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#include <pthread.h>

#include <stdio.h>

#include <stdlib.h>


#define NUM_THREADS 5


pthread_mutex_t lock;


void *run_thread(void *tid) {
    int id = (int) tid;


    pthread_mutex_lock(&lock);
    printf("Thread %d: Lock acquired.\n", id);


    printf("Thread %d: Performing some task...\n", id);
    sleep(1);


    printf("Thread %d: Releasing lock.\n", id);
    pthread_mutex_unlock(&lock);


    pthread_exit(NULL);
}


int main(int argc, char *argv[]) {
    pthread_t threads[NUM_THREADS];

    int rc, i;


    pthread_mutex_init(&lock, NULL);


    for (i = 0; i < NUM_THREADS; i++) {
        rc = pthread_create(&threads[i], NULL, run_thread, (void *)i);
```

```
    if (rc) {  
        printf("Error: unable to create thread %d\n", i);  
        exit(-1);  
    }  
}  
  
for (i = 0; i < NUM_THREADS; i++) {  
    pthread_join(threads[i], NULL);  
}  
  
pthread_mutex_destroy(&lock);  
pthread_exit(NULL);  
}
```

vbnet

The value of the shared variable is 5000000