CS 241 Section (03/29/2012)

DS8 Outline

- MP6 Recap
- Common questions
- Conditional Variable
- Usage of access()
- Code examples

MP6

```
job1: job2 job3
    commandtoberun withargs
    commandtoberun2 withargs
job2:
```

othercommand

job3: finalcommand

target MP6

```
job1: job2 job3
commandtoberun withargs
commandtoberun2 withargs
job2:
```

othercommand

job3:

finalcommand

MP6 dependencies

job1: job2 job3

commandtoberun withargs commandtoberun2 withargs

job2:

othercommand

job3:

finalcommand

MP6

```
job1: job2 job3
      commandtoberun withargs
      commandtoberun2 withargs
job2:
      othercommand
job3:
      finalcommand
                     commands
```

MP6

- Part I
 - Parse the command line
- Part II
 - Parse the makefile
- Part III
 - Check the dependencies
- Part IV
 - Do the job

Common Questions

- How should I use parser_parse_makefile() ?
- Why the contents of the queue are not right though I append the new job/dependency/target at the end?
- Why my semaphore is not working as I expected?

Conditional Variables

- Represent an arbitrary event
- Operations: Wait for event, signal occurrence of event
- Tied to a mutex for mutual exclusion

Conditional Variables

- Basic operations
 - Wait for event
 - Signal occurrence of event to one waiting thread
 - Signal occurrence of event to all waiting threads

Use of access()

- Basic operations
 - int access(const char *pathname, int mode);
- Mode:
 - $-F_OK$

Coding Examples

This week:ds/ds8/