CS330 PJ #0

20140307 신민기 (Team 1) 2017/09/10

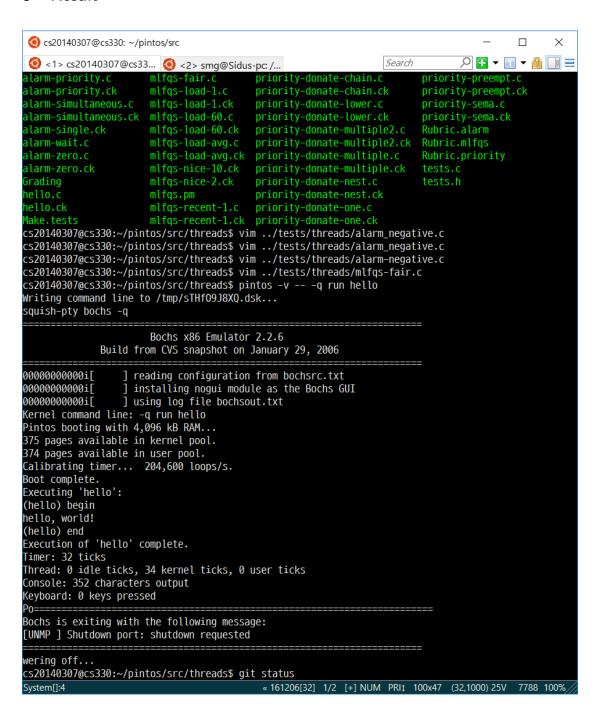
1 Preliminaries

0 tokens used.

2 Objectives

Add a new test program that prints "hello, world!"

3 Result



4 Implementation

To track on test named hello, I modified src/tests/threads/Make.tests, src/tests/threads/tests.h, and src/tests/thread/tests.c.

I referred the list and the format of the predefined tests, and added the filename 'hello.c' and test name hello based on those contexts.

And as a expected result of test hello, I made src/tests/threads/hello.ck based on another predefined test with a simple output, alarm-zero.ck.

src/tests/threads/hello.c contains actual program code. It includes <stdio.h>
and tests/threads/tests.h, and a function test_hello with a simple printf line.

Other tests uses the msg function to print, but I could not find what makes them different to each other. Since msg prints the test name, I decided using printf is more appropriate to the assignment terms.

5 Description

As the appendix on pintos manual describes, the loader finds the kernel, loads it to memory, and sets the control on its entry point. main() is responsible to initialize BSS, parse command line, initialize the thread system, the memory system, the interrupt system. Then it creates the thread and enables interrupts, calibrates the timer.

Boot is over, so the pintos excutes the command line.

printf is implemented in kernel/stdio.h, and it uses vga.c, vga.h, serial.c and serial.h to display the text "hello, world!".