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simplePthreadEx.c

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#include <stdio.h>
#include <pthread.h>
#include <errno.h>
#include <unistd.h>
#include <stdlib.h>

void work(void)
{
    pthread_t tid;
    tid = pthread_self();
    printf("I am a worker thread %d\n", (int) tid);
    sleep(1+(int) (10.0*rand()/(RAND_MAX+1.0)));
    printf("Worker thread %d is done\n", (int) tid);
}

int main()
{
    int error,i,n;
    pthread_t mytid;
    pthread_t *tidArray;

    printf("Enter number of threads: ");
    scanf("%d",&n);

    tidArray = (pthread_t *) calloc(n, sizeof(pthread_t));

    mytid = pthread_self();
    printf("thread %d creating thread\n", (int) mytid);
    for (i=0;i<n;i++)
    {
        error = pthread_create(&tidArray[i], NULL, (void (*)(void *))work,
k, NULL);
        printf("created thread %d\n", (int) tidArray[i]);
    }
    printf("Done Creating threads\n");
    for( i=0; i<n; i++)
    {
        error = pthread_join(tidArray[i], NULL);
        printf("joined thread %d\n", (int) tidArray[i]);
    }
    printf("Done joining threads\n");
    return 0;
}

```