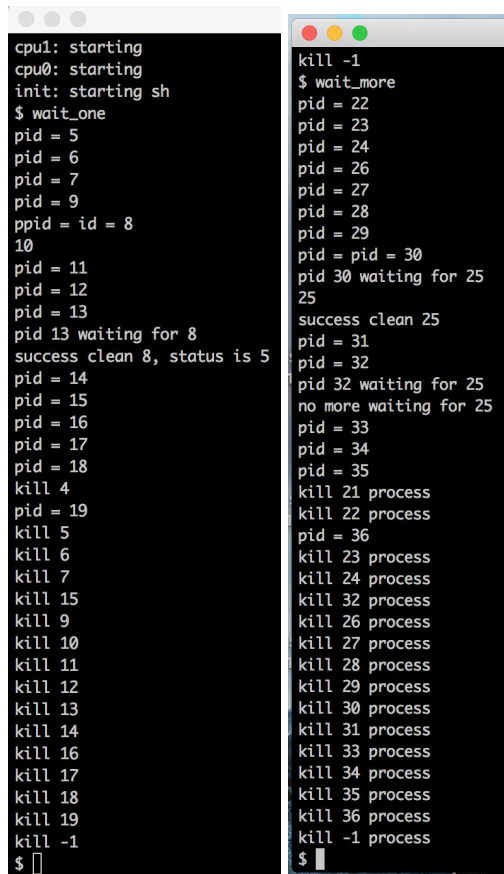


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Lab 1 Writeup

Part 1: We used the tests that were given by the TA. To run the first test case, type make qemu-nox and then type wait_one. To run the second test case, type make wait_more. We only had two test cases which were the TAs.



```
cpu1: starting
cpu0: starting
init: starting sh
$ wait_one
pid = 5
pid = 6
pid = 7
pid = 9
ppid = id = 8
10
pid = 11
pid = 12
pid = 13
pid 13 waiting for 8
success clean 8, status is 5
pid = 14
pid = 15
pid = 16
pid = 17
pid = 18
kill 4
pid = 19
kill 5
kill 6
kill 7
kill 15
kill 9
kill 10
kill 11
kill 12
kill 13
kill 14
kill 16
kill 17
kill 18
kill 19
kill -1
$
```

```
kill -1
$ wait_more
pid = 22
pid = 23
pid = 24
pid = 26
pid = 27
pid = 28
pid = 29
pid = pid = 30
pid 30 waiting for 25
25
success clean 25
pid = 31
pid = 32
pid 32 waiting for 25
no more waiting for 25
pid = 33
pid = 34
pid = 35
kill 21 process
kill 22 process
pid = 36
kill 23 process
kill 24 process
kill 32 process
kill 26 process
kill 27 process
kill 28 process
kill 29 process
kill 30 process
kill 31 process
kill 33 process
kill 34 process
kill 35 process
kill 36 process
kill -1 process
$
```

The included test cases tested for waitpid and also used wait and exit.

The test cases calls waitpid on a another process and waits if it does wait it prints success.

Part 2:

We also used the tests cases provided by the TA to test the scheduler. To run the test cases, type `make qemu-nox`, then type `prio_test` and then type `prio_test2`.

```
cpu0: starting
init: starting sh
$ prio_test
pid = 11, get higher priority

[11] I should be done first
[5] done runing
[7] done runing
[6] done runing
[8] done runing
[10] done runing
[4] done runing
[13] done runing
[9] done runing
[12] done runing
[14] done runing
[-1] done runing
$
```

```
$ prio_test2
pid = 20, get higher priority

pid = 23, get higher priority

[20] I should be done first two
[23] I should be done first two
[18] done runing
[21] done runing
[17] done runing
[19] done runing
[24] done runing
[26] done runing
[22] done runing
[16] done runing
[25] done runing
[-1] done runing
$
```

As you can see, the priority scheduler worked on both cases because it printed out I should be done first.

Our Xv6 folder includes both parts of the lab. (๑_๑)