

**PRAKTIKUM SISTEM OPERASI**

**MODUL 1 : PENGENALAN SISTEM PENGEMBANGAN OS DENGAN PC  
SIMULATOR 'BOCHS'**



**Disusun oleh:**

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## LANGKAH-LANGKAH :

```
Bochs for Windows - Console
c:\OS\LAB\LAB1>make fp.disk
nasm boot.asm -o boot.bin -f bin
dd if=boot.bin of=floppya.img
rawwrite dd for windows version 0.5.
Written by John Newbigin <jn@it.swin.edu.au>
This program is covered by the GPL. See copying.txt for details
1+0 records in
1+0 records out

c:\OS\LAB\LAB1>bximage
=====
                        bximage
                Disk Image Creation Tool for Bochs
          $Id: bximage.c,v 1.32 2006/06/16 07:29:33 wruppert Exp $
=====

Do you want to create a floppy disk image or a hard disk image?
Please type hd or fd. [hd] fd

Choose the size of floppy disk image to create, in megabytes.
Please type 0.16, 0.18, 0.32, 0.36, 0.72, 1.2, 1.44, 1.68, 1.72, or 2.88.
[1.44] 1.44
I will create a floppy image with
  cyl=80
  heads=2
  sectors per track=18
  total sectors=2880
  total bytes=1474560

What should I name the image?
[a.img] floppya.img

The disk image 'floppya.img' already exists. Are you sure you want to replace it?
Please type yes or no. [no] yes

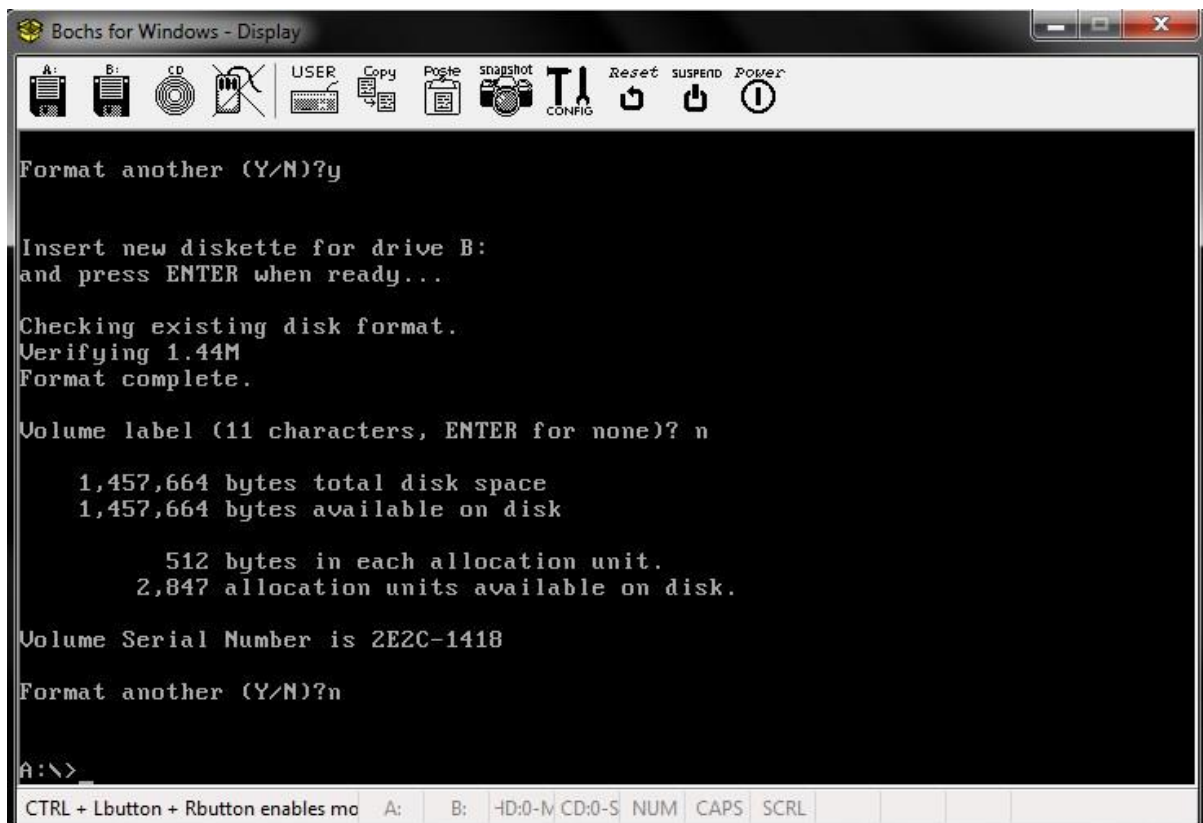
Writing: [ ] Done.

I wrote 1474560 bytes to floppya.img.

The following line should appear in your bochsrc:
  floppya: image="floppya.img", status=inserted
<The line is stored in your windows clipboard, use CTRL-U to paste>

Press any key to continue

c:\OS\LAB\LAB1>dosfp
c:\OS\LAB\LAB1>cd "..\..\Bochs-2.3.5\dos"
c:\OS\Bochs-2.3.5\dos>..\bochs -q -f bochsrc2.txt
000000000000i[APIC?] local apic in initializing
=====
                        Bochs x86 Emulator 2.3.5
                Build from CVS snapshot, on September 16, 2007
=====
000000000000i[      ] reading configuration from bochsrc2.txt
000000000000i[      ] installing win32 module as the Bochs GUI
```



C:\Windows\system32\cmd.exe

```
c:\OS\LAB\LAB1>cd "..\..\Bochs-2.3.5\dos"
```

```
c:\OS\Bochs-2.3.5\dos>..\bochs -q -f bochsrc2.txt
```

```
000000000000i[APIC?] local apic in initializing
```

```
Bochs x86 Emulator 2.3.5
Build from CVS snapshot, on September 16, 2007
=====
000000000000i[      ] reading configuration from bochsrc2.txt
000000000000i[      ] installing win32 module as the Bochs GUI
000000000000i[      ] using log file bochsout.txt
# In bx_win32_gui.c:exit(void)?
```

```
c:\OS\Bochs-2.3.5\dos>cd "C:\os\lab\lab1"
```

```
C:\OS\LAB\LAB1>tldump boot.bin
```

Turbo Dump Version 5.0.16.12 Copyright (c) 1988, 2000 Inprise Corporation  
Display of File BOOT.BIN

```

000000: E9 3B 00 51 55 41 53 49 2D 4F 53 00 02 01 01 00 .; QUASI-OS....
000010: 02 E0 00 40 0B F0 09 00 12 00 02 00 00 00 00 00 ...@.....
000020: 00 00 00 00 00 00 29 FF FF FF FF 51 55 41 53 49 ...>.....QUASI
000030: 20 20 42 4F 4F 54 46 41 54 31 32 20 20 20 FA B8 BOOTFAT12 ..
000040: C0 07 8E D8 8E C0 8E E0 8E E8 B8 00 00 8E D0 BC .....
000050: FF FF FB BE AE 01 E8 CB 00 31 C9 31 D2 B8 20 00 .....1.1....
000060: F7 26 11 00 F7 36 0B 00 91 A0 10 00 F7 26 16 00 .&...6.....&..
000070: 03 06 0E 00 A3 9F 01 01 0E 9F 01 BB 00 02 E8 B3 .....
000080: 00 8B 0E 11 00 BF 00 02 51 B9 0B 00 BE A3 01 57 .....Q.....W
000090: F3 A6 5F 74 0A 59 81 C7 20 00 E2 EC E9 79 00 BE .._t.y.....y..
0000A0: CB 01 E8 7F 00 8B 55 1A 89 16 A1 01 31 C0 A0 10 .....U.....1...
0000B0: 00 F7 26 16 00 89 C1 A1 0E 00 BB 00 02 E8 74 00 .&.....t....
0000C0: BE CB 01 E8 5E 00 B8 00 01 8E C0 BB 00 00 53 A1 .....^.....s..
0000D0: A1 01 5B E8 9C 00 31 C9 8A 0E 0D 00 E8 55 00 53 ...[...1.....U.S
0000E0: A1 A1 01 89 C1 89 C2 D1 EA 01 D1 BB 00 02 01 CB .....u.....
0000F0: 8B 17 A9 01 00 75 07 81 E2 FF 0F E9 03 00 C1 EA .....r.....
000100: 04 89 16 A1 01 81 FA F0 0F 72 C4 BE CB 01 E8 13 .....h..h.....
000110: 00 68 00 01 68 00 00 CB BE D0 01 E8 06 00 B4 00 .h..h.....
000120: CD 16 CD 19 AC 08 C0 74 0A B4 0E B7 00 B3 07 CD .....t.....
000130: 10 EB F1 C3 BF 05 00 50 53 51 E8 45 00 B4 02 B0 .....PSQ.E....
000140: 01 8A 2E 9E 01 8A 0E 9C 01 8A 36 9D 01 8A 16 24 .....6.....$
000150: 00 CD 13 73 0C 31 C0 CD 13 4F 59 5B 58 75 D8 CD ...s.1...OYXu...
000160: 18 BE CE 01 E8 BD FF 59 5B 58 03 1E 0B 00 40 E2 .....YIX.....@
000170: C3 C3 2D 02 00 31 C9 8A 0E 0D 00 F7 E1 03 06 9F ...-..1.....
000180: 01 C3 31 D2 F7 36 18 00 FE C2 88 16 9C 01 31 D2 ...1..6.....1...
000190: F7 36 1A 00 88 16 9D 01 A2 9E 01 C3 00 00 00 00 .6.....
0001A0: 00 00 00 4B 45 52 4E 45 4C 20 20 42 49 4E 0D 0A .....KERNEL BIN..
0001B0: 4C 6F 61 64 69 6E 67 20 6B 65 72 6E 65 6C 20 76 Loading kernel v
0001C0: 65 72 20 30 2E 30 31 20 0D 0A 00 0D 0A 00 2E 00 er 0.01 .....
0001D0: 0D 0A 45 52 52 4F 52 20 3A 20 50 72 65 73 73 20 ..ERROR : Press
0001E0: 41 6E 79 20 4B 65 79 20 74 6F 20 52 65 62 6F 6F Any Key to Reboo
0001F0: 74 00 00 00 00 00 00 00 00 00 00 00 00 55 A0 t.....ll

```

```
C:\OS\LAB\LAB1>
```

