

2. Thread Scheduling

[t0.c](#) (updated)

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <pthread.h>
4
5  #include "common.h"
6  #include "common_threads.h"
7
8  void *mythread(void *arg) {
9      printf("%s\n", (char *) arg);
10     return NULL;
11 }
12
13 int main(int argc, char *argv[]) {
14     if (argc != 1) {
15         fprintf(stderr, "usage: main\n");
16         exit(1);
17     }
18
19     pthread_t p1, p2;
20     printf("main: begin\n");
21     printf( "main: creating T1\n");
22     Pthread_create(&p1, NULL, mythread, "A");
23     printf( "main: creating T2\n");
24     Pthread_create(&p2, NULL, mythread, "B");
25     // join waits for the threads to finish
26     printf( "main: waiting for T1\n");
27     Pthread_join(p1, NULL);
28     printf( "main: waiting for T2\n");
29     Pthread_join(p2, NULL);
30     printf("main: end\n");
31     return 0;
32 }
```

```
$ ./t0
main: begin
main: creating T1
main: creating T2
main: waiting for T1
A
B
main: waiting for T2
main: end

$ ./t0
main: begin
main: creating T1
main: creating T2
A
main: waiting for T1
main: waiting for T2
B
main: end

$ ./t0
main: begin
main: creating T1
main: creating T2
A
main: waiting for T1
B
main: waiting for T2
main: end
```

Figure 26.2: **Simple Thread Creation Code (t0.c)** (updated)