

**LAPORAN PRAKTIKUM**  
**PRAKTIKUM SISTEM OPERASI**  
**MODUL 1**

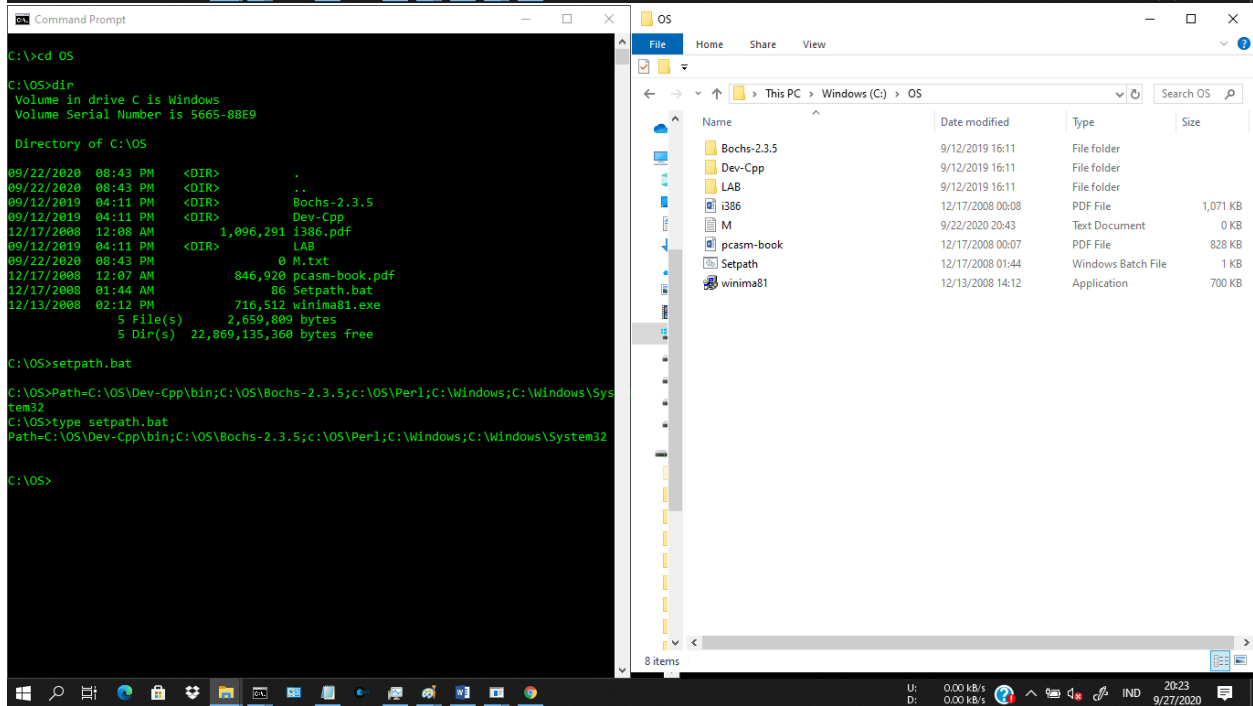
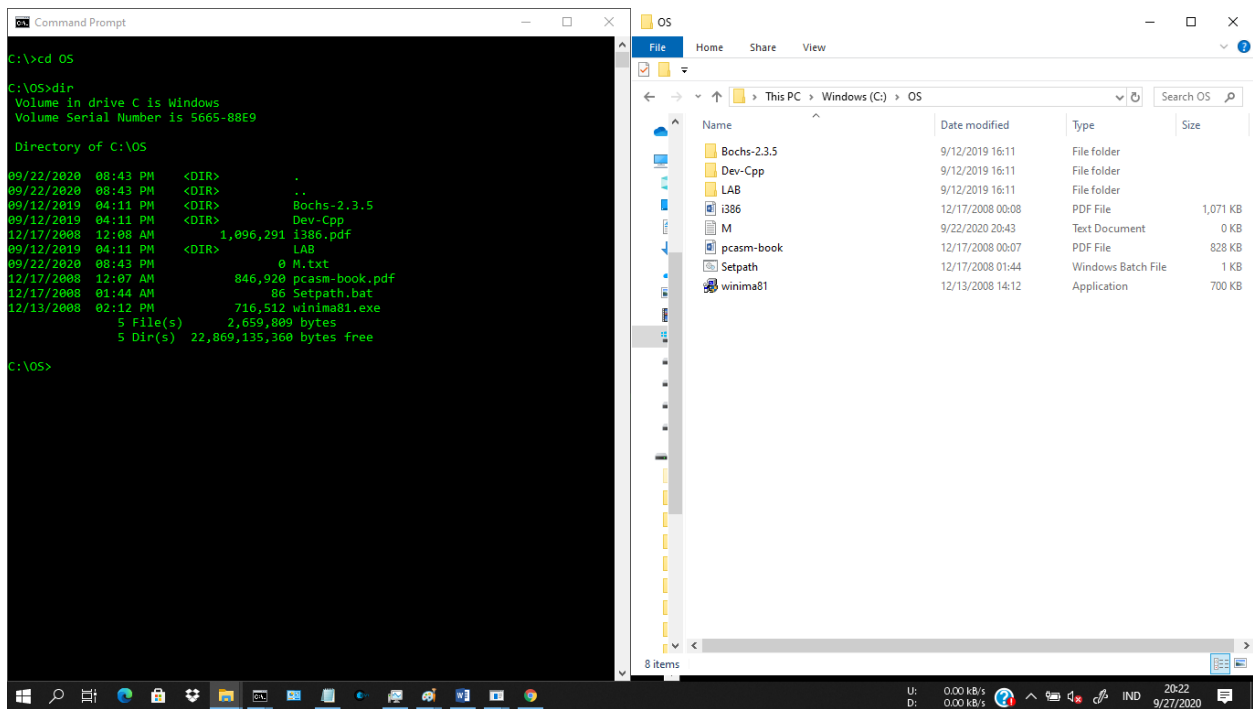


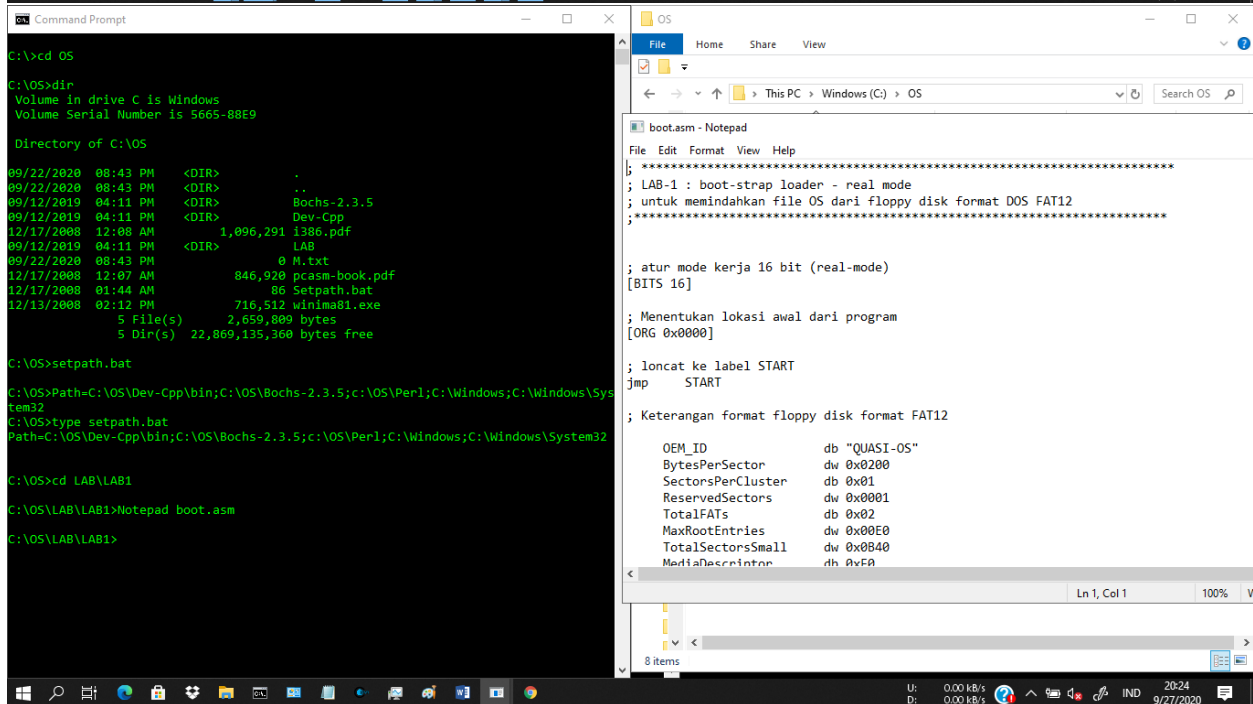
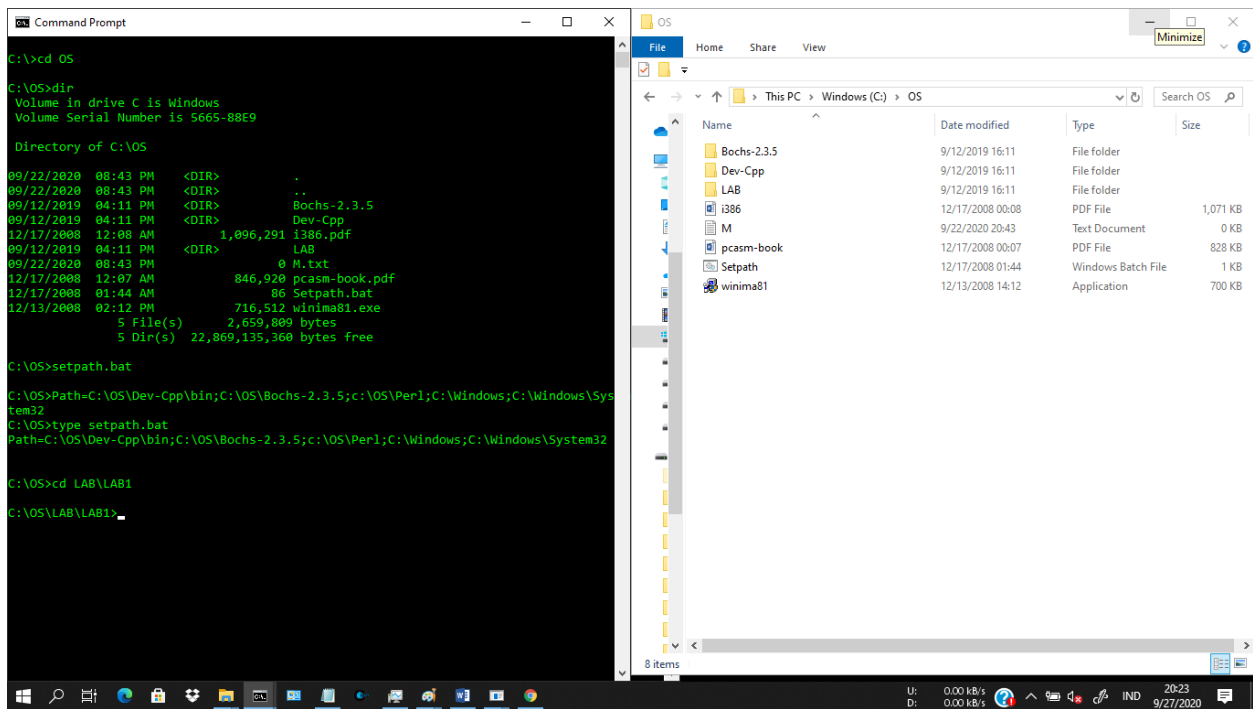
**Oleh:**

**NAMA: Adissa Tarra Istanarendra**

**NIM: L200190134**

**PRODI INFORMATIKA**  
**FAKULTAS KOMUNIKASI DAN INFORMATIKA**





Command Prompt

```
C:\>cd OS
C:\OS>dir
Volume in drive C is Windows
Volume Serial Number is 5665-88E9

Directory of C:\OS

09/22/2020  08:43 PM  <DIR>          .
09/22/2020  08:43 PM  <DIR>          ..
09/12/2019  04:11 PM  <DIR>          Bochs-2.3.5
09/12/2019  04:11 PM  <DIR>          Dev-Cpp
12/17/2008  12:08 AM             1,096,291  i386.pdf
09/12/2019  04:11 PM  <DIR>          LAB
09/22/2020  08:43 PM             0 M.txt
12/17/2008  12:07 AM      846,920 pcasm-book.pdf
12/17/2008  01:44 AM             86 Setpath.bat
12/13/2008  02:12 PM      716,512 winima81.exe
                    5 File(s)      2,659,809 bytes
                    5 Dir(s)    22,869,135,360 bytes free

C:\OS>setpath.bat
C:\OS>Path=C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;c:\Windows;C:\Windows\System32
C:\OS>type setpath.bat
Path=C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;c:\Windows;C:\Windows\System32

C:\OS>cd LAB\LAB1
C:\OS\LAB\LAB1>Notepad boot.asm
C:\OS\LAB\LAB1>Notepad Makefile
C:\OS\LAB\LAB1>
```

OS

File Home Share View

< > < This PC > Windows (C:) > OS

Name Date modified Type Size

Bochs-2.3.5 9/12/2019 16:11 File folder

Makefile - Notepad

File Edit Format View Help

```
#
# LAB01 - Makefile
#

fp.disk: boot
dd if=boot.bin of=floppya.img

boot: boot.asm
nasm boot.asm -o boot.bin -f bin

kernel: kernel.asm
nasm kernel.asm -o kernel.bin -f bin

clean:
rm -f *.bin boot kernel
```

Ln 1, Col 1 100%

8 items

Command Prompt

```
12/17/2008  12:07 AM      846,920 pcasm-book.pdf
12/17/2008  01:44 AM             86 Setpath.bat
12/13/2008  02:12 PM      716,512 winima81.exe
                    5 File(s)      2,659,809 bytes
                    5 Dir(s)    22,869,135,360 bytes free

C:\OS>setpath.bat
C:\OS>Path=C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;c:\Windows;C:\Windows\System32
C:\OS>type setpath.bat
Path=C:\OS\Dev-Cpp\bin;C:\OS\Bochs-2.3.5;c:\OS\Perl;c:\Windows;C:\Windows\System32

C:\OS>cd LAB\LAB1
C:\OS\LAB\LAB1>Notepad boot.asm
C:\OS\LAB\LAB1>Notepad Makefile

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
140 records in
140 records out

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

OS

File Home Share View

< > < This PC > Windows (C:) > OS

Name Date modified Type Size

Bochs-2.3.5 9/12/2019 16:11 File folder

Dev-Cpp 9/12/2019 16:11 File folder

LAB 9/12/2019 16:11 File folder

i386 12/17/2008 00:08 PDF File 1,071 KB

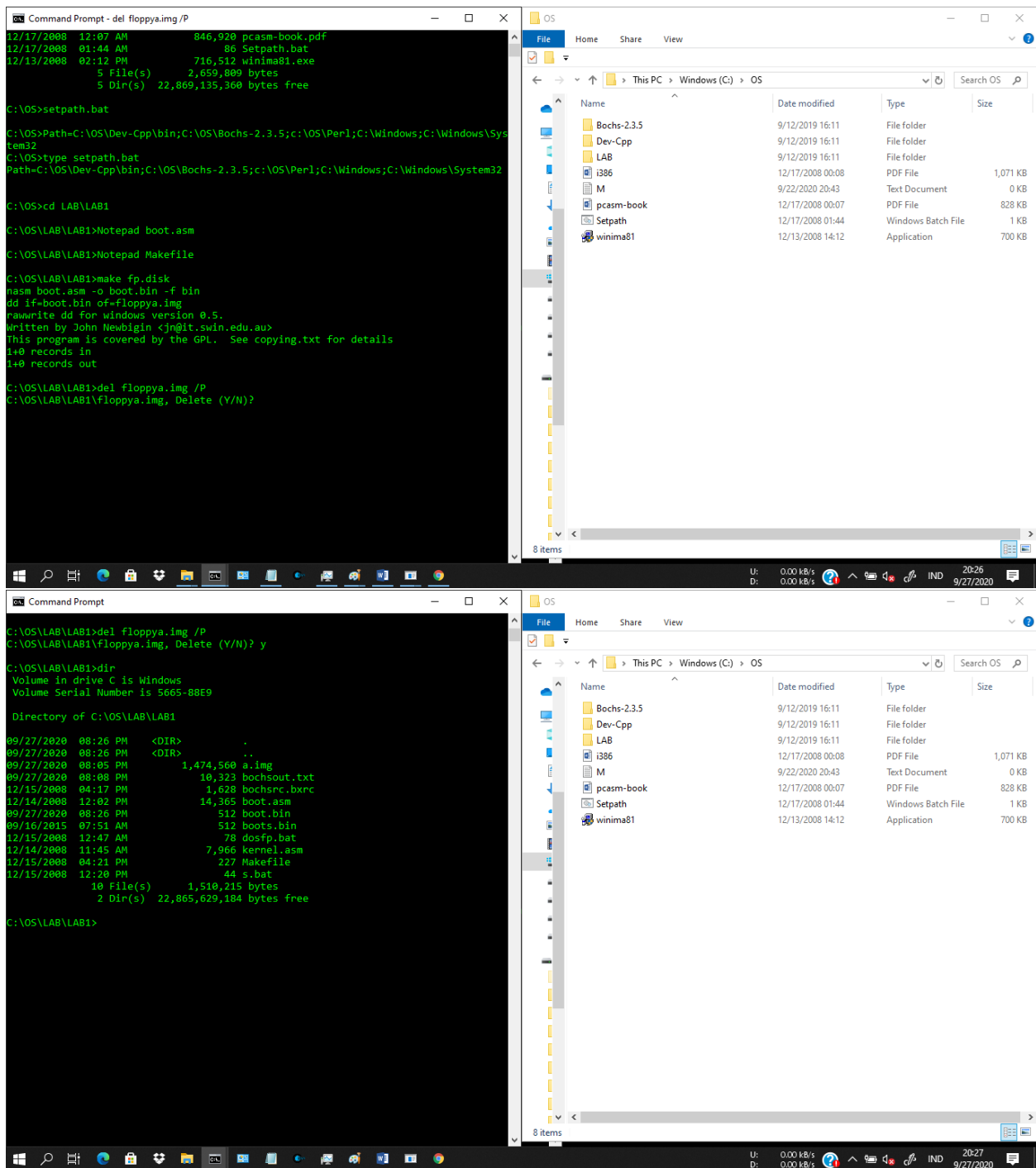
M 9/22/2020 20:43 Text Document 0 KB

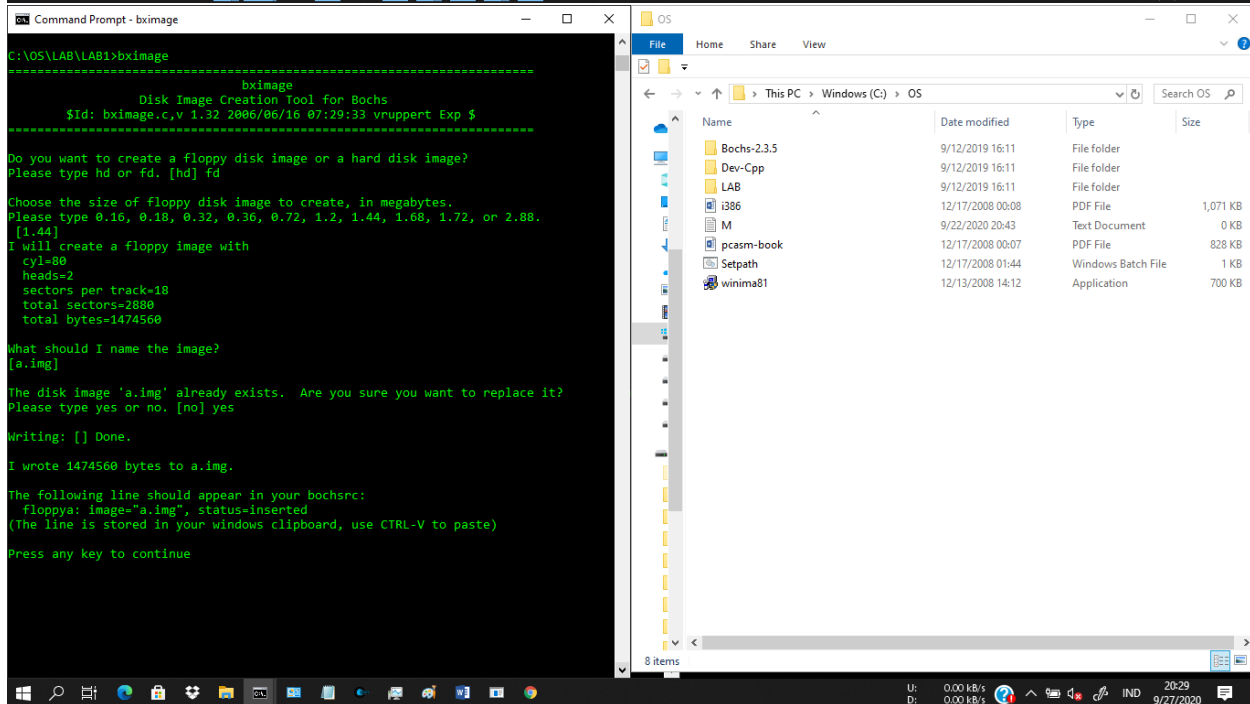
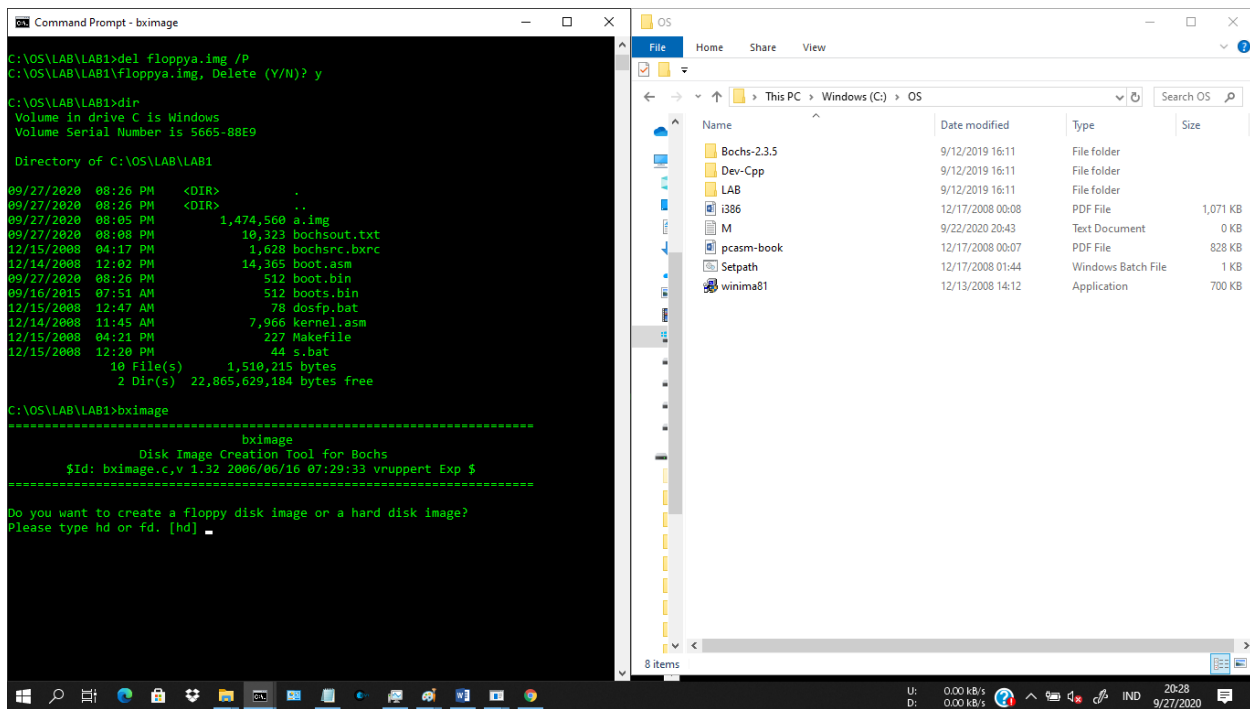
pcasm-book 12/17/2008 00:07 PDF File 828 KB

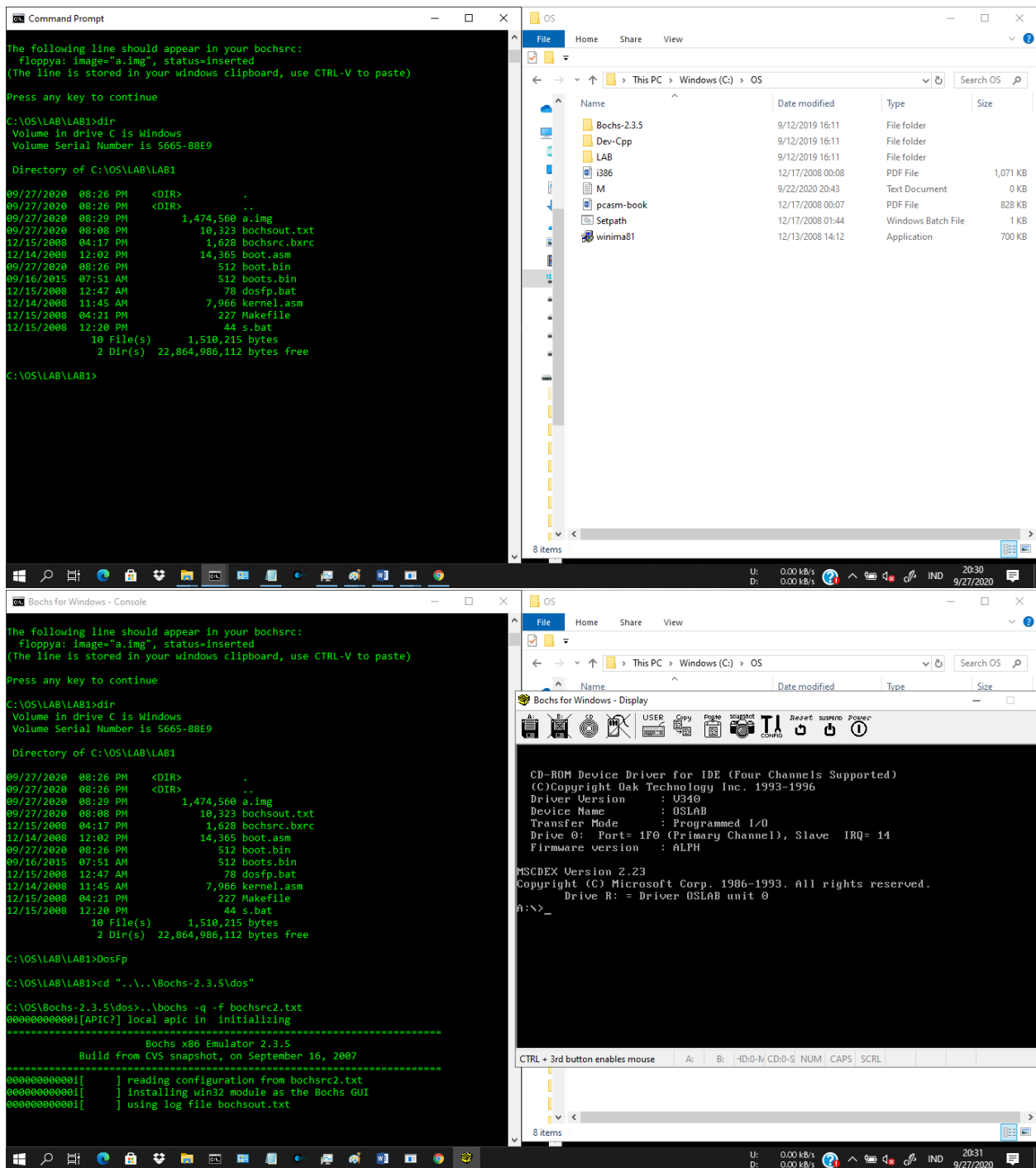
Setpath 12/17/2008 01:44 Windows Batch File 1 KB

winima81 12/13/2008 14:12 Application 700 KB

8 items







Command Prompt

Bochs is exiting. Press ENTER when you're ready to close this window.

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

C:\OS\LAB\LAB1>tdump boots.bin

Turbo Dump Version 5.0.16.12 Copyright (c) 1988, 2000 Inprise Corporation

Display of File #00T5.BIN

000000: EB 3C 90 4D 53 57 49 4E 34 2E 31 00 02 01 01 00 .<.MSWIN4.1....

000010: 02 E0 00 40 08 F0 09 00 12 00 02 00 00 00 00 00 ...@.....

000020: 00 00 00 00 00 00 29 E7 0F 15 2C 4E 4F 20 4E 41 .....NO NA

000030: 4D 45 20 20 20 20 46 41 54 31 32 20 20 20 33 C9 ME FAT12 3.

000040: 8E D1 BC FC 7B 16 07 BD 78 00 C5 76 00 1E 56 16 ....X.V..V.

000050: 55 BF 22 05 09 7E 00 09 4E 02 01 00 FC F3 A4 06 U...E..BNS)...

000060: 1F BD 00 7C C6 45 FE 0F 38 4E 24 70 20 88 C1 99 ...E..BNS)...

000070: 8E 7E 01 83 EB 3A 66 A1 1C 7C 66 3B 07 8A 57 FC .....f..f..M.

000080: 75 06 80 CA 02 88 56 02 80 C3 10 73 ED 33 C9 FE u...V.....s.3..

000090: 06 D8 7D BA 46 10 98 F7 66 16 03 46 1C 13 56 1E ...F...F..F..V.

0000A0: 03 46 0E 13 D1 88 76 11 60 89 46 FC 89 56 FE B8 .F...V..F..V..

0000B0: 20 00 F7 E6 88 5E 0B 03 C3 48 F7 F3 01 46 FC 11 .....H..F..

0000C0: 4E FE 61 BF 00 07 E8 28 01 72 3E 3B 2D 74 17 60 N.a....(r)x8-t..

0000D0: 81 0B BE D8 7D F3 A6 61 74 3D 4E 74 09 83 C7 20 ....).at=Nt....

0000E0: 3B FB 72 E7 EB DD FE 0E D8 7D 7B A7 BE 7F 7D AC ;.r.....){...}

0000F0: 98 03 F0 AC 98 40 74 0C 48 74 13 B4 0E BB 07 00 ....@.Ht.....

000100: CD 10 EB EF 8E 82 7D EB E6 BE 80 7D EB E1 CD 16 .....}{...E.

000110: 5E 1F 66 BF 04 CD 19 BE 81 7D 8B 7D 1A 8D 45 FE ^f.....}{...E.

000120: 8A 4E 00 F7 E1 03 46 FC 13 56 FE B1 04 E8 C2 00 .N...F..V.....

000130: 72 D7 EA 00 02 70 00 52 50 06 53 6A 01 6A 10 91 p...p.RP.Sj.j..

000140: 88 46 18 A2 26 05 96 92 33 D2 F7 F6 91 F7 F6 42 .F.&...3.....B

000150: 87 CA F7 76 1A 8A F2 8A E8 C0 CC 02 0A CC 88 01 ...V.....

000160: 02 80 7E 02 0E 75 04 B4 42 8B F4 8A 56 24 CD 13 ...u..B..V\$..

000170: 61 61 72 0A 40 75 01 42 03 5E 08 49 75 77 C3 03 aar@u.B.^Iuw..

000180: 18 01 27 00 0A 49 6E 76 61 6C 69 64 20 73 79 73 ...Invalid sys

000190: 74 65 6D 20 64 69 73 6B FF 0D 0A 44 69 73 6B 20 tem disk...Disk

0001A0: 49 2F 4F 20 65 72 72 6F 72 FF 0D 0A 52 65 70 6C I/O error...Repl

0001B0: 61 63 65 20 74 68 65 20 64 69 73 6B 2C 20 61 6E ace the disk, an

0001C0: 64 20 74 68 65 20 72 65 73 73 20 61 6E 79 d then press any

0001D0: 20 68 65 79 00 0A 00 00 49 4F 20 20 20 20 20 20 key....IO

0001E0: 53 59 53 40 53 44 4F 53 20 20 20 53 59 53 7F 01 SYSMSDOS SYS..

0001F0: 00 41 8B 00 07 60 66 6A 00 E9 3B FF 00 00 55 AA .A...fj...U.

C:\OS\LAB\LAB1>

OS

File Home Share View

File Explorer

This PC > Windows (C:) > OS

Search OS

Bochs-2.3.5 9/12/2019 16:11 File folder

Dev-Cpp 9/12/2019 16:11 File folder

LAB 9/12/2019 16:11 File folder

i386 12/17/2008 00:08 PDF File 1,071 KB

M 9/22/2020 20:43 Text Document 0 KB

pcasm-book 12/17/2008 00:07 PDF File 828 KB

Setpath 12/17/2008 01:44 Windows Batch File 1 KB

winima81 12/13/2008 14:12 Application 700 KB

8 items

Bochs for Windows - Console

000050: 55 BF 22 05 09 7E 00 09 4E 02 01 00 FC F3 A4 06 U...E..BNS)...

000060: 1F BD 00 7C C6 45 FE 0F 38 4E 24 70 20 88 C1 99 ...E..BNS)...

000070: 8E 7E 01 83 EB 3A 66 A1 1C 7C 66 3B 07 8A 57 FC .....f..f..M.

000080: 75 06 80 CA 02 88 56 02 80 C3 10 73 ED 33 C9 FE u...V.....s.3..

000090: 06 D8 7D BA 46 10 98 F7 66 16 03 46 1C 13 56 1E ...F...F..F..V.

0000A0: 03 46 0E 13 D1 88 76 11 60 89 46 FC 89 56 FE B8 .F...V..F..V..

0000B0: 20 00 F7 E6 88 5E 0B 03 C3 48 F7 F3 01 46 FC 11 .....H..F..

0000C0: 4E FE 61 BF 00 07 E8 28 01 72 3E 3B 2D 74 17 60 N.a....(r)x8-t..

0000D0: 81 0B BE D8 7D F3 A6 61 74 3D 4E 74 09 83 C7 20 ....).at=Nt....

0000E0: 3B FB 72 E7 EB DD FE 0E D8 7D 7B A7 BE 7F 7D AC ;.r.....){...}

0000F0: 98 03 F0 AC 98 40 74 0C 48 74 13 B4 0E BB 07 00 ....@.Ht.....

000100: CD 10 EB EF 8E 82 7D EB E6 BE 80 7D EB E1 CD 16 .....}{...E.

000110: 5E 1F 66 BF 04 CD 19 BE 81 7D 8B 7D 1A 8D 45 FE ^f.....}{...E.

000120: 8A 4E 00 F7 E1 03 46 FC 13 56 FE B1 04 E8 C2 00 .N...F..V.....

000130: 72 D7 EA 00 02 70 00 52 50 06 53 6A 01 6A 10 91 p...p.RP.Sj.j..

000140: 88 46 18 A2 26 05 96 92 33 D2 F7 F6 91 F7 F6 42 .F.&...3.....B

000150: 87 CA F7 76 1A 8A F2 8A E8 C0 CC 02 0A CC 88 01 ...V.....

000160: 02 80 7E 02 0E 75 04 B4 42 8B F4 8A 56 24 CD 13 ...u..B..V\$..

000170: 61 61 72 0A 40 75 01 42 03 5E 08 49 75 77 C3 03 aar@u.B.^Iuw..

000180: 18 01 27 00 0A 49 6E 76 61 6C 69 64 20 73 79 73 ...Invalid sys

000190: 74 65 6D 20 64 69 73 6B FF 0D 0A 44 69 73 6B 20 tem disk...Disk

0001A0: 49 2F 4F 20 65 72 72 6F 72 FF 0D 0A 52 65 70 6C I/O error...Repl

0001B0: 61 63 65 20 74 68 65 20 64 69 73 6B 2C 20 61 6E ace the disk, an

0001C0: 64 20 74 68 65 20 72 65 73 73 20 61 6E 79 d then press any

0001D0: 20 68 65 79 00 0A 00 00 49 4F 20 20 20 20 20 20 key....IO

0001E0: 53 59 53 40 53 44 4F 53 20 20 20 53 59 53 7F 01 SYSMSDOS SYS..

0001F0: 00 41 8B 00 07 60 66 6A 00 E9 3B FF 00 00 55 AA .A...fj...U.

C:\OS\LAB\LAB1>type s.bat

..\..\bochs-2.3.5\bochs -q -f bochssrc.bxrc

C:\OS\LAB\LAB1>

C:\OS\LAB\LAB1>..\..\bochs-2.3.5\bochs -q -f bochssrc.bxrc

000000000000[APIC?] local apic in Initializing

=====

Bochs x86 Emulator 2.3.5

Build from CVS snapshot, on September 16, 2007

=====

000000000000[ ] reading configuration from bochssrc.bxrc

000000000000[ ] installing win32 module as the Bochs GUI

000000000000[ ] using log file bochsout.txt

OS

File Home Share View

Bochs for Windows - Display

Plex86/Bochs VGABios 0.6a 19 Aug 2006

This VGA/VBE Bios is released under the GNU LGPL

Please visit :

.. <http://bochs.sourceforge.net>

.. <http://www.nongnu.org/vgabios>

Bochs VBE Display Adapter enabled

Bochs BIOS - build: 09/10/07

\$Revision: 1.183 \$ \$Date: 2007/09/10 20:00:29 \$

Options: apmbios pcibios eltorito rombios32

Booting from Floppy...

Boot from Floppy failed: could not read the boot disk

FATAL: No bootable device.

CTRL + 3rd button enables mouse

A: NUM CAPS SCRL

8 items 1 item selected



