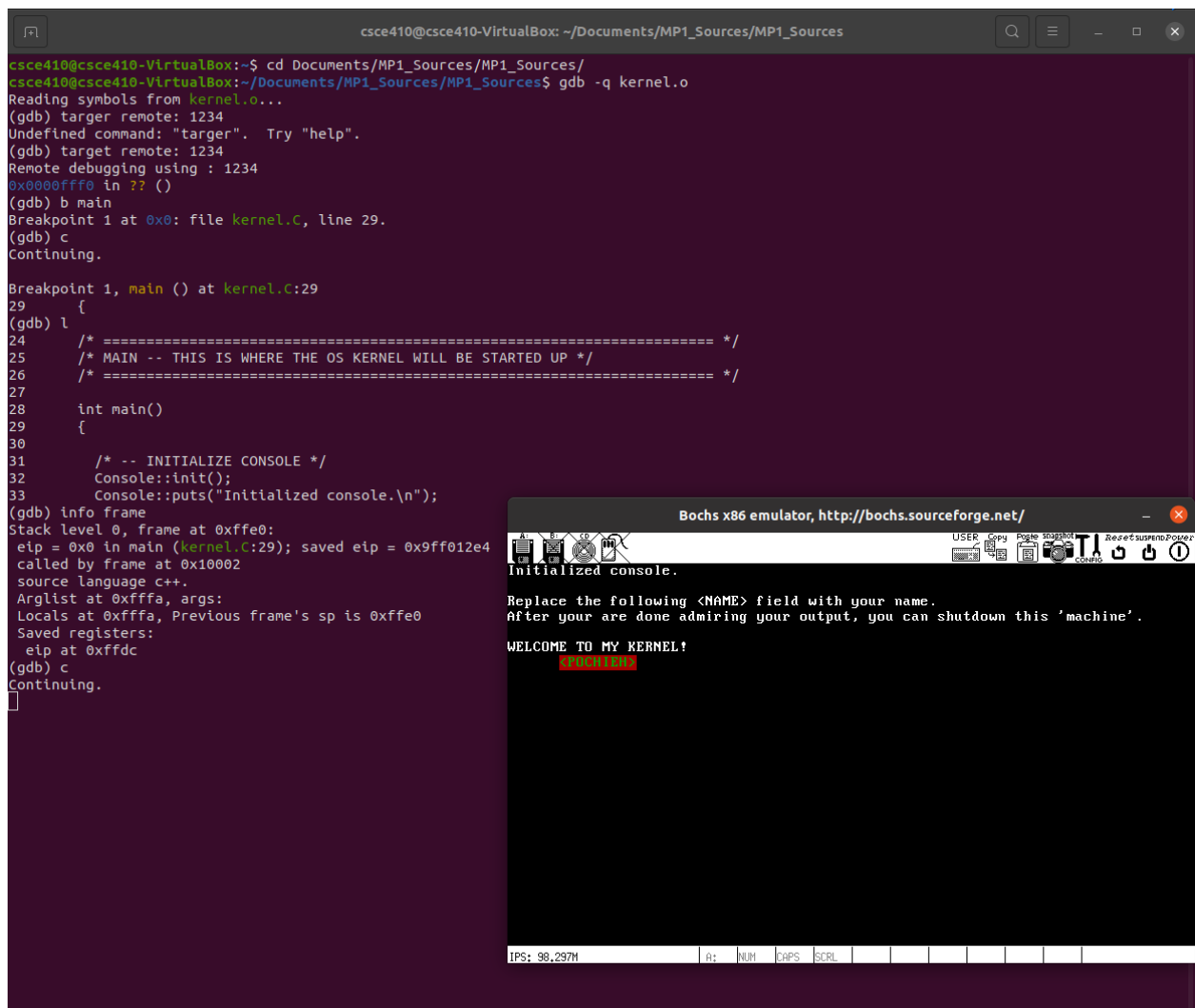


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I finished integrating Bochs with gdb by following the link provided in project resources (<https://people.engr.tamu.edu/bettati/Courses/OSProjects/to-use-gdb-tools.pdf>). At first, I downloaded boch and executed the configuration. I met a problem with x11 (X window). Fortunately, it was solved by following the command inside this file. I then modified and recompiled the files to set up gdb. In the end, I followed the command inside the images and the link provided (<http://wiki.yak.net/746>) to run and debug my project. The result is shown in the figure below.



```
csce410@csce410-VirtualBox: ~/Documents/MP1_Sources/MP1_Sources
csce410@csce410-VirtualBox:~$ cd Documents/MP1_Sources/MP1_Sources/
csce410@csce410-VirtualBox:~/Documents/MP1_Sources/MP1_Sources$ gdb -q kernel.o
Reading symbols from kernel.o...
(gdb) target remote: 1234
Undefined command: "target". Try "help".
(gdb) target remote: 1234
Remote debugging using : 1234
0x0000ff0 in ?? ()
(gdb) b main
Breakpoint 1 at 0x0: file kernel.C, line 29.
(gdb) c
Continuing.

Breakpoint 1, main () at kernel.C:29
29 {
(gdb) l
24 /* ===== */
25 /* MAIN -- THIS IS WHERE THE OS KERNEL WILL BE STARTED UP */
26 /* ===== */
27
28 int main()
29 {
30
31 /* -- INITIALIZE CONSOLE */
32 Console::init();
33 Console::puts("Initialized console.\n");
(gdb) info frame
Stack level 0, frame at 0xffe0:
 eip = 0x0 in main (kernel.C:29); saved eip = 0x9ff012e4
 called by frame at 0x10002
 source language c++.
 Arglist at 0xffffa, args:
 Locals at 0xffffa, Previous frame's sp is 0xffe0
 Saved registers:
  eip at 0xffdc
(gdb) c
Continuing.
```

```
Bochs x86 emulator, http://bochs.sourceforge.net/
USER: Copy Paste Shutdown Reset suspend Power
Initialized console.

Replace the following <NAME> field with your name.
After your are done admiring your output, you can shutdown this 'machine'.

WELCOME TO MY KERNEL!
FUCHENG

IPS: 98.237M  A: NUM CAPS SCRL
```