

MP2-Memory-Management

Deadline : 2015/11/15 23:59

- **Setting**

Copy MP1 to a new folder

`cp -r NachOS-4.0_MP1 NachOS-4.0_MP2`

- **Goal**

The NachOS doesn't support multi-programming now, you have to modify the code to make NachOS support it. By memory management, Nachos will arrange memory to reach multi-programming.

Without multi-programming

```
root@ubuntu:/home/richard/NachOS-4.0_MP1_t/code/test# ../build.linux/nachos -e test1 -e test2
test1
test2
9
15
17
18
19
16
return value:0
return value:0
```

After **implement multi-programming**

```
root@ubuntu:/home/richard/NachOS-4.0_MP2_t/code/test# ../build.linux/nachos -e test1 -e test2
test1
test2
9
15
16
17
18
19
return value:0
8
7
6
return value:0
```

- **Hint**

The following files "may" be modified...

1. userprog/addrspace.*
2. threads/kernel.*

- **Compile**

1. `cd $NachOS_home/code/build.linux`
2. `make`

- **Grading**

- 1. Demo 60%**

Implement multi-programming & upload the code to server before deadline

Execute “../build.linux/nachos -e test1 -e test2” correctly

- 2. Trace code 25%**

Explain how a thread goes through in NachOS and other detail

Filename : **MP2_trace_[yourGroupName].pdf**

Upload to iLMS

- 3. Report 15%**

Explain how you modified the code & group contribution

Filename : **MP2_code_[yourGroupName].pdf**

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