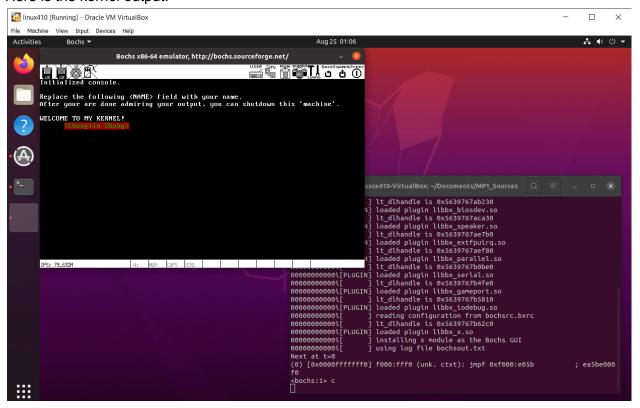
How to do:

- 1. Get into the MP1_sources directory and edit the kernel.C
- 2. Compiling source code by using 'make', and it will generate the kernel.bin file
- 3. After all source codes compile, we need to copy the kernel.bin onto the image by running the ./copykernel.sh
- 4. Starting with bochs and passing the configuration file by using 'echo c | bochs -f bochsrc.bxrc'
- 5. Here is the kernel output:



Integrating GDB with Bochs

- 1. In the makefile, add gcc -g for utils, console, and kernel
- 2. For linked.ld, remove the first line
- 3. For copykernel.sh and makefile, change all 'bin' to 'elf'. For example, kernel.bin to kernel.elf
- 4. Run the makefile by using make
- 5. Run ./copykernel.sh

- 6. For bochsrc.bxrc file, adding this line: gdbstub: enabled=1, port=1234, text_base=0, data_base=0, bss_base=0
- 7. For GDB tools with bochs, here is the link for how to set up: https://people.engr.tamu.edu/bettati/Courses/OSProjects/the_bochs_environment.pdf
- 8. Using bochs -f bochsrc.bxrc -q for bochs
- 9. Open a new terminal and run gdb kernel.elf and run (gdb) target remote:1234
- 10. Here is the output with kernel and gdb. On gdb terminal, using b main() and b kernel.C:line to set the breakpoint

