

MP2-Multi-Programming

Deadline : 2016/11/16 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 go through in NachOS and other detail
Filename : **MP2_trace_[yourGroupNumber].pdf**
Upload to iLMS

3. Report 15%

Explain how you modified the code & group contribution
Filename : **MP2_code_[yourGroupNumber].pdf**
Upload to iLMS