



petter: bash — Konsole

petter@microhals-t420s:~/home/petter\$

petter@microhals-t420s:~/tmp\$

reg b = b

09:44:50

tmp: emacs — Konsole

emacs@microhals-t420s

```

petter@microhals-t420s:~/home/petter$ cd /tmp
petter@microhals-t420s:~/tmp$ emacs dekker.c
libGL error: No matching fbConfigs or visuals found
libGL error: failed to load driver: swrast
  
```

tmp: emacs

09:45:16

tmp: emacs — Konsole

```

petter@microhals-t420s:~/home/petter$ cd /tmp
petter@microhals-t420s:~/tmp$ emacs dekker.c
libGL error: No matching fbConfigs or visuals found
libGL error: failed to load driver: swrast
Xlib: extension "XInputExtension" missing on display ":1".
Xlib: extension "XInputExtension" missing on display ":1".
Xlib: extension "XInputExtension" missing on display ":1".
petter@microhals-t420s:~/tmp$
  
```

tmp: emacs

09:46:12

tmp: emacs — Konsole

```

1 // gcc -pthread dekker.c -o dekker
2
3 #include <pthread.h> // pthread_create, pthread_exit
4 #include <stdio.h> // printf
5 #include <stdlib.h> // exit
6 #include <assert.h> // assert
7
8 #define NUM_THREADS 2
9 #define true 1
10 #define false 0
11
12 // /sys/devices/system/cpu/cpu0/cache/index0/coherency_line_size
13
14 int flag[2];
15 int turn = 0;
16 int data = 0;
17
18 void *dekker(void *threadid) {
19     long tid = (long)threadid; // keep book of the thread's id
20     printf("This is thread %ld!\n", tid);
21     while(true) {
22         flag[tid] = true;
23         while(flag[1 - tid] == true) {
24             if(turn != tid) {
25                 flag[tid] = false;
26                 while(turn != tid)
27                     ;
28                 flag[tid] = true;
29             }
30         }
31     }
32 }
  
```

tmp: emacs

09:46:38


```
emacs@michaels-t420s
3 #include <pthread.h> // pthread_create, pthread_exit
4 #include <stdio.h> // printf
5 #include <stdlib.h> // exit
6 #include <assert.h> // assert
7
8 #define NUM_THREADS 2
9 #define true 1
10 #define false 0
11
12 int flag[2];
13 int turn;
14 int data;
15
16 void *dekker(void *threadid){
17     long tid = (long)threadid;
18     printf("This is thread #%ld!\n");
19     while (true) {
20         flag[tid] = true;
21         while (flag[1-tid])
22             ;
23     }
24 }
25
26 *int main(int argc, char *argv[]) {
27     pthread_t threads[NUM_THREADS];
28     -:**- dekker.c      4% (24,11)    (C/L FlyC* company Abbrev)
29     expected statement
30     expected ')'
31
32 1 2 3 4 tmp : emacs — Konsole emacs@michaels-t420s 09:52:39
```

```
emacs@michaels-t420s
17     long tid = (long)threadid;
18     printf("This is thread #%ld!\n");
19     while (true) {
20         flag[tid] = true;
21         while (flag[1-tid]==true ){
22             if(turn!= tid){
23                 flag[tid]=false;
24                 while(turn !=tid) ;
25                 flag[tid] =true;
26             }
27         }
28         //critical section
29         turn =1-tid;
30     }
31 }
32 *int main(int argc, char *argv[]) {
33     pthread_t threads[NUM_THREADS];
34     int rc;
35     long t;
36     flag[0] = false;
37     flag[1] = false;
38     turn=0;
39     for(t = 0; t < NUM_THREADS; t++) {
40         printf("In main: creating thread %ld\n", t);
41         rc = pthread_create(&threads[t], NULL, dekker, (void *)t);
42         if(rc) {
43             printf("ERROR: return code from pthread_create() is %d\n", rc);
44         }
45     }
46     -:**- dekker.c      28% (30,4)    (C/L FlyC* company Abbrev)
47
48 1 2 3 4 tmp : emacs — Konsole emacs@michaels-t420s 09:54:51
```