

CA\Users\mudir\OneDrive\Documents\OS12.cpp - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 9.2.0 64-bit Release

(globals)

Project Class

os11.cpp os12.cpp

```
1 #include <stdio.h>
2 #include <pthread.h>
3 #include <semaphore.h>
4 #include <unistd.h>
5
6 #define N 5
7 #define THINKING 0
8 #define HUNGRY 1
9 #define EATING 2
10
11 int state[N];
12 sem_t mutex;
13 sem_t s[N];
14
15
16 void test(int i) {
17     if (state[i] == HUNGRY &&
18         state[(i + 4) % N] != EATING &&
19         state[(i + 1) % N] != EATING) {
20
21         state[i] = EATING;
22         sleep(1);
23         printf("Philosopher %d is Eating \n", i + 1);
24         sem_post(&s[i]);
25     }
26 }
27
28 void take_forks(int i) {
29     sem_wait(&mutex);
30     ...
31 }
```

Compiler Resources Compile Log Debug Find Results Console Close

Abort Compilation

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\mudir\OneDrive\Documents\OS12.exe  
Output Size: 405.029296875 Kib  
Compilation Time: 0.17s

Shorten compiler pat

Philosopher 4 is Hungry ??  
Philosopher 3 is Thinking ??  
Philosopher 2 is Eating ??  
Philosopher 5 is Thinking ??  
Philosopher 4 is Eating ??  
Philosopher 1 is Hungry ??  
Philosopher 2 is Thinking ??  
Philosopher 1 is Eating ??  
Philosopher 3 is Hungry ??  
Philosopher 4 is Thinking ??  
Philosopher 3 is Eating ??  
Philosopher 5 is Hungry ??  
Philosopher 1 is Thinking ??  
Philosopher 5 is Eating ??  
Philosopher 2 is Hungry ??  
Philosopher 3 is Thinking ??  
Philosopher 2 is Eating ??  
Philosopher 4 is Hungry ??  
Philosopher 5 is Thinking ??  
Philosopher 4 is Eating ??  
Philosopher 1 is Hungry ??  
Philosopher 2 is Thinking ??  
Philosopher 1 is Eating ??  
Philosopher 3 is Hungry ??  
Philosopher 4 is Thinking ??  
Philosopher 3 is Eating ??  
Philosopher 5 is Hungry ??  
Philosopher 2 is Hungry ??  
Philosopher 1 is Thinking ??

Line: 29 Col: 24 Sel: 0 Lines: 81 Length: 2075 Insert Done parsing in 0.032 seconds

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