Installing MS-DOS 6.22 in VMware Fusion 2.0

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NOTICE: The following instructions worked for me when I installed MS-DOS 6.22 using VMware Fusion version 2.0 running under Macintosh Operating System 10.5. I make no warranties about your success on your machine, and I do *not* provide free consulting to computer users. Do *not* use these instructions, unless you understand them.

make images of floppy disks on the hard drive use three Microsoft install floppies

- 1. Launch Apple / Applications / Utilities / Disk Utility
- 2. Insert Microsoft MS-DOS 6.22 "Disk 1 Setup" in the USB floppy drive
- 3. Select "Disk 1" in the menu of devices on the left, in the line under the floppy drive
- 4. Pull down File menu, select New, and select "Disk image from (Disk 1)" or click on "New Image" in the horizontal row of icons across the top
- Save As = use default name Where = Desktop Image Format = DVD/CD master Encryption = none
- 6. Click SAVE button to create an image file
- 7. when finished, click on floppy icon on desktop, then choose "eject" from File menu in Finder

repeat for the other two MS-DOS installation disks, then quit Disk Utility

Create a folder in your user files on the hard disk, with folder name "MS-DOS disk images", and move all three *.cdr files from the desktop to this new folder.

Change the file extension of each of the three files from *.cdr to *.flp

install VMware Fusion2.0

- insert install disk and click on install insert serial number click VMware Fusion CD on desktop and choose File/Eject from the Finder remove VMware Fusion CD
- Launch VMware Fusion Window titled "Virtual Machine Library" will open, or click Window in the menu at the top, then click on Virtual Machine Library
- 3. click NEW in lower left corner of Virtual Machine Library window click "continue without disk"
- 4. Select "create a custom virtual machine" click Continue
- 5. Operating System = Other Version = MS-DOS click Continue

Virtual Machine has the following default settings: 16 Mbytes of memory, 8 GB maximum disk size shared networking (NAT) and automatically detected CD/DVD click Finish click Save

- 6. black screen will open, and after a minute the window "no bootable device was detected" will appear. Click OK on the "no bootable device" window.
- click Shut Down on horizontal row of icons at top In the Fusion menu bat at the top, pull down Virtual Machine, then Settings click on Hard Disks <u>un</u>check "split into 2 GB files", maximum disk size = 8 Gbytes, and click apply click red button in top left corner

Consider formatting the hard drive in the virtual machine, using alternate instructions on page 4, below.

- 8. In the Fusion menu bat at the top, pull down Virtual Machine, then Settings click the + icon in the horizontal row at the top choose Add Floppy select the Disk 1.flp file name from the folder on the hard disk window will show check mark by Connected, and will say "Use Floppy Image:" with selected filename click red button on top left corner
- 9. In the Fusion menu bar at the top, pull down Virtual Machine, then Start Up Guest blue screen will appear with heading "Microsoft MS-DOS 6.22 Setup" choose "Format this drive" and press [Return/Enter]

27% of the way through the installation, setup will ask for the second floppy in A:

SUSPEND (*not* shut down) the guest machine, in floppy settings: choose DISK 2.flp, then resume guest machine, and after the momentary restoring window, press [Return/Enter]

at 68% of the way through the installation, setup will ask for the third floppy in A:

SUSPEND (*not* shut down) the guest machine, in floppy settings: choose DISK 3.flp, then resume guest machine, and after the momentary restoring window, press [Return/Enter]

Microsoft setup tells you to remove all floppy disks, then press [Return/Enter], but do *not* press [Enter]

SUSPEND the guest machine, pull down the Virtual Machine menu, choose Floppy, choose Disconnect Floppy (to disable booting from the disk image)

resume the guest machine and press [Return/Enter] see the message on the black screen "Starting MS-DOS..." as the virtual machine boots from the C: drive

10. shut down the virtual machine, pull down the Virtual Machine menu, choose Settings, click on USB, choose both "enable USB2 support" and "automatically connect USB devices", and click the red button in the upper left corner,

pull down the Virtual Machine menu, choose Floppy, click on Disconnect Floppy, then start up the virtual machine. (now the machine will always boot from the virtual C: drive)

ALTERNATE METHOD make a bootable floppy for DOS

On a computer running DOS, make a bootable floppy disk with the DOS command		
FORMAT A: /S		
name the disk "BOOT"		
COPY C:\DOS\FDISK.EXE	A:*.*	
COPY C:\DOS\FORMAT.COM	A:*.*	
The Macintosh directory will show the following two hidden DOS files:		
io.sys		
msdos.sys		
and		
command.com		
format.com		
fdisk.exe		

Make an image of the floppy according to the instructions on page 1 here and rename this image BOOT.FLP

Do steps 1-8 on page 2, but enter the filename BOOT.FLP in step 8. The first thing to do is to partition the virtual hard disk. At the DOS prompt, enter

FDISK	
enter choice $= 1$	create DOS partition
enter choice $= 1$	create primary DOS partition
enter choice = Y	maximum available size (2047 Mbytes) and make the partition active

FDISK	
enter choice $= 1$	create DOS partition or Logical DOS drive
enter choice $= 2$	create extended DOS partition
enter 2047 MB and press [RI	ETURN]

Now format the two hard drives, using the unconditional format.

FORMAT C: /U /S /V:programs FORMAT D: /U /V:data

other

Fusion will install a folder in the hard disk drive in the

Users / Username / Documents / Virtual Machines

Inside that folder is a file with extension .vmwarevm that contains the virtual machine and all of its installed files.

This document is at **www.rbs0.com/vm_dos.pdf** created 8 Mar 2009, revised 9 Mar 2009

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