time: Example - Thu Jan 2, 2025 00:00:00 UTC
```

```
    new_time.tv_sec = 1735776000; // Unix timestamp
```

```
    new_time.tv_usec = 0;
```

```
    printf("Attempting to set system time to: %s", ctime(&new_time.tv_sec));
```

```
    // Set the system time
```

```
    if (settimeofday(&new_time, NULL) == -1) {
```

```
perror("Failed to set system time");

printf("Error code: %d - %s\n", errno, strerror(errno));

return 1;

}

printf("System time successfully updated.\n");

// Verify the time was set correctly

struct timeval current_time;

gettimeofday(&current_time, NULL);

printf("Current system time is now: %s", ctime(&current_time.tv_sec));

return 0;

}
```