PRAKTIKUM SISTEM OPERASI

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LAPORAN MODUL 3

1. Ketik 'cmd' lanjut dengan 'CD OS', 'setpath', dan 'cd LAB/LAB3'

```
Microsoft Windows [Version 10.0.17134.1006]

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C:\Users\Ayudhia>cd C:\OS

C:\Users\Ayudhia>cd C:\OS

C:\Users\Ayudhia>cd C:\OS\Dev-Cpp\bin;C:\Us\Bochs-2.3.5;c:\Us\Perl;C:\Windows;C:\Windows\System32

C:\Users\Ayudhia>cd C:\Users\Ayudh
```

2. Ketik 'type s.bat'

```
Microsoft Windows [Version 10.0.17134.1006]
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C:\Users\Ayudhia>cd C:/OS

C:\OS>Setpath

C:\OS>Path-C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;C:\Windows;C:\Windows\System32

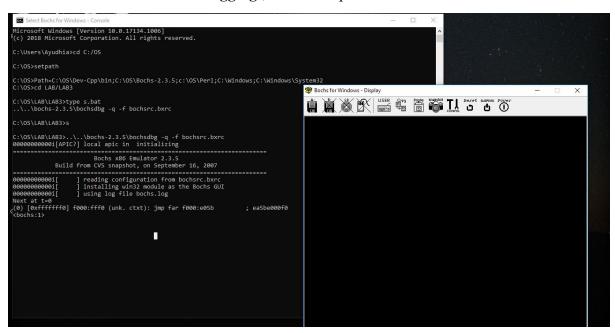
C:\OS>cal_AB/LAB3

C:\OS\LAB\LAB3>tpe s.bat
....\bochs-2.3.5\bochsdbg -q -f bochsrc.bxrc

C:\OS\LAB\LAB3>_

C:\OS\LAB\LAB3>_
```

3. Mulai melakukkan 'debugging', masukkan perintah 's'



4. Ketik 'r' untuk melihat isi register CS dan IP

```
### Sechs for Windows (Version 10.0.17134.1006)

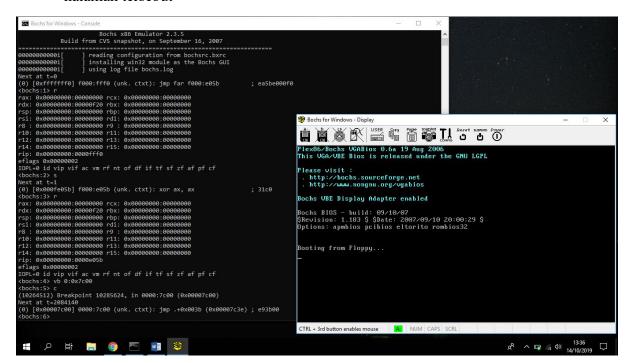
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C:\Users\Ayudhia>cd C:\OS

C:\Users\Ayudhia>cd C:\Users\Ayudhia>c
```

5. Mengeksekusi perintah tersebut

6. Kemudian masukkan perintah 'vc 0:0x7c00' untuk membuat pemberhentian di halaman tersebut



7. Ketik 'c' untuk melanjutkan, dan ketik 's' berulang sebanyak 10 kali dan lakukan pengecekan dengan file boot.asm

```
Bochs for Windows - Console
                                                                                                                                                                                : 0x00000000:00000000 r13: 0x00000000:00000000

: 0x000000001:00000000 r15: 0x00000000:00000000

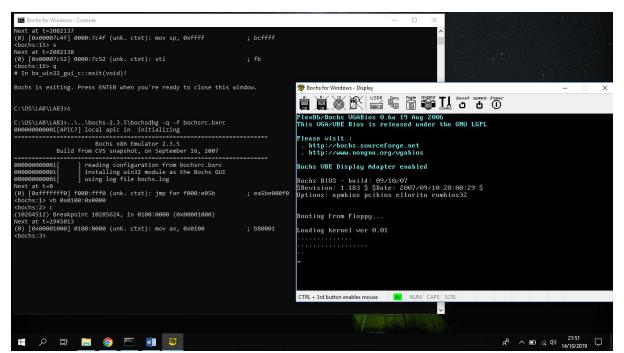
: 0x000000001:0000005

: 0x000000001

L0-0 id vip vif ac vm rf nt of df if tf sf zf af pf cf

ths:4y vb 0:0x7c00
      54512) Breakpoint 10285624, in 0000:7c00 (0x00007c00)
at t-2084140
              .2084140
007c00] 0000:7c00 (unk. ctxt): jmp .+0x003b (0x00007c3e) ; e93b00
    hs:7> s
at t=2084142
[0x00007c3f] 0000:7c3f (unk. ctxt): mov ax, 0x07c0
                                                                                                     ; b8c007
    [0x00007631] 0000.7631 (unk. ctxt). mov dx, 0xe
hs:8> 5
t at t=2084143
[0x00007642] 0000:7642 (unk. ctxt): mov ds, ax
                                                                                                      ; 8ed8
[0x00007c4]
hs:10> 5
c at t=2084145
[0x00007c46] 0000:7c46 (unk. ctxt): mov fs, ax
                                                                                                      ; 8ee0
  ) [0x00007c48] 0000:7c48 (unk. ctxt): mov 15, ax
ochs:11> s
xt at t=2084146
) [0x00007c48] 0000:7c48 (unk. ctxt): mov gs, ax
                                                                                                      ; 8ee8
    chs:12> s
t at t=2084147
[0x00007c4a] 0000:7c4a (unk. ctxt): mov ax, 0x0000
    ; 8ed0
    [0x00007c4f] 00007c4f (unk. ctxt): mov sp, 0xffff
[0x00007c4f] 0000:7c4f (unk. ctxt): mov sp, 0xffff
    [0X30007.-],
hh:i15> 5
t at t=2084150
[0X40007c52] 0000:7c52 (unk. ctxt): sti
chs:16> _
```

8. Ketik 'q' untuk menghentikan debugging. Kemudian lakukkan debugging lagi dengan cara ketik 's', kemudian ketik 'vb 0x0100:0x0000' utnuk menghentikan langkah saat PC melakukan eksekusi dari program 'kernel.bin' dan ketik 'c'



9. Ketik 's' sebanyak 10 kali, lalu bandingkan dengan isi file 'kernel.asm'

