Windows Me Setup Log Files

OBJECTIVES

- **1.** Locate log files in Windows Millennium.
- **2.** Create and examine the log file BOOTLOG.TXT.
- **3.** Examine the log file DETLOG.TXT.
- **4.** Examine the log file NETLOG.TXT.
- **5.** Examine the log file SETUPLOG.TXT.

RESOURCES

- 1. Marcraft 8000 Trainer
- 2. Windows Millennium installed on hard drive

DISCUSSION

The Windows Me operating system maintains a number of log files that track system performance and can be used to assess system failures. These log files are SETUPLOG.TXT, NETLOG.TXT, and DETLOG.TXT and are stored in the system's root directory. All three are text files that can be viewed with a text editor such as WordPad and can be printed out. These filenames are indicative of the types of information they log. During a Logged mode startup, the system will attempt to boot in Normal mode, but will keep an error log file called BOOTLOG.TXT (Bootup Log) that tracks the events of the startup procedure and the outcome of those events. Similarly, the SETUPLOG.TXT (Installation and Setup Log) file tracks the events of the Installation and/or Setup process. The DETLOG.TXT (Detection Log) file monitors the presence of detected hardware devices and identifies the parameters for them. Likewise, the NETLOG.TXT (Network Log) file monitors the installation and configuration of your network connection.

WARNING

Unless specifically instructed to do so, do not save any changes to the information contained in these four files.



Troubleshooting



PROCEDURE

Troubleshooting BOO

BOOTLOG.TXT

The BOOTLOG.TXT file contains the sequence of events conducted during the system startup, and is located in the root directory (C:\). A boot log can be created by pressing the SHIFT + F8 keys during startup, or by starting Windows Me at the command prompt using the Windows Me Startup disk.

1. Create a BOOTLOG.TXT file at startup

- a. Turn on the power to the system.
- ____b. Select Windows Millennium and press the ENTER key.
- c. Press and hold down the CTRL key.
- d. Press the DOWN ARROW key to highlight "2. Logged (\BOOTLOG.TXT)", and press the ENTER key.

2. Locate the log files with the Search tool

- a. Use the path Start\Search, and then select Files or Folders.
- b. Make certain that the C: drive is selected in the Look in box.
- **C.** In the "Named" box, type ***log.txt**, and click the Search Now button. Your window will look similar to Figure 28-1.

Search Results				
Ele Edit View Favorites Iools Help				
+ Back - → - → → Search + Folders - ★ History BS = 1 → - → - → - → - → - → - → - → - → - →				
Address (a) Search Besults				▼ a2 Go
The second state of the se				
Search ×	Name	In Folder	Size	Туре
🔆 New 🥔	BOOTLOG.TXT	CA	52 KB	Text Document
B. Course for Films and Folders	DETLOG.TXT		48 KB	Text Document
Search for Flies and Folders	INETLUG.IXI		22 KB	Text Document
Country (or Characteria)	BETUPLUG.TXT	UN CLD a superstantia and Californi Administrated Application Data Miss	183 KB	Text Document
Search for files of folders hamed:	BRNDLUG.IXI	C: Documents and Settings Administrator Application Data Micr	IUNB	Text Document
*log.txt		C. W/MDDW/S	1 1 1	Text Document
Containing text	E Faultion tet	C.WINDOWS	2 KB	Text Document
		C\W/NDDW/S	1 KB	Text Document
	NDISLOG TXT	C-WINDOWS	0 KB	Text Document
Look in:	E OEWABLog.txt	C:\WINDOWS	1 KB	Text Document
🖃 Local Hard Drives (C:)	BunOnceEx Log.txt	C:WINDOWS	24 KB	Text Document
	SchedLog.Txt	C:\WINDOWS	32 KB	Text Document
Search Now Stop Search	🗐 sfplog.txt	C:\WINDOWS\SYSTEM\sfp	6 KB	Text Document
	E OEWABLog.txt	C:\WINNT	2 KB	Text Document
Search Options >>	SETUPLOG.TXT	C:\WINNT	186 KB	Text Document
Search for other items:				
Files or Folders				
Computers				
People				
Internet			13	
	•			Þ
16 object(s)				1.

Figure 28-1: Search Results

- ____d. In the *Listing Display* window, click the Name column button, and then click the In Folder column button.
 - e. Record the information for the first four files in Table 28-1.
- *NOTE:* You may need to use the horizontal scroll bar at the bottom of the window to see all of the information for the first four *log.txt files.

3. Open and examine the BOOTLOG.TXT file

- _a. Double-click the *Bootlog.Txt* file icon to open the file in *Notepad*.
- b. Click the Maximize button to expand the *Notepad* window as shown in Figure 28-2.

State File Folia Search Help	4	×
[000DE51C] Loading Vxd = VMM		
[000DE51E] LoadSuccess = VMM		
[000DE51F] Loading Vxd = vnetsup.vxd		
[000DE520] LoadSuccess = vnetsup.vxd		
[000DE520] Loading Vxd = VPOWERD		
[000DE520] LoadSuccess = VPOWERD		
[000DE520] Loading Vxd = ndis.vxd		
[000DE522] LoadSuccess = ndis.vxd		
[000DE523] Loading Vxd = JAVASUP.VXD		
[000DE524] LoadSuccess = JAVASUP.VXD		
[000DE524] Loading Vxd = CONFIGMG		
[000DE524] LoadSuccess = CONFIGMG		
[[0000E524] Loading Vxd = NIKERN		
[[0000E525] LoadSuccess = NIKERN		
[[0000E525] Loading Vxd = VWIN32		
[[0000E525] LOAUSUCCESS = VWIN32		
[0000C525] LUGUINY VXU = VEBACKUP		
[0000E525] Loading Uvd = UCOMM		
[BBBDE525] LOGUING VAG - VEUNM		
[8880E525] Loading Hyd = COMPHEE		
[0000E525] Loading Uxd = IESMGR		
[BBBDE526] LoadSuccess = IESMGR		
[AAADE526] Loading Uxd = IOS		
[AAADE527] LoadSuccess = IOS		
[000DE5271 Loading Vxd = MTRR		
[000DE527] LoadSuccess = MTRR		
[000DE527] Loading Vxd = SPOOLER		
[000DE527] LoadSuccess = SPOOLER		
[000DE527] Loading Vxd = UDF		
[000DE527] LoadSuccess = UDF		
[000DE527] Loading Vxd = VFAT		
[000DE528] LoadSuccess = VFAT		
[000DE528] Loading Vxd = VCACHE		
[000DE528] LoadSuccess = VCACHE		
[000DE528] Loading Vxd = VCOND		
[000DE528] LoadSuccess = VCOND		
[000DE528] Loading Vxd = VCDFSD		
[000DE528] LoadSuccess = VCDFSD		
[000DE528] Loading Vxd = VXDLDR		
[000DE528] LoadSuccess = VXDLDR		Figure 28-
[000DE528] Loading Vxd = VDEF		riguite 20-
[UUUUDE528] LoadSuccess = VDEF		BOOTI O
[[UUUUDE528] Loading Vxd = VPICD		BUUILU
[BBBBDE528] LoadSuccess = UPICD		*

In the first group, the system loads the VxD drivers. These drivers are shown to be successfully loaded by a line beginning "Loading Vxd=", followed by a line reading "LoadSuccess=".

_____C. Record the names of the first and last VxD drivers to be loaded, and record whether or not they loaded successfully in Table 28-2.

The next group can be checked to verify if the system-critical VxD drivers have been initialized. These drivers are shown to be successfully initialized by a line beginning "SYSCRITINIT=", followed by a line reading "SYSCRITINITSUCCESS=".

____d. Record the names of the first and last VxD drivers to be initialized, and record whether or not it was done successfully in Table 28-3.

The next group shows the initialization of the VxD device drivers. These devices are shown to be successfully initialized by a line beginning "DEVICEINIT=", followed by a line reading "DEVICEINITSUCCESS=".

_____e. Record the names of the first and second devices to be initialized, and record whether or not it was done successfully in Table 28-4.

The next group, which may be found inside the device initialization group, shows the dynamic loading and initialization of the system device drivers. These devices are shown to be successfully initialized by a line beginning "Dynamic load device" followed by a line reading "Dynamic init device", then "Dynamic init success", and finally "Dynamic load success".

_f. Record the names of the first and second devices to be dynamically loaded and initialized, and record whether or not it was done successfully in Table 28-5.

The next group confirms the initialization of the system VxDs. These devices are shown to be successfully initialized by a line beginning "INITCOMPLETE=", followed by a line reading

"INITCOMPLETESUCCESS=".

g. Record the names of the first and last VxD initializations to be confirmed, and record whether or not it was done successfully in Table 28-6.

The final section begins with the line "Initializing KERNEL". This describes the loading of the various parts of the operating system kernel and its support drivers. These steps are shown to be successful by a line beginning "LoadStart=", followed by a line reading "LoadSuccess=".

h. Record the names of the first and last kernel parts to be loaded, and record whether or not it was done successfully in Table 28-7.

DETLOG.TXT

The DETLOG.TXT file is stored in the system's root directory (C:\) and is used in the recovery after an operating system crash. DETLOG.TXT can be edited or created in two different ways. First, it is created after a normal hardware setup. Second, it can be created or edited after a failed hardware setup. When a system crashes during the hardware detection portion of the startup procedure, a temporary DETCRASH.LOG (Detect Crash) log file is created. The file contains information about the detection module that was running when the crash occurred. DETCRASH.LOG is a binary file and cannot be read directly. However, a text version of this file is created and named DETLOG.TXT, as depicted in Figure 28-3.

	-
<u>File Edit Search Help</u>	4
[System Detection: 12/12/00 - 16:21:27]	
Parameters "", InfParams "", Flags=01002003	
SDMVer=045a.3000, WinVer=0800045a, Build=04.5a.3000, WinFlags=00002c29	
SkipList=	
DetectList=	
LogCrash: crash log not found or invalid	
LogCrash: crash log invalid	
Estimated number of detection functions = 298	
VerifyHW: manual device PROCESSOR_UPDATE\0000: Processor support	
VerifyHW: manual device SwEnum\0000: Pluq and Play Software Device Enumerator	
Checking for: System Bus	
CheckInt86xCrash: int 1a,AX=b101,rc=0	
SetVar: PCIBUS=	
MatchInfList: This computer matches BIOSINFO.INF's [MachineIDBios]	
This computer matches one of the descriptions under MachineIDBios section in biosinfo.inf	
DetectACPIBIOS: ACPI BIOS on this computer is not compatible with Microsoft Windows	
DetFlags: 40	
Detected: *PNP0C00\0000 = [1] Plug and Play BIOS	
SetVar: PNPBIOS=	
Checking for: Sustem Board	
Detected: *PNP0C01\0000 = [2] Sustem board	
Checking for: Advanced Power Management Support	
Detected: *PNP0C05\0000 = [3] Advanced Power Management support	
Detected: *PNPAFAC\AAAA = [4] Standard Serial Mouse	
Number of verifu functions called = 4	
Devices verified: 4	
ConfigMG device: HTREF\RESERVED\A	
ConfidMG device: ROOT\PROCESSOR UPDATE\AAAA	
ConfigMG device: ROOTLSWENUMLAAAA	
ConfidMG device: ROOT*PNPACAA\AAAA	
ConfigMG device: skip ForceHWVerify device ROOT*PNPACAA\AAAA	
ConfigMG device: BIOS*PNP8461\88	
RenaunidRes: *PNP 0401\0000	
ID=378-37f(ffff:0:0).778-77f(ffff:0:0)	
IR0=7	
DMA=3	
ConfiaMG device: BIOS*PNP0501\02	
ReaAvaidRes: *PNP0501\0000	
10=3f8-3ff(ffff:8:8)	
IB0=4	
ConfigMG device: BLOS*PNP0501\03	
RendunidRes: #PNP 05 01 0001	
$I_0 = 2 \epsilon \epsilon$	
ConfidMC device: BIOS*PNP0700\04	
RendunidRes + *PNP 07 001 0000	
regreatinest - in a patona	

Figure 28-3: DETLOG.TXT File

1. Open and examine the DETLOG.TXT file

- a. In the menu bar, click the File menu and then select Open.
- b. In the <u>Open</u> window, scroll to the right and then double-click the DETLOG.TXT.

NOTE: If the file is not visible type DETLOG.TXT in the File name box and be sure that you are looking at Local Disk (C:\), and click the Open button.

- _c. If DETLOG.TXT is too large for Notepad to open, you will be asked to use WordPad to read it.
- d. Record the information of the first line in Table 28-8.
- e. In Table 28-9, record the first item to be checked, which begins with "Checking for".

f. Record the number of functions called, and the number of devices detected/verified in Table 28-10.

NETLOG.TXT

The NETLOG.TXT file is stored in the system's root directory (C:\) and is used in the troubleshooting of network problems. This file, as shown in Figure 28-4, is created at the installation of a Network Interface Card (NIC) and its accompanying software setup.

Service State Stat	4	_ 8 ×	
Eile Edit Search Help	3		
C:\WININST0.400\netdi.dll Version : 4.90.0.3000			
Created : Thu Jun 08 17:00:00 2000			
RETAIL Build			
NETDI: ClassInstall (0x6 on 0x585e:0x318) on Realtek RTL8029(AS)-based PCI Ethernet	Adapter at		
Enum\PCI\VEN_10EC&DEV_8029&SUBSYS_0000000&REV_00\BUS_00&DEV_0A&FUNC_00			
NETDI: SetupFlags=513(SUF_INSETUP)(SUF_FIRSTTIME) BootCount=3 NetSetupFlags=1 (RETAI	L)		
NETDI: Examining class Net			
NEIDI: Found Enum/PCI/OEM_10EC8DE0_8029820B5Y5_00000008KE0_00/B05_008DE0_008EF0NC_00	in registry		
NETDI: NdiCreate[Realtek RIL8029(AS)-based PCI Ethernet Adapter] = OK			
NEIDI: Found Enum/Root/Net/0000 in registry			
NEIDI: NdiCreate[Dial-Up Adapter] = UK			
NEIDI: Examining class Netlrans			
NEIDI: Found Enum/Network/MSICP/00000 in registry			
NEIDI: Geninstallpriver, C:\WININST0.400\NEIIRNNS.INF,MSICP.ndi			
NEIDI: GeninstallDriver, C:\WININS10.400\NEIIKHNS.INF,MSICP.ndi			
NEIDI: NOICreate[ICP/IP] = UK			
NETDI: Found Enum(Network(MSICF)0001 in registry			
NEIDI: Geninstallpriver, C:\WININST0.400\NEIIRHNS.INF,MSICP.ndi			
NEIDI: GeninstallDriver, C:\WININST0.400\NEIIKHNS.INF,MSICP.ndi			
NEIDI: NGICPERE[ICP/IP] = UK			
NETDI: Examining class Netglient			
NEIDI: FOUND ENUMYNEUWORK(VKEDIK(V0001 IN registry			
NETDI: Geninstalipriver, C: Wininsta basenetci, inf, OkeDik. Hui			
NEIDI: Geninstatiorioer, C: Winnesto 8.400 Neibil: Inr, Okedik. Hui			
MEIDI: MUIGreate[GITENT FOR MICROSOFT MELWORKS] - OK			
METDI. UIT_FITSTINGSEUU			
NETDI. Setting firstboutupgrade-i			
NEIDI: GilangeLine: Nu Natches fuunu. Neidi: Gila Information Car C: MINDONS/SUSTEM/wcock22 dii			
MEIDI: FILE INFORMATION FOR C: WINDOWS \STSTEM\WSUCK32.011			
METDI. FILE LENGLE-30004, UNC-20040074			
METDI. Budynight-bupyright (b) Mitrosoft burp. 1995-1996			
METDI. Fround-Horosoft(K) windows(K) Millennium operating System			
NEIDI. Versium-deevelessa.eeeebba			
NETDI. FILE INFORMATION FOL S.WINDOWSVINSOBR.DLL			
NETDI - Converget-Converget (C) Microsoft Corp. 1002-1007			
NETDI - Broduct=Microsoft(P) Mindows(P) Millionium Onersting Suctom			
NETDI - Hording - and Anga and Anga and Anga - ang			
TITLE IN A DECEMBER OF A DECEMBE			
NFIDI: File not found			
NETDI: BackunWSnck: WSnckBackedUn alreadu exists, exiting			
NFIDI: DetectWSnck=0			
NETDI: Microsoft WSOCK32 DII found			Figure 28-4
NETDI: SafeForWS2=TRUE, Microsoft WINSOCK.DLL found			11gui v 20-4.
NETDI: WSnckSearchDir: C:\WINDOWS\SYSTEM\WSncK32.Dll matches.			NETLOC TVT F
		-	INDILUG.IAI F

1. Open and examine the NETLOG.TXT file

- _a. Open the *NETLOG.TXT* file from drive C: in *Notepad* in the same manner as in Step 1a above.
- b. Click the Maximize button to expand the *Notepad* window.
- ____C. In Table 28-11 record the first three devices listed, which are identified by "NdiCreate" at the beginning of the lines.

NOTE: The device is enclosed inside a set of square brackets, [],or a set of parentheses, ().

_d. Close the *NETLOG.TXT* file <u>Notepad</u> window.

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SETUPLOG.TXT

The SETUPLOG.TXT file holds setup information that was established during the installation process. The file is stored in the system's root directory (C:\) and is used in safe recovery situations. Entries are added to the file as they occur in the setup process, as shown in Figure 28-5. Therefore, the file can be read to determine what action was being taken when a setup failure occurred.

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[OptionalComponents]	
"Accessories"=1	
"Screen Savers"=0	
"Paint"=1	
"Calculator"=1	
"Flying Windows"=0	
"Desktop Wallpaper"=1	
"OpenGL Screen Savers"=1	
"Additional Screen Savers"=0	
"Communications"=1	
"System Tools"=1	
"Disk compression tools"=1	
"Accessibility"=1	
"Accessibility Options"=1	
"Accessibility Tools"=1	
"Games"=1	
"Classic Games"=1	
"Internet Games"=1	
"Plus! Games"=1	
"Internet Connection Sharing"=0	
"MSN Messenger Service"=0	
"Audio Compression"=1	
"Video Compression"=1	-
"Sound Recorder"=1	1
"Volume Control"=1	
"Media Player"=1	
"Multilanguage Support"=0	
"Baltic"=0	
"Central European"=0	
"Cyrillic"=0	
"Greek"=D	
"Turkish"=0	
"Briefcase"=0	
"Document Templates"=1	
"Dial-Up Networking"=1	
"Dial-Up Server"=1	
"Direct Cable Connection"=1	
"Virtual Private Networking"=0	
"Macromedia Shockwave Flash"=1	

1. Open and examine the SETUPLOG.TXT file

- a. Open the *SETUPLOG.TXT* from drive C: in the same manner as in Step 1a above.
- _b. Click the Maximize button to expand the *Notepad* window.
- _____C. Record the name of the first section in Table 28-12.
- d. Record the name of the last section in Table 28-13.
- ____e. Close the SETUPLOG.TXT file <u>Notepad</u> window.

2. Exit the Notepad program and turn off the computer

TABLES

Figure 28-5:

SETUPLOG.TXT File

Table 28-1

-	
Search Results of *log.txt Search:	

PROCEDURE - 28

Table 28-2			
First Group Drivers Load Status:			
Which One	Driver	Status	

Table 28-3

System Critical Drivers Load Status:			
Which One	Critical Driver	Status	

Table 28-4

Device Drivers Load Status:			
Which One	Device Driver	Status	

Table 28-5

Dynamically Loaded & Device Initialization Load Status:		
Which One	Device	Status

Table	28-6

Initialization of System VxD Device Load Status:			
Which One	Device	Status	

Table 2	28-7
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Initialization of Kernel Driver and Load Status:		
Which One	Kernel Driver	Status

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Table 28-8

1st Line of DETLOG.TXT File

Table 28-9

"Checking For:"

Table 28-10

Functions Called:	
Devices Detected/Verified:	

Table 28-11

NdiCreate Items:	

Table 28-12

Name of First Section [SETUPLOG.TXT]:

Table 28-13

Name of Last Section [SETUPLOG.TXT]:



Feedback

LAB QUESTIONS

- **1.** How do you tell if a VxD device driver initializes correctly?
- **2.** What file monitors the use of the file VMM.VXD?
 - **3.** Was a screen saver loaded at installation? (0=no, 1=yes)
 - **4.** What is the NETLOG.TXT file used for?