NJU□□□□2023□Lab1□□□□

□□: □□□
□□: 211220091
□□: 2023.9.24(□□□□)
□□: v1.0

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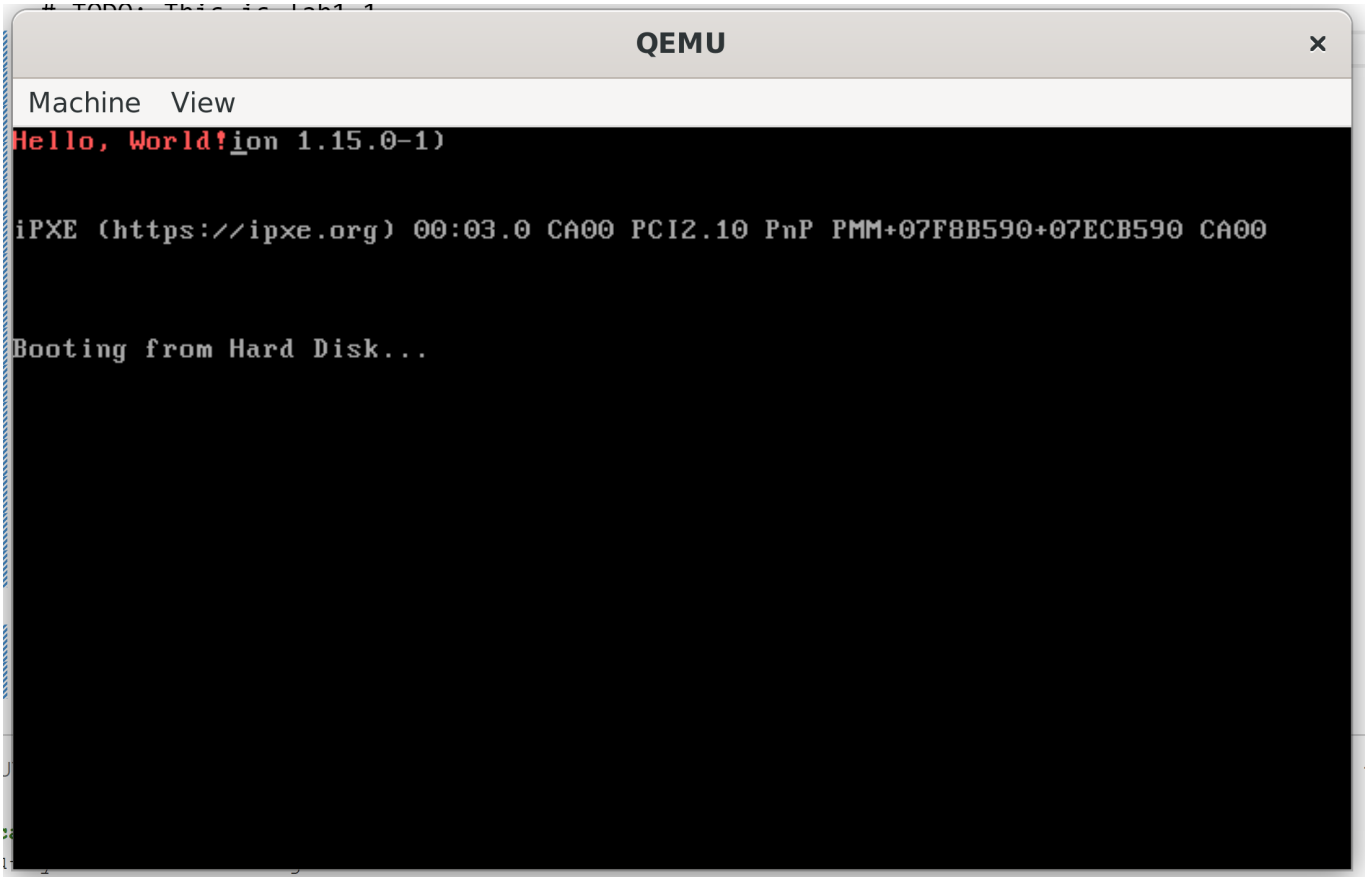
Lab1.1

□□□□□□□□□mbr.s□□□□□□□□□□□□□□



Lab1.2

□□□□□
□□start.s:

- □□□□□□□□□□□□□□□□□□□□
- □□cli□□□□□
- □□A20□□□□□□□1MB□□□□□:

```
in $0x92, %al
or $0x2, %al
out %al, $0x92
```

- □□GDTR□□□□□□□□□:

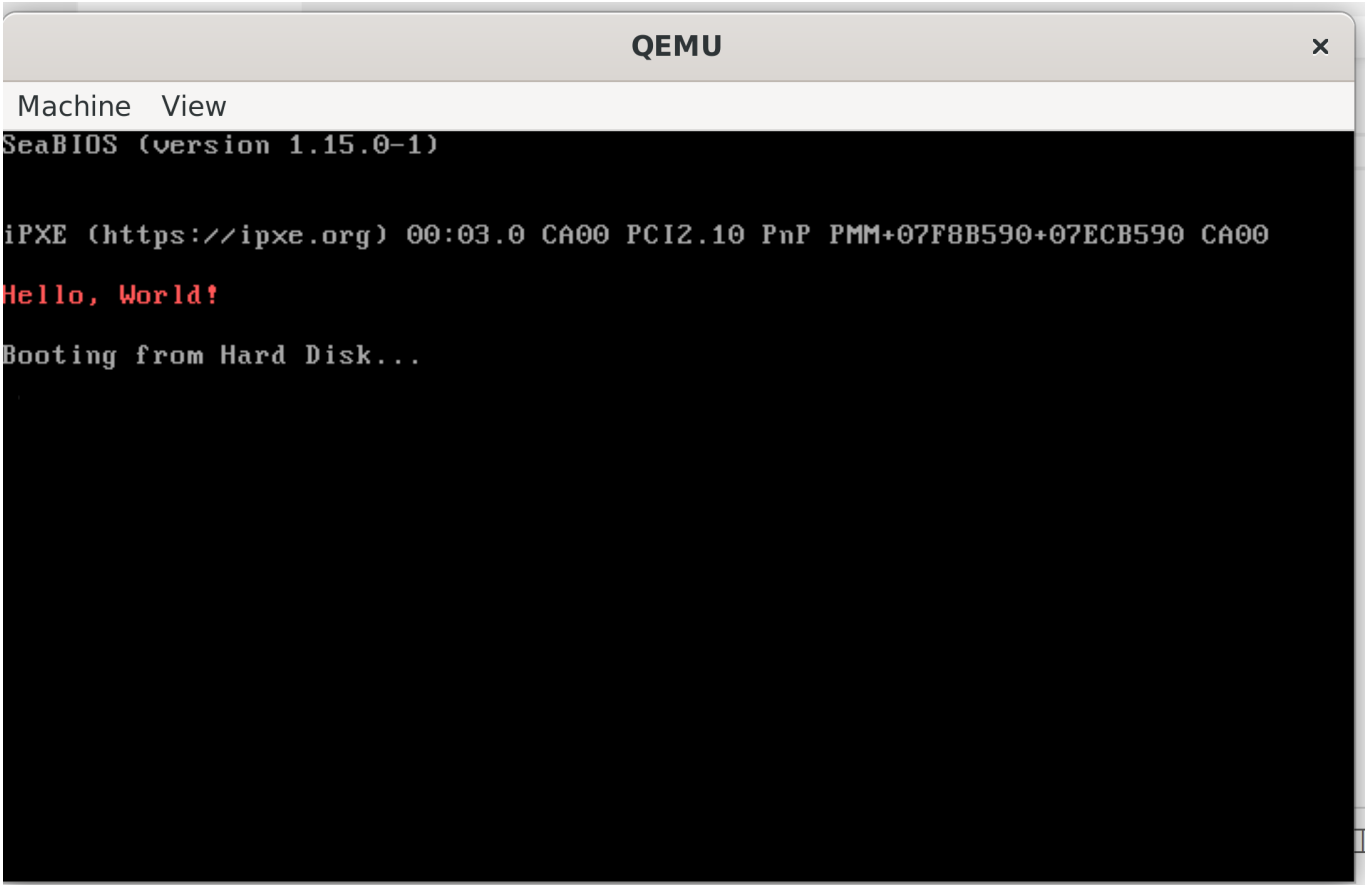
```
gdt:
 .word 0x0000                                #GDT□□□□□□□□□□
 .word 0x0000
 .word 0x0000
 .word 0x0000

 .word 0xffff                          #□□□□□□
 .word 0x0000
 .byte 0x00
 .byte 0x9a
 .byte 0xcf
 .byte 0x00

 .word 0xffff                          #□□□□□□
 .word 0x0000
 .byte 0x00
 .byte 0x92
 .byte 0xcf
 .byte 0x00

 .word 0xffff                                #□□□□□□
 .word 0x8000
 .byte 0x0b
 .byte 0x92
 .byte 0xcf
 .byte 0x00
```

  - □#0□□□□
  - □□□□□□□□(□□□□□□□)
- □cr0□PE□□□□□□□□□□□

```
movl %cr0, %eax
or $0x1, %eax
movl %eax, %cr0
```

- □□GDT□□□□□□□□□□□□□□□□□□□□□□□ESP□□□
- □□□□□□□□□□□□□□□□

□□□□:

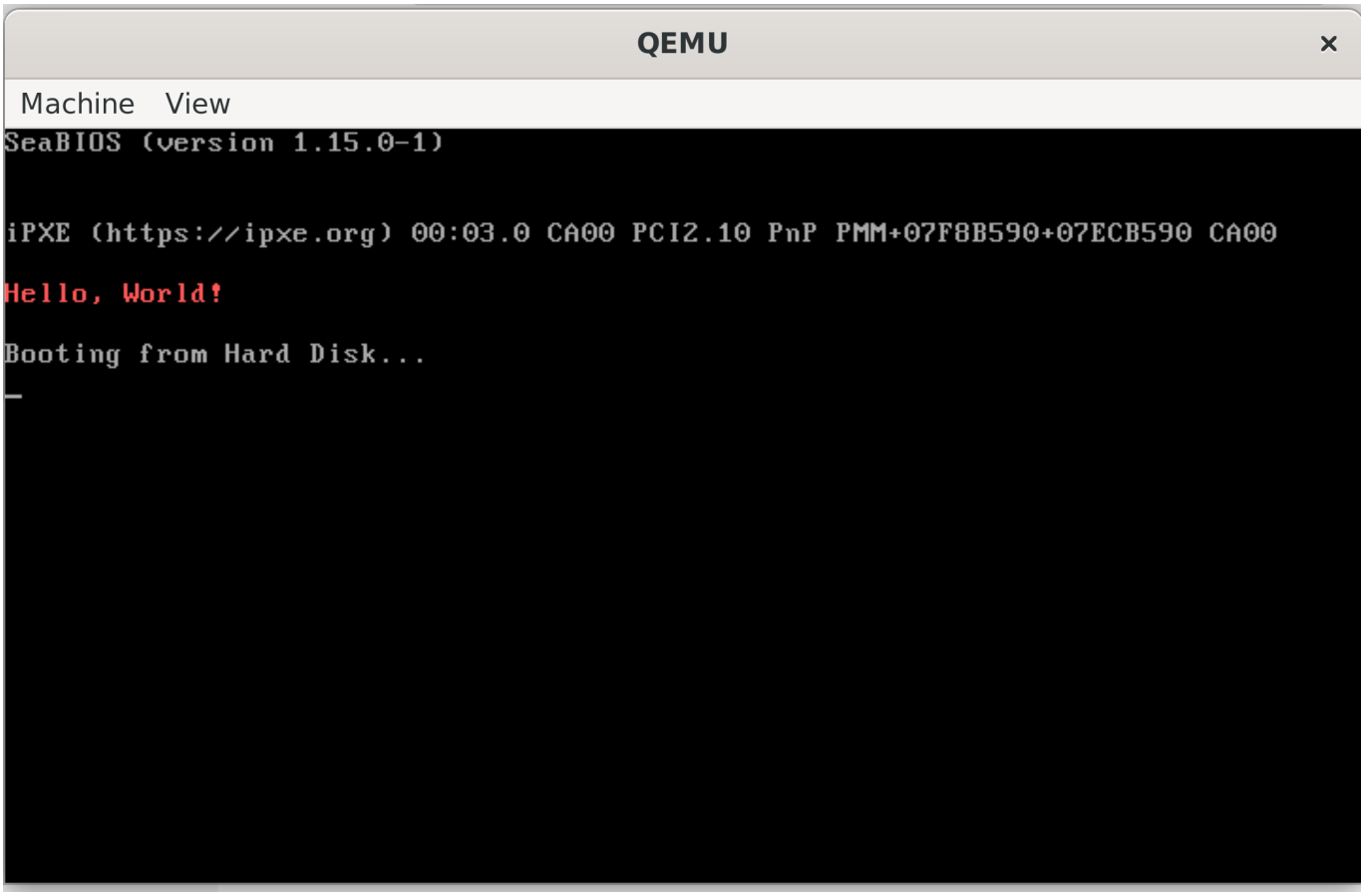


Lab1.3

start.s□□□□□Lab1.2
□□□□□□□□□□□□bootMain□□□□□□□□□□bootMain□□:

- □□□□□□□□□□□0x8c00□□
- □□□#1□□□□□□□□□□□(□□□□□□□)□□□0x8c00
- □□□□□□□□□
  □□□□□□□□□□□□□

□□□□□□:


QEMU
Machine View
SeaBIOS (version 1.15.0-1)
iPXE (https://ipxe.org) 00:03.0 CA00 PCI2.10 PnP PMM+07F8B590+07ECB590 CA00
Hello, World!
Booting from Hard Disk...

□□□

1

CPU: □□□□□□□