

Pthread 를 이용한 프로그램 예)

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#include <pthread.h>
#include <stdio.h>

int sum; /* this data is shared by the thread(s) */
void *runner(void *param); /* the thread */

main(int argc, char *argv[])
{
    pthread_t tid; /* the thread identifier */
    pthread_attr_t attr; /* set of attributes for the thread */
    if (argc != 2) {
        fprintf(stderr,"usage: a.out <integer value>\n");
        exit();
    }
    if (atoi(argv[1]) < 0) {
        fprintf(stderr,"Argument %d must be non-negative\n",atoi(argv[1]));
        exit();
    }
    pthread_attr_init(&attr); /* get the default attributes */
    pthread_create(&tid,&attr,runner,argv[1]); /* create the thread */
    pthread_join(tid,NULL); /* now wait for the thread to exit */
    printf("sum = %d\n",sum);
}

/* The thread will begin control in this function */
void *runner(void *param)
{
    int upper = atoi(param);
    int i;
    sum = 0;
    if (upper > 0) {
        for (i = 1; i <= upper; i++)
            sum += i;
    }
    pthread_exit(0);
}
```

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