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1 // Name: Lam Dang
2 // For CS360
3 // Assignment 5.6
4
5
6 #include <stdlib.h>
7 #include <omp.h>
8 #include <getopt.h>
9
10 int main(int argc, char* argv[]) {
11     int iteration;
12     int opt = 0;
13     int num_thread;
14     int thread_num;
15     int i = 0;
16
17
18     while ((opt = getopt(argc, argv, "i:t:")) != -1) {
19         switch (opt) {
20             case 'i':
21                 iteration = strtoul(optarg, (char**) NULL, 10);
22                 break;
23
24             case 't':
25                 num_thread = strtoul(optarg, (char**) NULL, 10);
26                 break;
27
28             default:
29                 break;
30         }
31     }
32
33     # pragma omp parallel num_threads(num_thread)
34     {
35         int index = -1;
36         int first;
37         int last;
38         #pragma omp for firstprivate(thread_num) schedule(static)
39         for(i = 0; i < iteration; i++){
40             if(index == -1){
41                 first = i;
42             }
43             index = i;
44         }
45         last = index;
46         thread_num = omp_get_thread_num();

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47     printf("Thread %d : %d to %d\n", thread_num, first, last);
48     index = -1;
49 }
50
51 }
52
```