A USER-EXPERIENCE COMPARISON OF DELL LATITUDE AND HP PAVILION NOTEBOOK SYSTEMS





Workers can be only as productive as their tools allow them to be. On a sluggish system, carrying out routine tasks such as opening and copying files, starting up and shutting down the system, and even entering and leaving hibernation and sleep modes becomes annoying for employees and causes their productivity to suffer. Systems that respond faster improve the user experience and increase office efficiency.

Principled Technologies conducted a series of custom hand-timed tests to measure system responsiveness on tasks that enterprise employees perform throughout the day. We tested two Dell notebooks powered by 2nd generation Intel Core processors, a mid-range Dell Latitude E6420 and a high-end Dell Latitude E6520, and two HP notebooks powered by AMD processors, a mid-range HP Pavilion dm1z and a high-end HP Pavilion dv6z Select Edition.

The Intel Core processor-based Dell systems consistently performed tasks more quickly—as much as 67.4 percent faster—than the corresponding HP Pavilion systems, making Dell a great choice for an efficient workplace.

SPEEDING UP THE WORKDAY WITH DELL AND INTEL

Today's business world is moving faster than ever, and every second counts. Extra seconds and minutes spent doing everyday office tasks add up quickly over time and over a large number of employees. That's why, when choosing notebook systems for the workplace, it makes sense to purchase systems with enough processing power to complete routine tasks quickly and efficiently.

In our tests, we found that the Intel Core processor-based Dell Latitude E6420 and Dell Latitude E6520 sped up everyday tasks considerably over comparable AMD processor-based HP systems – enough to decrease time doing these tasks by up to 29.2 percent. (To learn more about the systems we tested, see <u>Appendix A</u>.)

Figure 1 shows the time that each system took to open three Microsoft® Office® files—one Word, one Excel®, and one PowerPoint®. We timed each system opening each of the files three ways—from a local hard drive, from a network share using an Ethernet connection, and from the same network share using a wireless connection. Each bar represents the number of seconds the system needed to perform all nine file-opening tasks. (See the System Responsiveness Results section for complete results.)

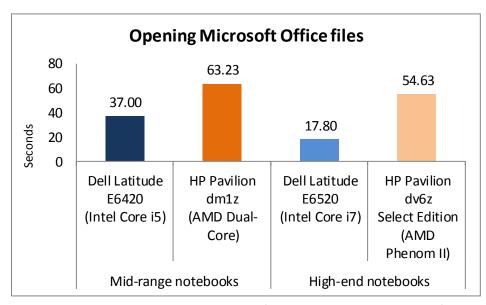


Figure 1: Combined times, in seconds, the four test systems took to perform nine file-opening tasks. Lower numbers are better.

The Intel Core i5-based

Dell Latitude E6420 notebook
took 41.5 percent less time than
the AMD Dual-Core-based HP
Pavilion dm1z, a savings of 26.23
seconds. The Intel Core i7-based
Dell Latitude E6520 notebook
took 67.4 percent less time than
the AMD Phenom II-based HP
Pavilion dv6z, a savings of 36.83
seconds.

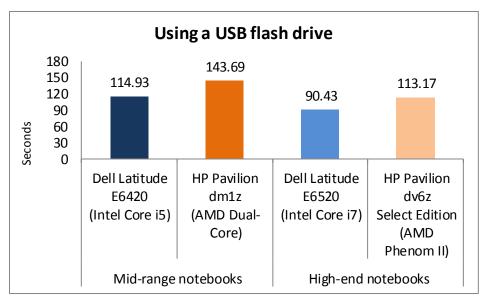


Figure 2: Combined times, in seconds, the four test systems took to perform six tasks involving USB flash drives. Lower numbers are better.

Figure 2 shows the time that each system took to perform three tasks involving USB flash drives—installing the flash drive, reinserting the flash drive, and copying files to the flash drive. We timed each system performing these tasks with two brands of USB flash drive—Kingston® and PNY®. Each bar represents the number of seconds the system needed to

perform all six tasks. The Intel Core i5-based Dell Latitude E6420 notebook took 20.0 percent less time than the AMD Dual-Core-based HP Pavilion dm1z, a savings of 28.76 seconds. The Intel Core i7-based Dell Latitude E6520 notebook took 20.1 percent less time than the AMD Phenom II-based HP Pavilion dv6z, a savings of 22.74 seconds.

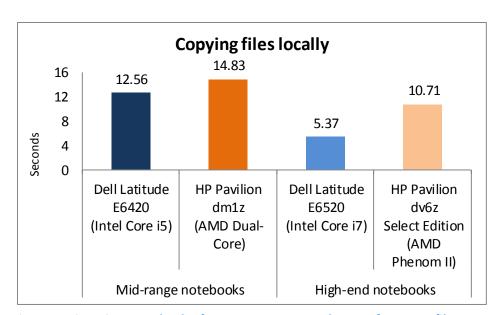


Figure 3: Time, in seconds, the four test systems took to perform one file-copying task. Lower numbers are better.

notebook systems

Figure 3 shows the time each test system took to copy files from one location to another on the local hard drive. The Intel Core i5-based Dell Latitude E6420 notebook took 15.3 percent less time than the AMD Dual-Core-based HP Pavilion dm1z, a savings of 2.27 seconds. The Intel Core i7-based Dell Latitude E6520 notebook took 49.9 percent less time than

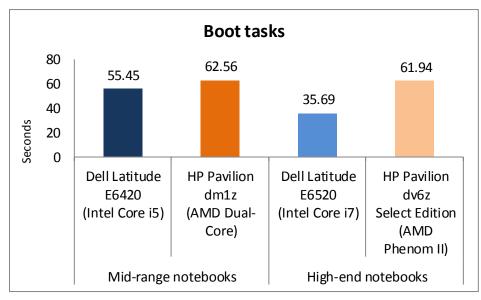


Figure 4: Combined times, in seconds, the four test systems took for three events to occur as the system booted. Lower numbers are better.

the AMD Phenom II-based HP Pavilion dv6z, a savings of 5.34 seconds.

Figure 4 shows the time that each system took for three events to occur as the system boots—the taskbar appearing, indicating the operating system has completely loaded; followed by opening a Word 2010 document, indicating the system is useable; and finally, making a

connection to an Exchange Server with Outlook® 2010, indicating the network is functioning. Each bar represents the number of seconds the system needed to perform all three tasks in quick succession. The Intel Core i5-based Dell Latitude E6420 notebook took 11.4 percent less time than the AMD Dual-Core-based HP Pavilion dm1z, a savings of 7.11 seconds. The Intel Core i7-based Dell Latitude E6520 notebook took 42.4 percent less time than the AMD Phenom II-based HP Pavilion dv6z, a savings of 26.25 seconds

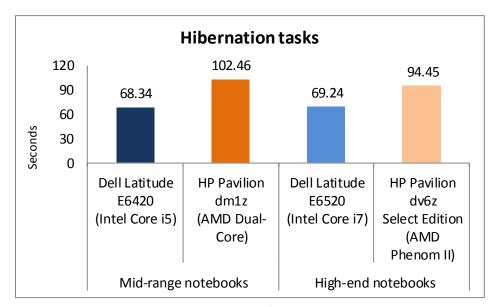


Figure 5: Combined times, in minutes, the four test systems took to complete four tasks related to hibernation. Lower numbers are better.

Figure 5 shows the time each system took to complete four tasks related to hibernation. Each bar represents the number of seconds the system needed to perform all four tasks. The Intel Core i5-based Dell Latitude E6420 notebook took 33.3 percent less time than the AMD Dual-Corebased HP Pavilion dm1z, a savings of 34.12 seconds.

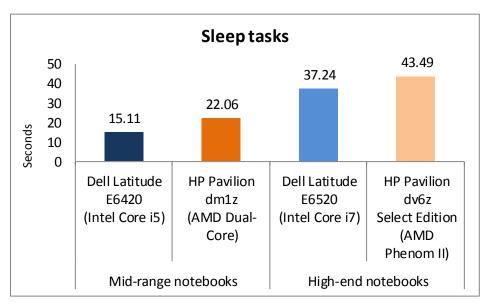


Figure 6: Combined times, in seconds, the four test systems took to complete four tasks related to sleep mode. Lower numbers are better.

The Intel Core i7-based

Dell Latitude E6520 notebook
took 26.7 percent less time than
the AMD Phenom II-based HP
Pavilion dv6z, a savings of 25.21
seconds.

Figure 6 shows the time each system took to complete four tasks related to sleep mode. Each bar represents the number of seconds the system needed to perform all four tasks. The Intel

Core i5-based Dell Latitude E6420 notebook took 31.5 percent less time than the AMD Dual-Core-based HP Pavilion dm1z, a savings of 6.95 seconds. The Intel Core i7-based Dell Latitude E6520 notebook took 14.4 percent less time than the AMD Phenom II-based HP Pavilion dv6z, a savings of 6.25 seconds.

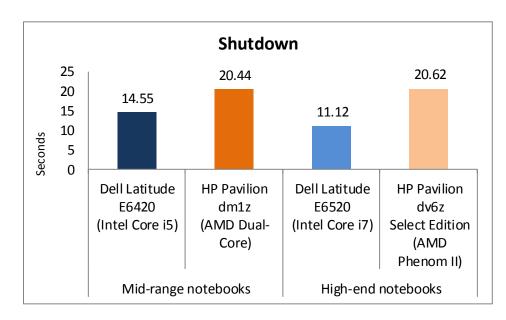


Figure 7: Time, in seconds, the four test systems took to shut down. Lower numbers are better.

Figure 7 shows the time each system took to shut down. The Intel Core i5-based Dell Latitude E6420 notebook took 28.8 percent less time than the AMD Dual-Core-based HP Pavilion dm1z, a savings of 5.89 seconds. The Intel Core i7-based Dell Latitude E6520 notebook took 46.1 percent less time than the AMD Phenom II-based HP Pavilion dv6z, a savings of 9.50 seconds.

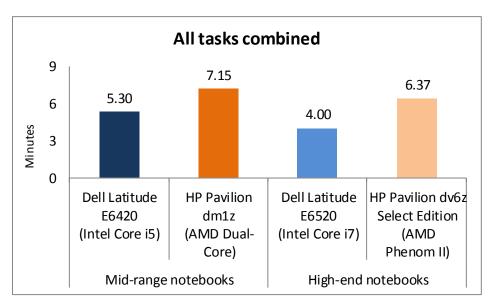


Figure 8: Time, in minutes, the four test systems took to complete all 17 tasks. Lower numbers are better.

Figure 8 shows the time in minutes each system took to complete all 17 tasks we tested.

The Intel Core i5-based Dell
Latitude E6420 notebook took
25.9 percent less time than the
AMD Dual-Core-based HP Pavilion dm1z, a savings of 1.86 minutes.

If each worker performed this set of tasks daily, the annual savings for the company would work out to **154.63 hours for 100**

employees and **1,546.25** hours for **1,000** employees. The Intel Core i7-based Dell Latitude E6520 notebook took 37.2 percent less time than the AMD Phenom II-based HP Pavilion dv6z, a savings of 2.37 minutes. If each worker performed this set of tasks daily, the annual savings for the company would work out to **197.85** hours for 100 employees and **1,978.47** hours for **1,000** employees.

SYSTEM RESPONSIVENESS RESULTS

Figures 9 and 10 show a detailed breakdown of system responsiveness results, in seconds, for the four test systems. These results represent the median of three test runs. <u>Appendix C</u> presents the results from all three runs.

Mid-range systems	Dell Latitude E6420	HP Pavilion dm1z	Time saved with Dell Latitude E6420
Wild-range systems	(Intel Core i5)	(AMD Dual-Core)	(Intel Core i5)
Opening Microsoft Office files	(modi dara ia)	(mile e am coro)	(
Opening local Word document	4.96	12.61	7.65
Opening local Excel spreadsheet	2.37	4.01	1.64
Opening local PowerPoint deck	1.95	3.79	1.84
Opening Word document - network connection	9.09	12.57	3.48
Opening Excel spreadsheet - network connection	4.34	5.90	1.56
Opening PowerPoint deck - network connection	2.68	2.86	0.18
Opening Word document - wireless connection	5.15	12.13	6.98
Opening Excel spreadsheet - wireless connection	3.99	5.65	1.66
Opening PowerPoint deck - wireless connection	2.47	3.71	1.24
USB flash drive tasks			
Installing PNY USB flash drive	8.45	17.45	9.00
Installing Kingston USB flash drive	3.08	3.09	0.01
Re-inserting PNY USB flash drive	2.66	14.60	11.94
Re-inserting Kingston USB flash drive	1.70	1.82	0.12
Copying files to a USB flash drive	78.81	79.71	0.90
Copying files from a USB flash drive	20.23	27.02	6.79
Copying files locally			
Copying files locally	12.56	14.83	2.27
Boot tasks			
Taskbar appears	29.28	41.74	12.46
Word document appears	15.44	8.76	(6.68)
Time to connect to Exchange Server after booting system	10.73	12.06	1.33
Hibernation tasks			
Cold hibernate experience			
Time to hibernate	14.62	25.78	11.16
Time to resume from hibernate	20.40	26.45	6.05
Warm hibernate experience			
Time to hibernate	12.81	24.06	11.25
Time to resume from hibernate	20.51	26.17	5.66
Sleep tasks			
Cold sleep experience			
Time to sleep	4.40	8.54	4.14

Mid-range systems	Dell Latitude E6420 (Intel Core i5)	HP Pavilion dm1z (AMD Dual-Core)	Time saved with Dell Latitude E6420 (Intel Core i5)
Time to resume from sleep	3.26	4.44	1.18
Warm sleep experience			
Time to sleep	4.04	4.53	0.49
Time to resume from sleep	3.41	4.55	1.14
Shutdown			
Time to turn system off	14.55	20.44	5.89
Total seconds	317.94	429.27	111.33
Total minutes	5.30	7.15	1.86

Figure 9: Application and system responsiveness, in seconds, for the mid-range systems. Lower numbers are better.

High-end systems	Dell Latitude E6520 (Intel Core i7)	HP Pavilion dv6z Select Edition (AMD Phenom II)	Time saved with Dell Latitude E6520 (Intel Core i7)
Opening Microsoft Office files			
Opening local Word document	2.69	9.40	6.71
Opening local Excel spreadsheet	1.28	3.75	2.47
Opening local PowerPoint deck	0.95	2.51	1.56
Opening Word document - network connection	3.14	10.47	7.33
Opening Excel spreadsheet - network connection	1.44	5.45	4.01
Opening PowerPoint deck - network connection	1.24	3.40	2.16
Opening Word document - wireless connection	2.89	10.99	8.10
Opening Excel spreadsheet - wireless connection	2.59	5.43	2.84
Opening PowerPoint deck - wireless connection	1.58	3.23	1.65
USB flash drive tasks			
Installing PNY USB flash drive	3.63	8.29	4.66
Installing Kingston USB flash drive	3.06	8.59	5.53
Re-inserting PNY USB flash drive	2.68	2.46	(0.22)
Re-inserting Kingston USB flash drive	1.64	1.56	(0.08)
Copying files to a USB flash drive	60.19	70.02	9.83
Copying files from a USB flash drive	19.23	22.25	3.02
Copying files locally			
Copying files locally	5.37	10.71	5.34
Boot tasks			
Taskbar appears	25.59	37.46	11.87
Word document appears	7.66	15.88	8.22
Time to connect to Exchange Server after booting system	2.44	8.60	6.16

Mid-range systems	Dell Latitude E6420 (Intel Core i5)	HP Pavilion dm1z (AMD Dual-Core)	Time saved with Dell Latitude E6420 (Intel Core i5)				
Hibernation tasks							
Cold hibernate experience							
Time to hibernate	11.62	25.70	14.08				
Time to resume from hibernate	22.71	23.37	0.66				
Warm hibernate experience							
Time to hibernate	11.42	21.01	9.59				
Time to resume from hibernate	23.49	24.37	0.88				
Sleep tasks							
Cold sleep experience							
Time to sleep	2.68	8.06	5.38				
Time to resume from sleep	2.78	6.07	3.29				
Warm sleep experience							
Time to sleep	2.52	6.79	4.27				
Time to resume from sleep	2.35	5.99	3.64				
Shutdown	Shutdown						
Time to turn system off	11.12	20.62	9.50				
Total seconds	239.98	382.43	139.18				
Total minutes	4.00	6.37	2.32				

Figure 10: Application and system responsiveness, in seconds, for the high-end systems. Lower numbers are better.

SUMMARY

A few seconds here, a few seconds there—over the course of the workday, it may not seem like much, but it adds up to a half a day of lost time per employee each year. As our tests prove, Dell notebooks powered by the Intel Core processor family help your employees save time by running common applications responsively, increasing productivity in your workplace.

APPENDIX A – DETAILED SYSTEM CONFIGURATION INFORMATION

Figure 11 presents each test system and the details of its configuration.

System	Dell Latitude E6420 (Intel Core i5)	Dell Latitude E6520 (Intel Core i7)	HP Pavilion dm1z (AMD Dual-Core)	HP Pavilion dv6 (AMD Phenom II)	
General					
Number of processor packages	1	1	1	1	
Number of cores per processor	2	4	2	4	
Number of hardware threads per core	4	8	1	4	
System power management policy	Dell	Dell	HP Recommended	HP Recommended	
Processor power- saving option	Enhanced Intel SpeedStep® Technology	Enhanced Intel SpeedStep Technology	AMD PowerNow!™ Technology (Cool'n'Quiet™ Technology)	AMD PowerNow! Technology (Cool'n'Quiet Technology)	
System dimensions (length x width x height)	13-7/8" x 9-4/8" x 1- 3/8"	15-1/8" x 10-1/4" x 1- 3/8"	11-4/8" x 8-3/8" x 1- 1/8"	15" x 9-7/8" x 1-3/8"	
System weight	5 lbs. 5 oz.	6 lbs. 5 oz.	3 lbs. 6 oz.	5 lbs. 8 oz.	
CPU					
Vendor	Intel	Intel	AMD	AMD	
Name	Core i5	Core i7	Dual-Core Processor	Phenom II	
Model number	2520M	2720QM	E-350	N970	
Stepping	D2	D2	В0	BL-C3	
Socket type and number of pins	Socket 988B rPGA	Socket 988B rPGA	Socket FT1 BGA	Socket S1 (638)	
Core frequency (GHz)	2.50	2.20	1.60	2.20	
L1 cache	32 KB + 32 KB (per core)	32 KB + 32 KB (per core)	32 KB + 32 KB (per core)	64 KB + 64 KB (per core)	
L2 cache	512 KB (256 KB per core)	1 MB (256 KB per core)	1 MB (512 KB per core)	2 MB (512 KB per core)	
L3 cache	3 MB	6 MB	N/A	N/A	
Platform	-	1		1 - 1	
Vendor	Dell	Dell	НР	НР	
Motherboard model number	OKODNP	OJ4TFW	1611	1640	
Motherboard chipset	Intel QM67	Intel QM67	AMD A40/A50 Series FCH	AMD 785GX	
BIOS name and version	Dell A01 (03/02/2011)	Dell A01 (03/02/2011)	HP F.05 (03/04/2011)	HP F.25 (02/15/2011)	

System	Dell Latitude E6420 (Intel Core i5)	Dell Latitude E6520 (Intel Core i7)	HP Pavilion dm1z (AMD Dual-Core)	HP Pavilion dv6 (AMD Phenom II)
Memory module(s)				
Vendor and model	Micron®	Samsung	Hyundai	Micron
number	8JSF25664HZ-1G4D1	M471B5273DHO-CH9	HMT325S6BFR8C-H9	16JSF51264HZ-1G4D1
Туре	PC3-10600S	PC3-10600S	PC3-10600	PC3-10600S
Speed (MHz)	1,333	1,333	1,333	1,333
Speed running in the system (MHz)	1,333	1,333	1,066	1,333
Timing/Latency (tCL-tRCD-tRP-tRASmin)	9-9-9-24	9-9-9-24	7-7-7-20	9-9-9-24
Size (MB)	4,096	8,192	4,096	8,192
Number of memory module(s)	2 x 2,048 MB	2 x 4,096 MB	2 x 2,048 MB	2 x 4,096 MB
Chip organization (single-sided/double-sided)	Double-sided	Double-sided	Double-sided	Double-sided
Channel (single/dual)	Dual	Dual	Dual	Dual
Hard disk				
Vendor and model number	Western Digital WD2500BEKT- 75PVMT0	Samsung SSD PM810	Seagate ST9250410AS	Samsung HM640JJ
Number of disks in system	1	1	1	1
Size (GB)	250	128	250	640
Buffer size (MB)	16	128	16	16
RPM	7,200	N/A	7,200	7,200
Туре	SATA 3.0 Gb/s	SATA II 3.0 Gb/s	SATA 3.0 Gb/s	SATA 3.0 Gb/s
Controller	Intel QM67	Intel QM67	AMD A40/A50 Series FCH	AMD SB800
Driver	Intel 10.1.0.1008 (11/06/2010)	Intel 10.1.0.1008 (11/06/2010)	Microsoft 6.1.7600.20713 (06/21/2006)	Microsoft 6.1.7600.20713 (06/21/2006)
Operating system				
Name	Windows 7 Ultimate	Windows 7 Professional	Windows 7 Professional	Windows 7 Professional
Build number	7600	7600	7600	7600
Service Pack	N/A	N/A	N/A	N/A
File system	NTFS	NTFS	NTFS	NTFS
Kernel	ACPI x64-based PC	ACPI x64-based PC	ACPI x64-based PC	ACPI x64-based PC
Language	English	English	English	English
Microsoft DirectX® version	DirectX 11	DirectX 11	DirectX 11	DirectX 11

System	Dell Latitude E6420 (Intel Core i5)	Dell Latitude E6520 (Intel Core i7)	HP Pavilion dm1z (AMD Dual-Core)	HP Pavilion dv6 (AMD Phenom II)	
Graphics 1					
Vendor and model number	Intel HD Graphics 3000	NVIDIA® NVS 4200M	AMD Radeon™ HD 6310M	ATI Mobility Radeon HD 6550	
Туре	Integrated	Discrete	Integrated	Discrete	
Chipset	Intel HD Graphics Family	NVS 4200M	ATI Radeon HD 6310M	ATI Mobility Radeon HD 6550	
BIOS version	2089.11	75.19.17.1.2	BR39197.bin	BR38060.010	
Total available graphics memory (MB)	1,696	4,095	1,972	4,083	
Dedicated video memory (MB)	64	512	384	1,024	
System video memory (MB)	0	0	0	0	
Shared system memory (MB)	1,632	3,583	1,588	3,059	
Resolution	1,366 x 768 x 32-bit	1,920 x 1,080 x 32-bit	1,366 x 768 x 32-bit	1,366 x 768 x 32-bit	
Driver	Intel 8.15.10.2266 (12/16/2010)	NVIDIA 8.17.12.6696 (02/02/2011)	ATI Technologies Inc. 8.792.0.0 (11/09/2010)	ATI Technologies Inc. 8.770.2.2000 (09/29/2010)	
Graphics 2		1			
Vendor and model number	N/A	N/A	N/A	AMD M880G with ATI Mobility Radeon HD 4250	
Туре	N/A	N/A	N/A	Integrated	
Chipset	N/A	N/A	N/A	ATI Mobility Radeon HD 4250	
BIOS version	N/A	N/A	N/A	VER010.094.001.045. 035812	
Total available graphics memory (MB)	N/A	N/A	N/A	3,131	
Dedicated video memory (MB)	N/A	N/A	N/A	320	
System video memory (MB)	N/A	N/A	N/A	0	
Shared system memory (MB)	N/A	N/A	N/A	2,811	
Resolution	N/A	N/A	N/A	1,366 x 768 x 32-bit	
Driver	N/A	N/A	N/A	ATI Technologies Inc. 8.770.2.2000 (09/29/2010)	

System	Dell Latitude E6420 (Intel Core i5)	Dell Latitude E6520 (Intel Core i7)	HP Pavilion dm1z (AMD Dual-Core)	HP Pavilion dv6 (AMD Phenom II)	
Sound					
card/subsystem					
Vendor and model	Intel Display Audio	NVIDA High Definition	ATI High Definition	ATI High Definition	
number	inter Display Addio	Audio	Audio Device	Audio Device	
Driver	Intel 6.14.0.3074 (10/15/2010)	NVIDIA 1.2.14.0 (12/13/2010)	ATI Technologies Inc. 7.11.0.7710 (08/30/2010)	ATI Technologies Inc. 7.11.0.7706 (05/06/2010)	
Ethernet					
Vendor and model number	Intel 82579LM Gigabit	Intel 82579LM Gigabit	Realtek PCIe GBE Family	Realtek PCIe GBE Family	
Driver	Intel 11.8.81.0 (10/28/2010)	Intel 11.8.81.0 (10/28/2010)	Realtek 7.27.920.2010 (09/20/2010)	Realtek 7.23.623.2010 (06/23/2010)	
Wireless					
Vendor and model number	Intel Centrino™ Ultimate-N 6300 AGN	Intel Centrino Ultimate-N 6300 AGN	Ralink RT5390	Broadcom [®] 43224AG	
Driver	Intel 14.0.1.2 (12/21/2010)	Intel 14.0.1.2 (12/21/2010)	Ralink Technology Corp. 3.1.13.0 (11/04/2010)	Broadcom 5.60.350.11 (05/07/2010)	
Optical drive(s)					
Vendor and model number	TSSTcorp TS-U333B	TSSTcorp TS-U633J	HP HSTNN-ID06	HP TS-L633R	
Туре	DVD ROM	DVD+/-RW	BD-ROM	CD/DVD-RW	
USB ports		·		· ·	
Number	3	3	3	3	
Туре	2.0	2.0	2.0	2.0	
Other	eSATA, Media Card Reader	eSATA, HDMI, Media Card Reader	HDMI, Media Card Reader	eSATA, HDMI, Media Card Reader	
Monitor				•	
LCD type	HD LED WXGA	HD LED WXGA	HD LED WXGA	HD LED WXGA	
Screen size	14"	15.6"	11.6"	15.6"	
Refresh rate	60 Hz	60 Hz	60 Hz	60 Hz	
Battery				•	
Туре	T54FJ Lithium-ion	T54FJ Lithium-ion	HSTNN-OB2D Lithium-ion	HSTNN-DBOX Lithium-ion	
Size (length x width x height)	8-1/8" x 2" x 3/4"	8-1/8" x 2" x 3/4"	8" x 2-3/8" x 1"	8" x 2" x 7/8"	
Rated capacity	5400mAh/ 11.1V (60Wh)	5400mAh/ 11.1V (60Wh)	5100 mAh / 10.8V (55Wh)	5100 mAh / 10.8V (55Wh)	
Weight	11 oz.	11 oz.	11 oz.	11 oz.	

Figure 11: Configuration information for the four test systems.

APPENDIX B - TEST METHODOLOGY

Note: We ran each test three times, and report the results of the median run.

Setting up the test workload

We used a specific test workload for four of five test cases (see <u>Appendix D</u>). Before running the test on a system image, we copied the workload to both the system itself and to a target system. While the workload is the same for four test cases, we gave the workload folder a unique name for each test case. We describe the initial setup of the test workload below. When applicable, we include steps for renaming the test workload in the setup for the specific test case.

Setting up the test workload on the test system

- 1. Reset the system to the base image.
- 2. Copy the Corpus workload folder to the Documents folder (Windows 7, Windows Vista) or the My Documents folder (Windows XP). Note: For simplicity, we will refer to this folder only as the Documents folder throughout this report.

Setting up the test workload on the target system

- 1. Copy the Corpus folder to the target system.
- 2. Rename the Corpus folder to openfiles2

Opening Microsoft Office files (local HDD)

This test requires a stopwatch. We used the following test documents:

- TwoCities.docx 496 KB (507,904 bytes)
- Supply Requisition Form2.xlsx 820 KB (839,680 bytes)
- Welcome!.pptx 352 KB (360,448 bytes)

Setting up the test

- 1. Rename the Corpus folder to openfiles1
- 2. Reboot the system.
- 3. Allow the system to idle for 3 minutes before running the test.

- 1. Open the openfiles 1 folder.
- 2. Click once on the TwoCities.docx file to highlight the file.
- 3. Simultaneously press Enter to open the test document and start the timer.
- 4. Stop the timer when the document appears.
- 5. Close Word.
- 6. Wait 30 seconds.
- 7. Click the Supply Requisition Form2.xlsx file once to highlight the file.
- 8. Simultaneously press Enter to open the test spreadsheet and start the timer.
- 9. Stop the timer when the workbook appears.
- 10. Close Excel.

- 11. Wait 30 seconds.
- 12. Click the Welcome!.pptx file once to highlight the file.
- 13. Simultaneously press Enter to open the test slide deck and start the timer.
- 14. Stop the timer when the first slide appears.
- 15. Close PowerPoint.
- 16. Repeat steps 2 through 15 two times, and report the median.
- 17. Close the openfiles1 folder.

Opening Microsoft Office files (over a network using a wired connection)

This test requires a target system on the network and a stopwatch. We used the following test

documents:

- TwoCities.docx 496 KB (507,904 bytes)
- Supply Requisition Form2.xlsx 820 KB (839,680 bytes)
- Welcome!.pptx 352 KB (360,448 bytes)

Note: We installed Windows 7 Ultimate (32-bit) on the target system.

Setting up the test

- 1. Disable the wireless network connection on the test system.
- 2. Verify that the wired network connection works properly.
 - a. Open the openfiles2 folder on the test system.
 - b. Close the folder.
- 3. Reboot the system.
- 4. Allow the system to idle for 3 minutes before running the test.

- 1. Browse to the target system on the network using the test system's wired network connection, and open the openfiles 2 folder.
- 2. Click the TwoCities.docx file once to highlight the file.
- 3. Simultaneously press Enter to open the test document and start the timer.
- 4. Stop the timer when the document appears.
- 5. Close Word.
- 6. Wait 30 seconds.
- 7. Click the Supply Requisition Form2.xlsx file once to highlight the file.
- 8. Simultaneously press Enter to open the test spreadsheet and start the timer.
- 9. Stop the timer when the workbook appears.
- 10. Close Excel.
- 11. Wait 30 seconds.
- 12. Click the Welcome!.pptx file once to highlight the file.
- 13. Simultaneously press Enter to open the test slide deck and start the timer.
- 14. Stop the timer when the first slide appears.
- 15. Close PowerPoint.
- 16. Repeat steps 2 through 15 two times, and report the median.
- 17. Close the openfiles 2 folder.

Installing/re-inserting a USB drive

This test requires a stopwatch, a 1GB PNY USB flash drive, and a 1GB Kingston Traveler USB flash drive.

Setting up the test

- 1. Copy the test.mp3 file from the Corpus folder to the PNY USB flash drive.
- 2. Copy the test.mp3 file from the Corpus folder to the Kingston USB flash drive.
- 3. Copy the 32-bit decay.exe device driver removal tool to the hard drive (e.g., C:\decay.exe).
- 4. Run the decay.exe tool.
 - a. Open an administrative command prompt.
 - i. In Windows 7 and Windows Vista, click the Start button, type cmd in Start Search, and press Ctrl+Shift+Enter.
 - ii. In Windows XP, click the Start button, click Run, type and press Enter.
 - b. Type cd C:\ and press Enter.
 - c. Type decay.exe -1 and press Enter to view drivers installed by the two USB flash drives.
 - d. Type decay. exe and press Enter to run the tool and remove these device drivers.
 - e. Type decay.exe -1 and press Enter to confirm that the tool removed the USB device drivers.
- 5. Reboot the system.
- 6. Allow the system to idle for 3 minutes before running the test.

- 1. Simultaneously insert the PNY USB flash drive into USB port #1 and start the timer.
- 2. Stop the timer when the AutoPlay menu for the USB flash drive appears on the desktop.
- 3. After the USB device driver software installs successfully, remove the USB flash drive using the Safely Remove Hardware tool.
- 4. Wait 30 seconds.
- 5. Simultaneously insert the PNY USB flash drive into USB port #2 and start the timer.
- 6. Stop the timer when the AutoPlay menu for the USB flash drive appears on the desktop.
- 7. Remove the USB flash drive using the Safely Remove Hardware tool.
- 8. Wait 30 seconds.
- 9. Simultaneously insert the Kingston USB flash drive into USB port #1 and start the timer.
- 10. Stop the timer when the AutoPlay menu for the USB flash drive appears on the desktop.
- 11. After the USB device driver software installs successfully, remove the USB flash drive using the Safely Remove Hardware tool.
- 12. Wait 30 seconds.
- 13. Simultaneously insert the Kingston USB flash drive into USB port #2 and start the timer.
- 14. Stop the timer when the AutoPlay menu for the USB flash drive appears on the desktop.
- 15. Remove the USB flash drive using the Safely Remove Hardware tool.
- 16. Run the decay.exe tool.
 - a. Open an administrative command prompt.
 - i. In Windows 7 and Windows Vista, click the Start button, type cmd in Start Search, and press Ctrl+Shift+Enter.
 - ii. In Windows XP, click the Start button, click Run, type cmd and press Enter.
 - b. Type cd C:\ and press Enter.
 - c. Type decay.exe -1 and press Enter to view drivers installed by the two USB flash drives.

- d. Type decay.exe and press Enter to run the tool and remove these device drivers.
- e. Type decay.exe -1 and press Enter to confirm that the tool removed the USB device drivers.
- 17. Repeat steps 1 through 16 two times, and report the median.

Copying files

This test requires a stopwatch, a 1GB Kingston Traveler USB flash drive, and the following workload:

Corpus: 426 MB (446,697,472 bytes)

Setting up the test

- 1. Rename the openfiles1 folder to copyfileslocal1
- 2. Right-click the copyfileslocal1 folder, and select Copy.
- 3. Right-click the Document folder, and select Paste.
- 4. Rename the new folder to copyfilesusb1
- 5. Create two new output folders in the in Documents folder (e.g., testoutal and testoutbl).
- 6. Insert the USB flash drive, and create one output folder on the USB drive (e.g., E:\testusbout1).
- 7. Remove the USB flash drive using the Safely Remove Hardware tool.
- 8. Reboot the system.
- 9. Allow the system to idle for 3 minutes before running the test.

- 1. Open the copyfileslocal workload folder in the Documents folder.
- 2. Press Ctrl+A to select all files, right-click the files, and select Copy.
- 3. Open the testouta1 folder.
- 4. Right-click the testouta1 folder.
- 5. Simultaneously select Paste and start the timer.
- 6. Stop the timer when the copy operation is complete, as indicated by the disappearance of the copy status bar.
- 7. Delete the testouta1 folder from the Documents folder and empty the Recycle Bin.
- 8. Insert the USB flash drive into a USB port.
- 9. Open the copyfilesusb1 workload folder in the Documents folder.
- 10. Press Ctrl+A to select all files, right-click the files, and select Copy.
- 11. Open the testusbout1 folder on the USB flash drive.
- 12. Right-click the testusbout1 folder.
- 13. Simultaneously select Paste and start the timer.
- 14. Stop the timer when the copy operation is complete, as indicated by the disappearance of the copy status bar.
- 15. Rename the testusbout1 folder to testusbin1 and remove the USB flash drive using the Safely Remove Hardware tool.
- 16. Re-insert the USB flash drive into the same USB port.
- 17. Open the testusbin1 folder.
- 18. Press Ctrl+A to select all files, right-click the files, and select Copy.
- 19. Open the testoutb1 folder in the Documents folder.
- 20. Right-click the testoutb1 folder.
- 21. Simultaneously select Paste and start the timer.

- 22. Stop the timer when the copy operation is complete, as indicated by the disappearance of the copy status bar.
- 23. Repeat steps 1 through 22 two more times, using the following steps to set up the test for each subsequent run.
 - a. Delete the testusbin1 folder from the USB flash drive.
 - b. Create a new output folder with a different unique name on the USB drive (e.g., E:\testusbout2).
 - c. Remove the USB flash drive using the Safely Remove Hardware tool.
 - d. Delete the testoutb1 folder from the Documents folder and empty the Recycle Bin.
 - e. Create two new output folders with unique names in the Documents folder (e.g., testouta2 and testoutb2).
 - f. Rename both the copyfileslocal1 and copyfilesusb2 workloads to unique names (e.g., copyfileslocal2 and copyfilesusb2).

Boot experience tests

Cold boot experience

This test requires a stopwatch with multiple timers.

Setting up the test

1. Reset the system to the base test image.

Running the test

- 1. Boot the system.
- 2. Shut down the system, and wait 3 minutes.
- 3. Simultaneously start the timer and boot the system.
- 4. Stop timer 1 when the taskbar appears.
- 5. Immediately after the taskbar appears, click once on the test Word document on the desktop and then press Enter to open the document.
- 6. Stop timer 2 when the word count for the document appears in the bottom left of the task pane.
- 7. Wait 3 minutes before shutting the system down.
- 8. Repeat steps 3 through 8 two more times.

Trained boot experience

This test requires a stopwatch with multiple timers. This test requires no setup.

- 1. Simultaneously start the timer and boot the system.
- 2. Stop timer 1 when the taskbar appears.
- 3. Immediately after the taskbar appears, click once on the test Word document on the desktop and then press Enter to open the document.
- 4. Stop timer 2 when the word count for the document appears in the bottom left of the task pane.
- 5. Wait 3 minutes before shutting the system down.
- 6. Repeat steps 1 through 6 two more times.

Boot experience with Outlook 2007

This test requires a stopwatch. This test requires no setup.

Running the test

- 1. Boot the system.
- 2. Launch Outlook.
- 3. Shut down the system, and wait 3 minutes.
- 4. Boot the system.
- 5. Simultaneously launch Outlook and start the timer.
- 6. Stop the timer when the system is online with Microsoft Exchange, as indicated by the status bar in Outlook 2007.
- 7. Wait 3 minutes before shutting the system down.
- 8. Repeat steps 4 through 7 two more times, but do not shut down the system after the third timed run.

Shutdown experience tests

Shutdown experience

This test requires a stopwatch. This test requires no setup.

Running the test

- 1. Boot the system.
- 2. Wait 2 minutes.
- 3. Shut down the system: Start→Turn Off Computer→Shut Down (Windows XP), Start→Shut Down (Windows Vista, Windows 7).
- 4. Simultaneously start the timer and select Shut Down.
- 5. Stop the timer when the hard drive LED turns off.
- 6. Repeat steps 1 through 5 two more times.

Hibernate experience tests

Cold hibernate experience

This test requires a stopwatch. This test requires no setup.

- 1. Boot the system.
- 2. Put the system into hibernate mode: Start → Hibernate.
- 3. Select Hibernate.
- 4. Press the power button to resume from hibernate mode.
- 5. Shut down the system.
- 6. Boot the system.
- 7. Wait 5 minutes.
- 8. Put the system in hibernate mode: Start → Hibernate.
- 9. Simultaneously start the timer and select Hibernate.
- 10. Stop the timer when the hard drive LED turns off.
- 11. Reset the timer.

- 12. Simultaneously start the timer and press the power button to resume from hibernate mode.
- 13. Stop the timer when the system displays the desktop.
- 14. Shut down the system.
- 15. Repeat steps 6 through 14 two more times, but do not shut down the system after the third timed run.

Warm hibernate experience

This test requires a stopwatch. This test requires no setup.

Running the test

- 1. Wait 1 minute.
- 2. Put the system in hibernate mode: Start → Hibernate.
- 3. Simultaneously start the timer and select Hibernate.
- 4. Stop the timer when the hard drive LED turns off.
- 5. Reset the timer.
- 6. Simultaneously start the timer and press the power button to resume from hibernate mode.
- 7. Stop the timer when the system displays the desktop.
- 8. Repeat steps 1 through 7 two more times.

Sleep experience tests

Cold sleep experience

This test requires a stopwatch. This test requires no setup.

Running the test

- 1. Reboot the system.
- 2. Put the system in sleep mode (Start→Sleep).
- 3. Press the power button to resume from sleep mode.
- 4. Shut down the system.
- 5. Boot the system.
- 6. Wait 5 minutes.
- 7. Put the system in sleep mode (Start→Sleep).
- 8. Simultaneously start the timer and select Sleep.
- 9. Stop the timer when the hard drive LED turns off.
- 10. Reset the timer.
- 11. Simultaneously start the timer and press the power button to resume from sleep mode.
- 12. Stop the timer when the system displays the desktop.
- 13. Shut down the system.
- 14. Repeat steps 5 through 13 two more times, but do not shut down the system after the third timed run.

Warm sleep experience

This test requires a stopwatch. This test requires no setup.

- 1. Wait 1 minute.
- 2. Put the system in sleep mode (Start→Sleep).
- 3. Simultaneously start the timer and select Sleep.

- 4. Stop the timer when the hard drive LED turns off.
- 5. Reset the timer.
- 6. Simultaneously start the timer and press the power button to resume from sleep mode.
- 7. Stop the timer when the system displays the desktop.
- 8. Repeat steps 1 through 7 two more times.

APPENDIX C – DETAILED RESULTS

Figures 12 and 13 present the detailed test results for the systems.

Mid-range systems	Dell Latitude E6420 (Intel Core i5)		HP Pavilion dm1z (AMD Dual-Core)			
Twice runge systems	Run 1	Run 2	Run 3	Run 1	Run 2	Run 3
Opening Microsoft Office files						
Opening local Word document	00:04.01	00:04.96	00:05.11	00:12.90	00:12.54	00:12.61
Opening local Excel spreadsheet	00:02.29	00:02.44	00:02.37	00:05.08	00:04.01	00:03.82
Opening local PowerPoint deck	00:02.08	00:01.95	00:01.83	00:03.95	00:03.09	00:03.79
Opening Word document - network	00:09.09	00:09.30	00:08.81	00:12.69	00:12.57	00:12.01
Opening Excel spreadsheet - network	00:04.36	00:03.30	00:04.09	00:12.03	00:05.90	00:05.23
Opening PowerPoint deck - network	00:04.50	00:04.54	00:04.03	00:04.25	00:03.36	00:03.23
Opening Word document - wireless	00:05.15	00:02:00	00:05.02	00:04.25	00:02:00	00:02:73
Opening Excel spreadsheet - wireless	00:03.99	00:04.12	00:03.72	00:06.26	00:05.17	00:05.65
Opening PowerPoint deck - wireless	00:02.83	00:02.47	00:02.43	00:04.15	00:03.69	00:03.71
USB flash drive tasks	00.02.00	00102117	00.020	00.020	00.00.00	00.00.72
Installing PNY USB flash drive	00:08.13	00:08.45	00:08.45	00:18.09	00:16.75	00:17.45
Installing Kingston USB flash drive	00:03.08	00:03.19	00:02.70	00:02.67	00:03.09	00:03.17
Re-inserting PNY USB flash drive	00:02.70	00:02.64	00:02.66	00:14.53	00:14.60	00:14.78
Re-inserting Kingston USB flash drive	00:01.65	00:01.70	00:01.70	00:01.82	00:01.89	00:01.82
Copying files to a USB flash drive	01:23.38	01:16.91	01:18.81	01:19.23	01:20.36	01:19.71
Copying files from a USB flash drive	00:20.03	00:20.81	00:20.23	00:28.87	00:26.42	00:27.02
Copying files locally	00.20.03	00.20.01	00120120	00.20.07	00120112	00127102
Copying files locally	00:20.57	00:12.56	00:11.59	00:14.34	00:14.83	00:14.92
Boot tasks	00.20.07	00.12.00	00111100	00121101	00121103	00111132
Taskbar appears	00:29.25	00:29.24	00:29.44	00:41.74	00:41.88	00:41.67
Word document appears	00:15.88	00:15.44	00:15.44	00:08.63	00:08.76	00:08.91
Time to connect to Exchange Server						
after booting system	00:12.04	00:10.73	00:08.51	00:12.71	00:12.06	00:11.04
Hibernation tasks						
Cold hibernate experience						
Time to hibernate	00:14.98	00:14.35	00:14.62	00:25.78	00:25.73	00:26.05
Time to resume from hibernate	00:17.88	00:20.93	00:20.40	00:26.96	00:26.45	00:26.22
Warm hibernate experience						
Time to hibernate	00:12.81	00:12.81	00:12.72	00:24.06	00:24.14	00:24.02
Time to resume from hibernate	00:20.49	00:20.51	00:21.18	00:26.26	00:26.17	00:26.12
Sleep tasks						
Cold sleep experience						
Time to sleep	00:04.40	00:04.09	00:04.51	00:08.54	00:08.67	00:07.71
Time to resume from sleep	00:03.26	00:03.52	00:03.15	00:04.52	00:04.42	00:04.44
Warm sleep experience						
Time to sleep	00:04.03	00:04.92	00:04.04	00:04.40	00:04.68	00:04.53

Mid-range systems	Dell Latitude E6420 (Intel Core i5)			HP Pavilion dm1z (AMD Dual-Core)			
	Run 1	Run 2	Run 3	Run 1	Run 2	Run 3	
Time to resume from sleep	00:03.41	00:03.31	00:03.51	00:04.55	00:04.51	00:04.60	
Shutdown							
Time to turn system off	00:14.55	00:14.56	00:13.81	00:20.38	00:20.74	00:20.44	

Figure 12: System responsiveness results, in seconds, for the two mid-range notebook systems. Lower numbers are better.

High-end systems	Dell Latitude E6520		HP Pavilion dv6z Select Edition (AMD Phenom II)			
		Intel Core i7				
On a miner Misses of the Office files	Run 1	Run 2	Run 3	Run 1	Run 2	Run 3
Opening Microsoft Office files	00.02.20	00.02.04	00.02.00	00.10.15	00.00 40	00.00.22
Opening local Word document	00:02.38	00:02.84	00:02.69	00:10.15	00:09.40	00:08.23
Opening local Excel spreadsheet	00:01.48	00:01.28	00:01.18	00:03.09	00:03.75	00:03.87
Opening local PowerPoint deck	00:00.90	00:00.95	00:01.06	00:02.40	00:03.12	00:02.51
Opening Word document - network	00:03.29	00:03.14	00:02.86	00:10.06	00:10.47	00:10.68
Opening Excel spreadsheet - network	00:01.43	00:01.44	00:01.45	00:05.03	00:06.74	00:05.45
Opening PowerPoint deck - network	00:01.20	00:01.76	00:01.24	00:03.28	00:03.60	00:03.40
Opening Word document - wireless	00:02.57	00:03.96	00:02.89	00:10.99	00:11.90	00:10.88
Opening Excel spreadsheet - wireless	00:03.62	00:01.94	00:02.59	00:05.43	00:05.31	00:05.87
Opening PowerPoint deck - wireless	00:01.58	00:01.52	00:02.27	00:02.84	00:03.34	00:03.23
USB flash drive tasks						
Installing PNY USB flash drive	00:03.63	00:04.06	00:03.43	00:08.77	00:08.01	00:08.29
Installing Kingston USB flash drive	00:03.07	00:02.96	00:03.06	00:08.59	00:08.72	00:08.18
Re-inserting PNY USB flash drive	00:02.54	00:02.68	00:02.69	00:02.43	00:03.02	00:02.46
Re-inserting Kingston USB flash drive	00:01.62	00:01.68	00:01.64	00:01.59	00:01.42	00:01.56
Copying files to a USB flash drive	01:00.81	00:59.14	01:00.19	01:10.31	01:10.01	01:10.02
Copying files from a USB flash drive	00:19.22	00:19.23	00:19.83	00:22.25	00:22.26	00:22.24
Copying files locally						
Copying files locally	00:05.46	00:05.35	00:05.37	00:10.30	00:10.71	00:11.50
Boot tasks						
Taskbar appears	00:25.59	00:25.62	00:25.30	00:37.78	00:37.24	00:37.46
Word document appears	00:07.70	00:07.21	00:07.66	00:21.33	00:15.88	00:13.35
Time to connect to Exchange Server	00.02.00	00.02.04	00.02.44	00.00 CE	00.00.33	00.00.00
after booting system	00:02.69	00:02.04	00:02.44	00:08.65	00:08.22	00:08.60
Hibernation tasks						
Cold hibernate experience						
Time to hibernate	00:11.84	00:11.34	00:11.62	00:24.81	00:25.70	00:25.81
Time to resume from hibernate	00:22.71	00:22.83	00:22.68	00:23.41	00:23.37	00:23.31
Warm hibernate experience						
Time to hibernate	00:11.42	00:11.47	00:11.18	00:21.01	00:21.01	00:21.64
Time to resume from hibernate	00:23.49	00:23.65	00:23.07	00:24.26	00:24.37	00:25.96

High-end systems	Dell Latitude E6520 (Intel Core i7)			HP Pavilion dv6z Select Edition (AMD Phenom II)			
	Run 1	Run 2	Run 3	Run 1	Run 2	Run 3	
Sleep tasks							
Cold sleep experience							
Time to sleep	00:02.73	00:02.68	00:02.41	00:08.18	00:08.06	00:07.78	
Time to resume from sleep	00:02.78	00:02.82	00:02.28	00:06.17	00:05.84	00:06.07	
Warm sleep experience							
Time to sleep	00:02.84	00:02.44	00:02.52	00:06.79	00:07.65	00:06.63	
Time to resume from sleep	00:02.29	00:02.35	00:02.53	00:06.35	00:05.99	00:05.80	
Shutdown							
Time to turn system off	00:10.71	00:11.45	00:11.12	00:21.42	00:20.62	00:19.10	

Figure 13: System responsiveness results, in seconds, for the two high-end notebook systems. Lower numbers are better.

APPENDIX D – CORPUS CONTENTS

The 426MB (446,697,762 bytes) test workload included the following files:

11/6/2005	7:14 PM	1,161,163	19th Century Asylum.JPG
9/3/2007	6:10 PM	14,239	2008 calendar10 (2).xlsx
9/3/2007	6:10 PM	14,239	2008 calendar10.xlsx
9/3/2007	11:35 PM	617,349	3boat-Jerome10 (2).docx
9/12/2007	12:57 AM	675,901	3boat-Jerome10 (2).pdf
9/12/2007	12:57 AM	1,071,399	3boat-Jerome10 (2).xps
9/3/2007	11:35 PM	617,349	3boat-Jerome10.docx
9/12/2007	12:57 AM	675,901	3boat-Jerome10.pdf
9/12/2007	12:57 AM	1,071,399	3boat-Jerome10.xps
9/9/2007	1:32 AM	11,947	Adjustable Meeting Agenda template1 (2).xlsx
9/9/2007	1:32 AM	11,947	Adjustable Meeting Agenda template1.xlsx
9/9/2007	2:01 AM	197,621	Adventure Works (2).pptx
9/9/2007	2:01 AM	197,621	Adventure Works.pptx
9/9/2007	1:18 AM	11,953	Agenda1 (2).xlsx
9/9/2007	1:18 AM	11,953	Agenda1.xlsx
9/3/2007	6:14 PM	11,968	Agenda10 (2).xlsx
9/3/2007	6:14 PM	11,968	Agenda10.xlsx
9/3/2007	5:58 PM	774,350	alice-carroll10 (2).docx
9/12/2007	12:56 AM	518,539	alice-carroll10 (2).pdf
9/12/2007	12:56 AM	629,597	alice-carroll10 (2).xps
9/3/2007	5:58 PM	774,350	alice-carroll10.docx
9/12/2007	12:56 AM	518,539	alice-carroll10.pdf
9/12/2007	12:56 AM	629,597	alice-carroll10.xps
7/28/2003	7:56 AM	70,144	Analysis (2).xls
7/28/2003	7:56 AM	70,144	Analysis.xls
9/16/2005	8:39 PM	1,074,183	Ancient christian stone marking Patrick's well.JPG
8/26/2005	5:12 PM	1,041,140	Art Gallery.JPG
9/10/2007	1:16 AM	26,694	Automation (2).rar
9/10/2007	1:16 AM	26,694	Automation.rar
12/19/2003	11:42 PM	16,896	bank24 (2).xls
12/19/2003	11:42 PM	16,896	bank24.xls
12/19/2003	11:42 PM	16,384	bank24temp (2).xls
12/19/2003	11:42 PM	16,384	bank24temp.xls
9/9/2007	1:13 AM	19,547	Bidder comparison worksheet and process1 (2).xlsx
9/9/2007	1:13 AM	19,547	Bidder comparison worksheet and process1.xlsx
9/3/2007	6:15 PM	24,480	Breakeven analysis10 (2).xlsx
9/3/2007	6:15 PM	24,480	Breakeven analysis10.xlsx
9/9/2005	4:22 PM	1,236,485	Bust of Collins.JPG
12/19/2003	11:42 PM	27,136	capbudget (2).xls
12/19/2003	11:42 PM	27,136	capbudget.xls
12/19/2003	11:42 PM	26,624	capbudgettemp (2).xls
12/19/2003	11:42 PM	26,624	capbudgettemp.xls

9/16/2005	8:38 PM	1,135,462	Christ Church 1038 AD.JPG
9/9/2007	12:16 AM	118,051	ChristmasCarol (2).docx
9/12/2007	12:56 AM	287,538	ChristmasCarol (2).pdf
9/12/2007	12:55 AM	507,684	ChristmasCarol (2).xps
9/9/2007	12:16 AM	118,051	ChristmasCarol.docx
9/12/2007	12:56 AM	287,538	ChristmasCarol.pdf
9/12/2007	12:55 AM	507,684	ChristmasCarol.xps
9/9/2005	4:21 PM	1,160,640	Church Altar-All Mosaic! (2).JPG
9/9/2005	4:21 PM	1,160,640	Church Altar-All Mosaic!.JPG
12/19/2003	11:42 PM	24,064	ciscoexpo (2).xls
12/19/2003	11:42 PM	24,064	ciscoexpo.xls
12/19/2003	11:43 PM	15,872	ciscoexpotemp (2).xls
12/19/2003	11:43 PM	15,872	ciscoexpotemp.xls
9/9/2005	4:21 PM	1,049,553	Clonakilty (2).JPG
9/9/2005	4:21 PM	1,049,553	Clonakilty.JPG
9/9/2007	2:03 AM	107,778	Communicating Bad News (2).pptx
9/9/2007	2:03 AM	107,778	Communicating Bad News.pptx
9/9/2007	2:23 AM	142,036	Company Handbook (2).pptx
9/9/2007	2:23 AM	142,036	Company Handbook.pptx
9/9/2007	2:24 AM	137,524	Company Meeting Title (2).pptx
9/9/2007	2:24 AM	137,524	Company Meeting Title.pptx
9/9/2007	2:09 AM	126,324	Company Meeting3 (2).pptx
9/9/2007	2:09 AM	126,324	Company Meeting3.pptx
9/9/2007	1:58 AM	252,618	Company Name (2).pptx
9/9/2007	1:58 AM	252,618	Company Name.pptx
9/9/2007	2:05 AM	340,381	Company Name2 (2).pptx
9/9/2007	2:05 AM	340,381	Company Name2.pptx
9/9/2007	2:18 AM	165,587	Company Name4 (2).pptx
9/9/2007	2:17 AM	165,587	Company Name4.pptx
9/9/2007	9:46 PM	1,467,429	conference (2).pptx
9/9/2007	9:46 PM	1,467,429	conference.pptx
9/11/2007	12:31 AM	1,468,617	conferenceA (2).pptx
9/11/2007	12:31 AM	1,468,617	conferenceA.pptx
9/11/2007	12:31 AM	1,468,621	conferenceC (2).pptx
9/11/2007	12:31 AM	1,468,621	conferenceC.pptx
9/11/2007	12:32 AM	1,468,505	conferenceD (2).pptx
9/11/2007	12:32 AM	1,468,505	conferenceD.pptx
9/11/2007	12:33 AM	1,468,329	conferenceE (2).pptx
9/11/2007	12:32 AM	1,468,329	conferenceE.pptx
9/9/2007	12:10 AM	448,701	ConnecticutYankee (2).docx
9/12/2007	12:53 AM	1,020,765	ConnecticutYankee (2).pdf
9/12/2007	12:53 AM	1,826,512	ConnecticutYankee (2).xps
9/9/2007	12:10 AM	448,701	ConnecticutYankee.docx
9/12/2007	12:53 AM	1,020,765	ConnecticutYankee.pdf
9/12/2007	12:53 AM	1,826,512	ConnecticutYankee.xps
9/3/2007	6:34 PM	1,342,932	copperfield10 (2).docx
9/3/2007	6:34 PM	1,342,932	copperfield10.docx

8/26/2005 5:12 PM 1,673,202 Crossing to UCC.JPG 9/8/2007 8:41 PM 1,260,859 DavidCopperfield (2).docx 9/12/2007 12:58 AM 3,485,857 DavidCopperfield (2).pdf 9/8/2007 12:58 AM 3,485,857 DavidCopperfield.docx 9/12/2007 12:59 AM 5,214,877 DavidCopperfield.docx 9/11/2007 1:30 AM 1,398,507 DavidCopperfieldB.docx 9/11/2007 1:31 AM 1,383,386 DavidCopperfieldB.docx 9/11/2007 1:33 AM 1,446,638 DavidCopperfieldC.docx 9/11/2007 1:34 AM 1,482,655 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:42 PM 59,392 discretesim.xls 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/12/2007 12:44 AM 3,703,813 DombeyandSon.pdf 9/11/2007 1:40 AM 1,596,493 DombeyandSon.docx 9/11/2007 1:41 AM 1,584,598 DombeyandSon.docx	8/26/2005	5:12 PM	1,673,202	Crossing to UCC (2).JPG
9/8/2007 8:41 PM 1,260,859 DavidCopperfield (2).docx 9/12/2007 12:58 AM 3,485,857 DavidCopperfield (2).pdf 9/8/2007 8:41 PM 1,260,859 DavidCopperfield.docx 9/12/2007 12:58 AM 3,485,857 DavidCopperfield.xps 9/11/2007 1:30 AM 1,383,386 DavidCopperfieldd.docx 9/11/2007 1:31 AM 1,383,386 DavidCopperfieldd.docx 9/11/2007 1:33 AM 1,446,638 DavidCopperfieldC.docx 9/11/2007 1:34 AM 1,482,655 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesim.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/11/2007 1:41 AM 3,703,813 DombeyandSon.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSon.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSon.docx 9/11/2007 1:41 AM 1,581,50 DombeyandSon.docx		5:12 PM		
9/12/2007 12:58 AM 3,485,857 DavidCopperfield (2),pdf 9/8/2007 12:58 AM 1,260,859 DavidCopperfield.docx 9/12/2007 12:58 AM 3,485,857 DavidCopperfield.df 9/11/2007 1:30 AM 1,398,507 DavidCopperfieldA.docx 9/11/2007 1:31 AM 1,383,386 DavidCopperfieldB.docx 9/11/2007 1:32 AM 1,446,638 DavidCopperfieldB.docx 9/11/2007 1:34 AM 1,482,655 DavidCopperfieldB.docx 9/11/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesim.xls 12/19/2007 12:41 AM 3,703,813 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.Adocx 9/11/2007 1:40 AM 1,596,493 DombeyandSon.docx 9/11/2007 1:40 AM 1,566,559 DombeyandSon.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSon.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSon.docx		8:41 PM		_
9/12/2007 12:58 AM 3,485,857 DavidCopperfield.pdf 9/12/2007 12:59 AM 5,214,877 DavidCopperfield.xps 9/11/2007 1:31 AM 1,383,386 DavidCopperfieldB.docx 9/11/2007 1:32 AM 1,424,127 DavidCopperfieldC.docx 9/11/2007 1:33 AM 1,446,638 DavidCopperfieldD.docx 9/11/2003 1:42 PM 59,392 discretesimLemp.xls 12/19/2003 11:43 PM 27,136 discretesimLemp.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSon.Adocx 9/11/2007 1:40 AM 1,556,593 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:41 AM 1,586,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx <td< td=""><td>9/12/2007</td><td>12:58 AM</td><td>3,485,857</td><td>DavidCopperfield (2).pdf</td></td<>	9/12/2007	12:58 AM	3,485,857	DavidCopperfield (2).pdf
9/12/2007 12:59 AM 5,214,877 DavidCopperfield.xps 9/11/2007 1:30 AM 1,398,507 DavidCopperfieldA.docx 9/11/2007 1:31 AM 1,383,386 DavidCopperfieldB.docx 9/11/2007 1:33 AM 1,446,638 DavidCopperfieldD.docx 9/11/2007 1:34 AM 1,482,655 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesimtemp.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/12/2007 12:55 AM 5,402,560 DombeyandSon.xps 9/11/2007 1:40 AM 1,596,493 DombeyandSonB.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/	9/8/2007	8:41 PM	1,260,859	DavidCopperfield.docx
9/11/2007 1:30 AM 1,398,507 DavidCopperfieldA.docx 9/11/2007 1:31 AM 1,383,386 DavidCopperfieldB.docx 9/11/2007 1:33 AM 1,424,127 DavidCopperfieldB.docx 9/11/2007 1:33 AM 1,482,655 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesimtemp.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:55 AM 5,402,560 DombeyandSon.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,596,559 DombeyandSonB.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx 9/1	9/12/2007	12:58 AM	3,485,857	DavidCopperfield.pdf
9/11/2007 1:31 AM 1,383,386 DavidCopperfieldB.docx 9/11/2007 1:32 AM 1,424,127 DavidCopperfieldC.docx 9/11/2007 1:33 AM 1,446,638 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2007 12:41 AM 3,703,813 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/12/2007 1:40 AM 1,596,493 DombeyandSon.xps 9/11/2007 1:40 AM 1,596,493 DombeyandSon.Adocx 9/11/2007 1:40 AM 1,594,242 DombeyandSon.Adocx 9/11/2007 1:41 AM 1,556,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 Doorways of Cashel.JPG 9/11/2007 1:43 AM 1,581,002 Dorways of Cashel.JPG 9/12/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG	9/12/2007	12:59 AM	5,214,877	DavidCopperfield.xps
9/11/2007 1:32 AM 1,424,127 DavidCopperfieldC.docx 9/11/2007 1:33 AM 1,446,638 DavidCopperfieldD.docx 9/11/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:42 PM 59,392 discretesim.tls 12/19/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonC.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:40 AM 1,485,818 DombeyandSonD.docx 9/12/2007	9/11/2007	1:30 AM	1,398,507	DavidCopperfieldA.docx
9/11/2007 1:34 AM 1,446,638 DavidCopperfieldD.docx 9/11/2007 1:34 AM 1,482,655 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesim.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/12/2007 12:55 AM 5,402,560 DombeyandSon.xps 9/11/2007 1:40 AM 1,596,493 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonB.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonB.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonB.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonB.docx 9/11/2007 1:40 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 8:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 27,648 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/5/2007 10:55 AM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fv.xls 12/19/2003 11:42 PM 13,824 f	9/11/2007	1:31 AM	1,383,386	DavidCopperfieldB.docx
9/11/2007 1:34 AM 1,482,655 DavidCopperfieldE.docx 12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesimtemp.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,594,242 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:40 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:40 AM 1,581,002 DombeyandSonB.docx 9/12/2007	9/11/2007	1:32 AM	1,424,127	DavidCopperfieldC.docx
12/19/2003 11:42 PM 59,392 discretesim.xls 12/19/2003 11:43 PM 27,136 discretesimtemp.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.xps 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx 9/11/2007 1:40 AM 2,6103 Due diligence assessment model1.xlsx 8/26/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar	9/11/2007	1:33 AM	1,446,638	DavidCopperfieldD.docx
12/19/2003 11:43 PM 27,136 discretesimtemp.xls 9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonC.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/	9/11/2007	1:34 AM	1,482,655	DavidCopperfieldE.docx
9/8/2007 9:52 PM 1,343,812 DombeyandSon.docx 9/12/2007 12:41 AM 3,703,813 DombeyandSon.pdf 9/12/2007 12:55 AM 5,402,560 DombeyandSon.docx 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonD.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/5/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 12/19/	12/19/2003	11:42 PM	59,392	discretesim.xls
9/12/2007 12:41 AM 3,703,813 DombeyandSon.xps 9/12/2007 12:55 AM 5,402,560 DombeyandSon.xps 9/11/2007 1:40 AM 1,596,493 DombeyandSonB.docx 9/11/2007 1:41 AM 1,594,242 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonE.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/12/2007 1:50 AM 1,495,818 DombeyandSonE.docx 9/3/2007 6:19 AM 1,425,818 DombeyandSonE.docx	12/19/2003	11:43 PM	27,136	discretesimtemp.xls
9/12/2007 12:55 AM 5,402,560 DombeyandSon.xps 9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,594,242 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonC.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonE.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 196,974 FINANCIAL PERFORMANCE.pptx 9/9/2007 12:24 PM 27,648 finmathsolver.xls <t< td=""><td>9/8/2007</td><td>9:52 PM</td><td>1,343,812</td><td>DombeyandSon.docx</td></t<>	9/8/2007	9:52 PM	1,343,812	DombeyandSon.docx
9/11/2007 1:40 AM 1,596,493 DombeyandSonA.docx 9/11/2007 1:40 AM 1,594,242 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonD.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:31 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 27,648 finmathsolver.mls 9/5/200	9/12/2007	12:41 AM	3,703,813	DombeyandSon.pdf
9/11/2007 1:40 AM 1,594,242 DombeyandSonB.docx 9/11/2007 1:41 AM 1,566,559 DombeyandSonC.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolveremp.xls 9/5/20	9/12/2007	12:55 AM	5,402,560	DombeyandSon.xps
9/11/2007 1:41 AM 1,566,559 DombeyandSonC.docx 9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 27,648 finmathsolver.mls 9/5/2007 11:41 AM 48,776,192 Followup.pst 10/1/2005 8:19 PM 1,277,141 Forecasting report10.xlsx 10/1/	9/11/2007	1:40 AM	1,596,493	DombeyandSonA.docx
9/11/2007 1:41 AM 1,581,002 DombeyandSonD.docx 9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolver.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003	9/11/2007	1:40 AM	1,594,242	DombeyandSonB.docx
9/11/2007 1:42 AM 1,495,818 DombeyandSonE.docx 9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 9/9/2007 2:22 AM 169,394 Financial Performance2.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,2777,141 Forest stream.JPG	9/11/2007	1:41 AM	1,566,559	DombeyandSonC.docx
9/16/2005 8:40 PM 1,334,598 Doorways of Cashel.JPG 9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 12/19/2003 11:42 PM 21,604 finmathsolver.xls 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fvxls 12/19/2003	9/11/2007	1:41 AM	1,581,002	DombeyandSonD.docx
9/9/2007 1:10 AM 26,103 Due diligence assessment model1.xlsx 8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 9/9/2007 2:22 AM 169,394 Financial Performance2.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fv.xls 12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 1	9/11/2007	1:42 AM	1,495,818	DombeyandSonE.docx
8/26/2005 5:12 PM 1,235,942 Entering Campus.JPG 9/3/2007 6:39 PM 65,287 Excelfiles10.rar 9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 9/9/2007 2:22 AM 169,394 Financial Performance2.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 2:5	9/16/2005	8:40 PM	1,334,598	Doorways of Cashel.JPG
9/3/20076:39 PM65,287Excelfiles10.rar9/3/20076:13 PM15,249Expense budget10.xlsx12/19/200311:42 PM13,824exponentialdata.xls12/19/200311:42 PM51,200fantasy2.xls9/9/20071:57 AM196,974FINANCIAL PERFORMANCE.pptx9/9/20072:22 AM169,394Financial Performance2.pptx12/19/200311:42 PM27,648finmathsolver.xls12/19/200311:42 PM21,504finmathsolvetemp.xls9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/9/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	9/9/2007	1:10 AM	26,103	Due diligence assessment model1.xlsx
9/3/2007 6:13 PM 15,249 Expense budget10.xlsx 12/19/2003 11:42 PM 13,824 exponentialdata.xls 12/19/2003 11:42 PM 51,200 fantasy2.xls 9/9/2007 1:57 AM 196,974 FINANCIAL PERFORMANCE.pptx 9/9/2007 2:22 AM 169,394 Financial Performance2.pptx 12/19/2003 11:42 PM 27,648 finmathsolver.xls 12/19/2003 11:42 PM 21,504 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fv.xls 12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	8/26/2005	5:12 PM	1,235,942	Entering Campus.JPG
12/19/200311:42 PM13,824exponentialdata.xls12/19/200311:42 PM51,200fantasy2.xls9/9/20071:57 AM196,974FINANCIAL PERFORMANCE.pptx9/9/20072:22 AM169,394Financial Performance2.pptx12/19/200311:42 PM27,648finmathsolver.xls12/19/200311:42 PM21,504finmathsolvetemp.xls9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	9/3/2007	6:39 PM	65,287	Excelfiles10.rar
12/19/200311:42 PM51,200fantasy2.xls9/9/20071:57 AM196,974FINANCIAL PERFORMANCE.pptx9/9/20072:22 AM169,394Financial Performance2.pptx12/19/200311:42 PM27,648finmathsolver.xls12/19/200311:42 PM21,504finmathsolvetemp.xls9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/20072:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	9/3/2007	6:13 PM	15,249	Expense budget10.xlsx
9/9/20071:57 AM196,974FINANCIAL PERFORMANCE.pptx9/9/20072:22 AM169,394Financial Performance2.pptx12/19/200311:42 PM27,648finmathsolver.xls12/19/200311:42 PM21,504finmathsolvetemp.xls9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	12/19/2003	11:42 PM	13,824	exponentialdata.xls
9/9/20072:22 AM169,394Financial Performance2.pptx12/19/200311:42 PM27,648finmathsolver.xls12/19/200311:42 PM21,504finmathsolvetemp.xls9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	12/19/2003	11:42 PM	51,200	fantasy2.xls
12/19/200311:42 PM27,648finmathsolver.xls12/19/200311:42 PM21,504finmathsolvetemp.xls9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	9/9/2007	1:57 AM	196,974	FINANCIAL PERFORMANCE.pptx
12/19/2003 11:42 PM 21,504 finmathsolvetemp.xls 9/5/2007 11:41 AM 48,776,192 Followup.pst 9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fv.xls 12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	9/9/2007	2:22 AM	169,394	Financial Performance2.pptx
9/5/200711:41 AM48,776,192Followup.pst9/3/20076:12 PM20,173Forecasting report10.xlsx10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	12/19/2003	11:42 PM	27,648	finmathsolver.xls
9/3/2007 6:12 PM 20,173 Forecasting report10.xlsx 10/1/2005 8:19 PM 1,277,141 Forest stream.JPG 12/19/2003 11:42 PM 13,824 fv.xls 12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	12/19/2003	11:42 PM	21,504	finmathsolvetemp.xls
10/1/20058:19 PM1,277,141Forest stream.JPG12/19/200311:42 PM13,824fv.xls12/19/200311:42 PM13,824fvtemp.xls9/9/200710:55 AM263,477General Presentation.pptx9/8/200710:24 PM567,592gildedage.docx9/9/20071:51 PM33,996GoingIntoSociety.docx9/12/20072:52 AM78,803GoingIntoSociety.pdf9/12/20072:52 AM126,330GoingIntoSociety.xps9/3/200711:32 PM704,846Grimm10.docx9/12/200712:52 AM1,436,779Grimm10.pdf9/9/20072:01 PM79,114Hadleyburg.docx	9/5/2007	11:41 AM	48,776,192	Followup.pst
12/19/2003 11:42 PM 13,824 fv.xls 12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	9/3/2007	6:12 PM	20,173	Forecasting report10.xlsx
12/19/2003 11:42 PM 13,824 fvtemp.xls 9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	10/1/2005	8:19 PM		Forest stream.JPG
9/9/2007 10:55 AM 263,477 General Presentation.pptx 9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	12/19/2003	11:42 PM	13,824	fv.xls
9/8/2007 10:24 PM 567,592 gildedage.docx 9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	12/19/2003	11:42 PM	13,824	fvtemp.xls
9/9/2007 1:51 PM 33,996 GoingIntoSociety.docx 9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	9/9/2007	10:55 AM	263,477	General Presentation.pptx
9/12/2007 2:52 AM 78,803 GoingIntoSociety.pdf 9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	9/8/2007	10:24 PM	567,592	
9/12/2007 2:52 AM 126,330 GoingIntoSociety.xps 9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	9/9/2007	1:51 PM	33,996	GoingIntoSociety.docx
9/3/2007 11:32 PM 704,846 Grimm10.docx 9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx		2:52 AM	78,803	GoingIntoSociety.pdf
9/12/2007 12:52 AM 1,436,779 Grimm10.pdf 9/9/2007 2:01 PM 79,114 Hadleyburg.docx	9/12/2007	2:52 AM	126,330	GoingIntoSociety.xps
9/9/2007 2:01 PM 79,114 Hadleyburg.docx		11:32 PM	<u>.</u>	
• • •				·
9/12/2007 2:53 AM 224,473 Hadleyburg.pdf			•	
	9/12/2007	2:53 AM	224,473	Hadleyburg.pdf

9/12/2007	2:53 AM	329,705	Hadleyburg.xps
9/9/2007	1:35 PM	398,837	HardTimes.docx
9/12/2007	2:51 AM	1,076,448	HardTimes.pdf
9/12/2007	2:51 AM	1,610,487	HardTimes.xps
9/3/2007	11:28 PM	517,037	Holmes10.docx
9/12/2007	12:52 AM	1,402,971	Holmes10.pdf
7/28/2003	7:56 AM	23,040	Home Price Estimator.xls
9/3/2007	11:27 PM	832,842	Homer10.docx
9/12/2007	12:51 AM	1,856,367	Homer10.pdf
10/1/2005	8:18 PM	1,386,326	House grounds.JPG
9/9/2007	1:23 PM	381,257	HuckFinn.docx
9/12/2007	2:50 AM	843,079	HuckFinn.pdf
9/12/2007	2:48 AM	1,464,587	HuckFinn.xps
9/9/2007	1:04 PM	735,024	InnocentsAbroad.docx
9/9/2007	9:49 PM	1,812,449	Introducing PowerPoint 2007.pptx
9/11/2007	12:34 AM	1,812,476	Introducing PowerPoint 2007A.pptx
9/11/2007	12:34 AM	1,812,480	Introducing PowerPoint 2007B.pptx
9/11/2007	12:35 AM	1,812,479	Introducing PowerPoint 2007C.pptx
9/11/2007	12:35 AM	1,812,488	Introducing PowerPoint 2007D.pptx
9/11/2007	12:35 AM	1,812,481	Introducing PowerPoint 2007E.pptx
9/3/2007	6:11 PM	19,198	Inventory-analysis10.xlsx
9/3/2007	5:35 PM	1,346,405	Ireland descriptions10.pptx
9/11/2007	12:37 AM	1,346,414	Ireland descriptions10A.pptx
9/11/2007	12:37 AM	1,337,272	Ireland descriptions108.pptx
9/11/2007	12:37 AM	1,534,168	Ireland descriptions10C.pptx
9/11/2007	12:37 AM	1,067,473	Ireland descriptions10D.pptx
9/11/2007	12:38 AM	1,097,490	Ireland descriptions10E.pptx
9/3/2007	5:32 PM	12,967,947	Ireland presentation10.pptx
9/11/2007 9/11/2007	12:40 AM 1:37 PM	13,000,486 6,781,038	Ireland presentation10a.pptx Ireland6.zip
9/11/2007	1:38 PM	8,821,083	Ireland7.zip
9/16/2005	8:39 PM	1,503,203	Irish country lane.JPG
11/6/2005	7:15 PM	1,479,824	Killarney waterfall.JPG
9/11/2007	1:56 AM	7,096,706	leonardo.zip
9/11/2007	1:46 AM	1,155,760	Leonardo10.docx
9/12/2007	12:50 AM	3,245,463	Leonardo10.pdf
9/11/2007	1:47 AM	1,152,103	Leonardo10A.docx
9/11/2007	1:48 AM	1,170,931	Leonardo10B.docx
9/11/2007	1:48 AM	1,156,831	Leonardo10C.docx
9/11/2007	1:49 AM	1,333,853	Leonardo10D.docx
9/11/2007	1:50 AM	1,153,155	Leonardo10E.docx
9/9/2007	12:40 PM	544,715	LifeonMississippi.docx
9/12/2007	12:49 AM	1,343,595	LifeonMississippi.pdf
9/9/2007	2:00 PM	1,278,447	LittleDorrit.docx
9/12/2007	12:48 AM	3,339,544	LittleDorrit.pdf
9/11/2007	1:51 AM	1,024,556	LittleDorritA.docx
9/11/2007	1:51 AM	1,008,950	LittleDorritB.docx

0/44/2007	4 54 484	4 000 244	Links December 21 Codes
9/11/2007	1:51 AM	1,009,241	LittleDorritC.docx
9/11/2007	1:52 AM	1,019,386	LittleDorritD.docx
9/11/2007	1:52 AM	1,018,168	LittleDorritE.docx
11/6/2005	7:13 PM	1,109,309	Looking East.JPG
11/4/2002	12:48 PM	20,480	LookupFunctions.xls
10/1/2005	8:19 PM	1,345,552	Lovely foliage.JPG
9/16/2005	8:36 PM	1,263,229	Main Gate Trinity.JPG
9/9/2007	2:08 AM	92,724	Marketing Plan.pptx
9/9/2007	2:44 AM	1,280,593	MartinChuzzlewit.docx
9/12/2007	12:47 AM	3,304,603	MartinChuzzlewit.pdf
9/9/2007	4:07 PM	1,280,678	MartinChuzzlewit.rar
9/11/2007	1:53 AM	1,018,128	MartinChuzzlewitA.docx
9/11/2007	1:53 AM	1,020,651	MartinChuzzlewitB.docx
9/11/2007	1:54 AM	1,017,247	MartinChuzzlewitC.docx
9/11/2007	1:54 AM	1,023,558	MartinChuzzlewitD.docx
9/11/2007	1:55 AM	1,020,227	MartinChuzzlewitE.docx
9/3/2007	11:47 PM	614,882	Math - Dudeney10.docx
9/11/2007	12:42 AM	800,966	Microsoft© Office A.pptx
9/11/2007	12:43 AM	800,998	Microsoft© Office B.pptx
9/11/2007	12:43 AM	800,994	Microsoft© Office C.pptx
9/11/2007	12:44 AM	800,974	Microsoft© Office D.pptx
9/11/2007	12:44 AM	801,013	Microsoft© Office E.pptx
9/9/2007	10:59 AM	1,025,163	Microsoft© Office.pptx
	10.39 AW 12:52 PM		
9/9/2007		948,893	Microsoft© Office10.pptx
9/9/2007	1:06 PM	416,471	Microsoft© Office11.pptx
9/9/2007	12:53 PM	818,133	Microsoft© Office12.pptx
9/9/2007	12:54 PM	969,801	Microsoft© Office13.pptx
9/9/2007	12:56 PM	969,806	Microsoft© Office14.pptx
9/9/2007	12:56 PM	956,565	Microsoft© Office15.pptx
9/9/2007	1:01 PM	839,836	Microsoft© Office16.pptx
9/9/2007	12:57 PM	1,561,643	Microsoft© Office17.pptx
9/11/2007	12:53 AM	1,561,260	Microsoft© Office17A.pptx
9/11/2007	12:54 AM	1,561,582	Microsoft© Office17B.pptx
9/11/2007	12:54 AM	1,561,564	Microsoft© Office17C.pptx
9/11/2007	12:55 AM	1,561,657	Microsoft© Office17D.pptx
9/11/2007	12:55 AM	1,561,617	Microsoft© Office17E.pptx
9/9/2007	12:58 PM	562,491	Microsoft© Office18.pptx
9/9/2007	2:07 PM	327,489	Microsoft© Office19.pptx
9/9/2007	1:21 PM	712,466	Microsoft© Office2.pptx
9/9/2007	12:59 PM	1,244,906	Microsoft© Office20.pptx
9/11/2007	12:56 AM	1,186,711	Microsoft© Office20A.pptx
9/11/2007	12:57 AM	1,186,722	Microsoft© Office20B.pptx
9/11/2007	12:57 AM	1,186,727	Microsoft© Office20C.pptx
9/11/2007	12:58 AM	1,186,726	Microsoft© Office20D.pptx
9/11/2007	12:58 AM	1,186,726	Microsoft© Office20E.pptx
9/9/2007	1:00 PM	949,022	Microsoft© Office21.pptx
9/9/2007	1:02 PM	981,825	Microsoft© Office22.pptx
2/2/2007	1.04 I IVI	301,023	wheresome officezz.pptx

9/11/2007	1:23 AM	1,200,628	Microsoft© Office23.pptx
9/11/2007	1:23 AM	1,200,641	Microsoft© Office23A.pptx
9/11/2007	1:24 AM	1,200,610	Microsoft© Office23B.pptx
9/11/2007	1:24 AM	1,200,622	Microsoft© Office23C.pptx
9/11/2007	1:25 AM	1,200,706	Microsoft© Office23D.pptx
9/11/2007	1:25 AM	1,200,671	Microsoft© Office23E.pptx
9/9/2007	1:03 PM		
• •		1,013,396	Microsoft© Office24.pptx
9/9/2007	1:06 PM	962,131	Microsoft© Office25.pptm
9/9/2007	11:00 AM	650,568	Microsoft© Office25.pptx
9/11/2007	12:28 AM	958,094	Microsoft© Office25A.pptx
9/11/2007	12:28 AM	958,084	Microsoft© Office25B.pptx
9/11/2007	12:28 AM	958,053	Microsoft© Office25C.pptx
9/11/2007	12:29 AM	958,053	Microsoft© Office25D.pptx
9/11/2007	12:29 AM	958,086	Microsoft© Office25E.pptx
9/9/2007	1:08 PM	1,145,214	Microsoft© Office26.pptm
9/9/2007	2:26 PM	428,891	Microsoft© Office26.pptx
9/11/2007	12:22 AM	1,141,348	Microsoft© Office26A.pptx
9/11/2007	12:23 AM	1,141,351	Microsoft© Office26B.pptx
9/11/2007	_		
	12:23 AM	1,141,370	Microsoft© Office26C.pptx
9/11/2007	12:23 AM	1,141,363	Microsoft© Office26D.pptx
9/11/2007	12:24 AM	1,141,355	Microsoft© Office26E.pptx
9/9/2007	1:09 PM	603,421	Microsoft© Office27.pptx
9/9/2007	1:09 PM	478,895	Microsoft© Office28.pptx
9/9/2007	1:10 PM	941,158	Microsoft© Office29.pptx
9/9/2007	12:50 PM	1,571,647	Microsoft© Office3.pptx
9/9/2007	1:11 PM	739,109	Microsoft© Office30.pptm
9/9/2007	2:25 PM	461,492	Microsoft© Office30.pptx
9/9/2007	1:12 PM	1,221,010	Microsoft© Office31.pptx
9/11/2007	1:26 AM	1,220,255	Microsoft© Office31A.pptx
9/11/2007	1:26 AM	1,220,233	Microsoft© Office31B.pptx
9/11/2007	1:26 AM	1,220,277	
			Microsoft© Office31C.pptx
9/11/2007	1:27 AM	1,220,272	Microsoft© Office31D.pptx
9/11/2007	1:27 AM	1,220,296	Microsoft© Office31E.pptx
9/11/2007	1:27 AM	1,220,319	Microsoft© Office31F.pptx
9/9/2007	1:13 PM	583,427	Microsoft© Office32.pptx
9/9/2007	1:16 PM	391,371	Microsoft© Office33.pptx
9/9/2007	1:21 PM	449,972	Microsoft© Office34.pptx
9/9/2007	1:22 PM	322,092	Microsoft© Office35.pptx
9/9/2007	1:28 PM	479,077	Microsoft© Office36.pptx
9/9/2007	1:28 PM	472,584	Microsoft© Office37.pptx
9/9/2007	1:29 PM	230,500	Microsoft© Office38.pptx
9/9/2007	1:30 PM	481,285	Microsoft© Office39.pptx
9/11/2007	12:45 AM	1,571,526	Microsoft© Office3A.pptx
9/11/2007	12:45 AM	1,571,520	• • • • • • • • • • • • • • • • • • • •
			Microsoft© Office3B.pptx
9/11/2007	12:46 AM	1,571,475	Microsoft© Office3C.pptx
9/11/2007	12:46 AM	1,571,476	Microsoft© Office3D.pptx
9/11/2007	12:47 AM	1,571,505	Microsoft© Office3E.pptx

9/9/2007	12:44 PM	969,628	Microsoft© Office4.pptx
9/9/2007	1:31 PM	698,766	Microsoft© Office40.pptx
9/9/2007	1:32 PM	515,699	Microsoft© Office41.pptx
9/9/2007	1:33 PM	393,466	Microsoft© Office42.pptx
9/9/2007	1:34 PM	355,726	Microsoft© Office43.pptx
9/9/2007	2:07 PM	389,387	Microsoft© Office44.pptx
9/9/2007	2:08 PM	390,223	Microsoft© Office45.pptx
9/9/2007	2:09 PM	740,630	Microsoft© Office46.pptx
9/9/2007	2:13 PM	341,546	Microsoft© Office47.pptx
9/9/2007	2:15 PM	635,972	Microsoft© Office48.pptx
9/9/2007	2:23 PM	556,818	Microsoft© Office49.pptx
9/9/2007	11:03 AM	498,391	Microsoft© Office5.pptx
9/9/2007	2:24 PM	695,362	Microsoft© Office50.pptx
9/9/2007	11:02 AM	1,015,401	Microsoft© Office51.pptx
9/9/2007	4:12 PM	428,908	Microsoft© Office52.pptx
9/9/2007	4:12 PM	350,753	Microsoft© Office53.pptx
9/9/2007	4:13 PM	976,384	Microsoft© Office54.ppt
9/9/2007	4:14 PM	314,015	Microsoft© Office54.pptx
9/11/2007	12:25 AM	554,598	Microsoft© Office54A.pptx
9/11/2007	12:25 AM	554,610	Microsoft© Office54B.pptx
9/11/2007	12:26 AM	554,612	Microsoft© Office54C.pptx
9/11/2007	12:26 AM	554,611	Microsoft© Office54D.pptx
9/11/2007	12:26 AM	554,610	Microsoft© Office54E.pptx
9/9/2007	5:48 PM	437,892	Microsoft© Office55.pptx
9/9/2007	5:49 PM	573,438	Microsoft© Office56.pptx
9/9/2007	8:49 PM	573,428	Microsoft© Office57.pptx
9/9/2007	8:50 PM	525,453	Microsoft© Office58.pptx
9/9/2007	9:21 PM	297,037	Microsoft© Office59.pptx
9/9/2007	11:16 AM	498,382	Microsoft© Office6.pptx
9/9/2007	9:22 PM	569,541	Microsoft© Office60.pptx
9/9/2007	9:25 PM	365,319	Microsoft© Office61.pptx
9/9/2007	9:26 PM	383,562	Microsoft© Office62.pptx
9/9/2007	9:26 PM	356,419	Microsoft© Office63.pptx
9/9/2007	9:27 PM	656,644	Microsoft© Office64.pptx
9/9/2007	9:28 PM	580,065	Microsoft© Office65.pptx
9/9/2007	9:31 PM	453,163	Microsoft© Office66.pptx
9/9/2007	9:31 PM	388,797	Microsoft© Office67.pptx
9/9/2007	9:32 PM	409,618	Microsoft© Office68.pptx
9/9/2007	9:34 PM	618,184	Microsoft© Office69.pptx
9/9/2007	12:43 PM	1,696,999	Microsoft© Office7.pptx
9/9/2007	9:35 PM	304,286	Microsoft© Office70.pptx
9/9/2007	9:36 PM	451,891	Microsoft© Office71.pptx
9/9/2007	9:37 PM	258,210	Microsoft© Office72.pptx
9/9/2007	9:37 PM	473,998	Microsoft© Office73.pptx
9/9/2007	9:38 PM	547,570	Microsoft© Office74.pptx
9/9/2007	9:39 PM	587,596	Microsoft© Office75.pptx
9/9/2007	9:40 PM	247,814	Microsoft© Office76.pptx

9/9/2007	9:40 PM	386,262	Microsoft© Office77.pptx
9/9/2007	9:41 PM	435,885	Microsoft© Office78.pptx
9/9/2007	9:42 PM	260,788	Microsoft© Office79.pptx
9/11/2007	12:48 AM	1,672,311	Microsoft© Office7A.pptx
9/11/2007	12:48 AM	1,672,332	Microsoft© Office7B.pptx
9/11/2007	12:49 AM	1,672,329	Microsoft© Office7C.pptx
9/11/2007	12:49 AM	1,672,323	Microsoft© Office7D.pptx
9/11/2007	12:50 AM	1,672,355	Microsoft© Office7E.pptx
9/9/2007	12:51 PM	1,464,915	Microsoft© Office8.pptx
9/9/2007	9:44 PM	349,939	Microsoft© Office80.pptx
9/9/2007	9:44 PM	298,069	Microsoft© Office81.pptx
9/9/2007	9:57 PM	635,975	Microsoft© Office82.pptx
9/9/2007	10:00 PM	451,882	Microsoft© Office83.pptx
9/12/2007	12:00 AM	1,465,093	Microsoft© Office8A.pptx
9/12/2007	12:38 AM	1,465,103	Microsoft© Office8B.pptx
9/12/2007	12:38 AM	1,465,058	Microsoft© Office8C.pptx
9/12/2007	12:39 AM		• •
		1,465,089	Microsoft© Office8D.pptx
9/12/2007	12:39 AM	1,465,168	Microsoft© Office8E.pptx
9/9/2007	12:51 PM	803,809	Microsoft© Office9.pptx
9/9/2007	4:07 PM	702,034	Microsoft© Office9.rar
9/9/2007	1:21 AM	69,239	MONDAY.docx
10/1/2005	8:20 PM	1,292,403	Mountain stream.JPG
10/1/2005	8:18 PM	1,263,306	Muckross House.JPG
9/9/2007	2:33 AM	161,083	MysteriousStranger.docx
12/19/2003	11:42 PM	92,160	NBA01_02.xls
12/19/2003	11:42 PM	136,704	nba02_03.xls
12/19/2003	11:42 PM	29,184	nfl01.xls
12/19/2003	11:42 PM	68,096	NFL2002ratings.xls
		•	_
12/19/2003	11:42 PM	216,576	nfl2002temp.xls
9/9/2007	3:55 PM	1,250,320	NicholasNickleby.docx
12/19/2003	11:42 PM	59,392	normalsim.xls
12/19/2003	11:43 PM	27,136	normalsimtemp.xls
9/9/2007	2:30 AM	828,326	OldCuriosityShop.docx
9/9/2007	4:07 PM	827,783	OldCuriosityShop.rar
9/9/2007	2:15 AM	625,145	OliverTwist.docx
9/3/2007	11:23 PM	417,426	Organization Chart10.pptx
9/9/2007	1:40 AM	1,230,430	OurMutualFriend.docx
9/16/2005	8:39 PM	1,045,606	Out to the valley of Cashel.JPG
7/28/2003	7:56 AM	26,624	Pacific Guitar Sales.xls
9/3/2007	6:36 PM	201,756	Pan10.docx
9/9/2007	12:42 AM	1,195,872	PickWickPapers.docx
9/9/2007	1:59 AM	177,375	Pitchbook.pptx
9/3/2007	6:18 PM	357,410	Plant10.pptx
12/19/2003	11:42 PM	15,872	pmt.xls
12/19/2003	11:42 PM	13,824	pmttemp.xls
9/3/2007	5:48 PM	14,454,815	PPTfiles10.rar
9/9/2007	10:57 AM	42,444	Presentation1.pptx
		, .	

9/3/2007	6:19 PM	126 024	Procentation 10 naty
9/9/2007	9:50 PM	136,034 317,684	Presentation10.pptx presentation2.pptx
9/9/2007	9:51 PM	74,504	presentation3.pptx
9/9/2007	9:51 PM	134,559	Presentation4.pptx
9/9/2007	9:52 PM	53,903	Presentation5.pptx
12/19/2003	11:42 PM	16,384	pressdata.xls
9/9/2007	12:32 AM	277,232	PrinceandPauper.docx
9/3/2007	5:33 PM	144,246	Process diagram10.pptx
12/19/2003	11:42 PM	28,160	prodmix.xls
12/19/2003	11:42 PM	26,112	prodmixtemp.xls
9/9/2007	2:11 AM	87,243	Product Name.pptx
9/9/2007	2:21 AM	300,846	Product Name5.pptx
9/9/2007	2:00 AM	283,493	Product Name].pptx
9/3/2007	6:10 PM	18,598	Project compare10.xlsx
9/9/2007	2:07 AM	206,208	Project Compare 10.xisx Project Overview.pptx
9/9/2007	1:53 AM	11,852	Purchase order with sales tax1.xlsx
9/9/2007	1:49 AM	16,460	Purchase order(2)1.xlsx
9/9/2007	1:49 AM	15,854	Purchase order(3)1.xlsx
9/9/2007	1:51 AM	15,734	Purchase order(4)1.xlsx
9/9/2007	1:48 AM	21,972	PURCHASE ORDER.docx
9/3/2007	6:16 PM	15,819	Purchase order10.xlsx
12/19/2003	11:42 PM	13,819	PV.xls
12/19/2003	11:42 PM	13,824	PVtemp.xls
9/9/2007	2:13 AM	75,931	Quarterly Results and pptx
12/19/2003	11:42 PM	41,984	randdemo.xls
12/19/2003	11:42 PW	27,136	randdemotemp.xls
9/9/2007	2:18 AM	76,882	Recommending a Strategy.pptx
12/19/2003	11:42 PM	17,920	ReorderPoint_Backorder.xls
12/19/2003	11:42 PM	17,920	ReorderPoint_Lostsales.xls
9/9/2007	2:23 AM	122,701	Reporting Progress or Status.pptx
9/9/2007	2:23 AM	161,158	Return on Investment.pptx
10/1/2005	8:19 PM	1,288,715	Ring of Kerry.JPG
11/5/2005	6:39 PM	1,070,887	River Lee rising.JPG
11/6/2005	7:13 PM	1,109,309	River Rising.JPG
9/9/2007	2:27 PM	632,401	Roughinglt.docx
9/11/2007	12:03 AM	45,764	s1-s10.rar
12/19/2003	11:42 PM	13,824	s10 1.xls
12/19/2003	11:42 PM	13,824	s10_10.xls
12/19/2003	11:42 PM	13,824	s10_2.xls
12/19/2003	11:42 PM	15,872	s10_3.xls
12/19/2003	11:42 PM	13,872	s10_4.xls
12/19/2003	11:42 PM	13,824	s10_5.xls
12/19/2003	11:42 PM	14,336	s10_5.xis s10_6.xis
12/19/2003	11:42 PM	97,280	\$10_0.xis \$10_7.xls
12/19/2003	11:42 PM	97,280	\$10_7.xis \$10_8.xls
12/19/2003	11:42 PM	13,824	\$10_8.xls \$10_9.xls
9/11/2007	12:04 AM	10,898	s24.rar
3/11/2007	12.04 AIVI	10,030	327.101

12/19/2003	11:42 PM	13,824	s24_1.xls
12/19/2003	11:42 PM	13,824	s24_2.xls
12/19/2003	11:42 PM	13,824	s24_3.xls
12/19/2003	11:42 PM	13,824	s24_4.xls
12/19/2003	11:42 PM	13,824	s24_5.xls
12/19/2003	11:42 PM	13,824	s24_6.xls
12/19/2003	11:42 PM	13,824	s24_7.xls
9/11/2007	12:04 AM	11,542	s25.zip
12/19/2003	11:42 PM	14,848	s25_1.xls
12/19/2003	11:42 PM	15,360	s25_2.xls
12/19/2003	11:42 PM	14,848	s25_3.xls
12/19/2003	11:42 PM	14,848	s25_4.xls
12/19/2003	11:42 PM	15,360	s25_5.xls
9/11/2007	12:05 AM	12,276	s26.zip
12/19/2003	11:42 PM	16,384	s26_1.xls
12/19/2003	11:42 PM	16,896	s26_2.xls
12/19/2003	11:42 PM	19,968	s26_3.xls
12/19/2003	11:42 PM	15,360	s26_4.xls
12/19/2003	11:42 PM	16,896	s27_1.xls
12/19/2003	11:42 PM	17,920	s27_2.xls
12/19/2003	11:42 PM	16,896	s27_3.xls
12/19/2003	11:42 PM	15,360	s27_4.xls
12/19/2003	11:42 PM	29,696	s28_1.xls
12/19/2003	11:42 PM	17,408	s28_2.xls
12/19/2003	11:42 PM	23,552	s29_1.xls
12/19/2003	11:42 PM	23,552	s29_2.xls
12/19/2003	11:42 PM	16,384	s29_3.xls
12/19/2003	11:42 PM	26,112	s29_4.xls
12/19/2003	11:42 PM	15,872	s29_5.xls
12/19/2003	11:42 PM	264,192	S30_1.xls
12/19/2003	11:42 PM	259,584	s30_2.xls
12/19/2003	11:42 PM	56,832	s30_3.xls
12/19/2003	11:42 PM	13,824	s30_4.xls
12/19/2003	11:42 PM	13,824	s30_5.xls
12/19/2003	11:42 PM	22,016	S42problems1thru4.xls
12/19/2003	11:42 PM	21,504	S42problems1thru5.xls
9/11/2007	12:06 AM	149,171	s58.zip
12/19/2003	11:42 PM	404,480	s58_1.xls
12/19/2003	11:42 PM	207,360	s58_2.xls
12/19/2003	11:42 PM	17,408	s66_1.xls
12/19/2003	11:42 PM	16,896	s66_2.xls
12/19/2003	11:42 PM	13,824	s66_3.xls
9/3/2007	6:20 PM	30,418	Sales effectiveness.xlsx
9/9/2007	1:52 AM	15,474	Sales order1.xlsx
9/9/2007	2:20 AM	164,904	Sales proposal.pptx
9/9/2007	2:17 AM	54,168	Sales Training.pptx
9/9/2007	9:58 PM	54,185	Sales Training2.pptx

9/9/2007	10:02 PM	48,145	Sales Training3.pptx
1/24/2008	10:26 AM	109	Search
1/24/2008	12:21 PM	0	SearchCorpus.txt
9/9/2007	2:12 AM	68,502	Selling a Product or Service.pptx
12/19/2003	11:42 PM	18,944	ServiceLevelReorder.xls
9/9/2007	1:46 AM	12,139	Software Inventory1.xlsx
9/9/2007	9:55 PM	68,590	Staff Training.pptx
7/28/2003	7:56 AM	150,016	Staff.xls
7/28/2003	7:56 AM	142,336	Staff2.xls
9/3/2007	5:31 PM	139,054	Status charts10.pptx
11/6/2005	7:15 PM	1,744,412	Stone path.JPG
9/11/2007	12:15 AM	1,741,369	Stone path.zip
11/6/2005	7:15 PM	1,752,998	Stone staircase.JPG
9/11/2007	12:18 AM	837,626	Supply Requisition Form2.xlsx
9/11/2007	12:18 AM	838,128	Supply Requisition Form3.xlsx
9/11/2007	12:19 AM	837,886	Supply Requisition Form4.xlsx
9/11/2007	12:20 AM	837,884	Supply Requisition Form5.xlsx
1/24/2008	10:20 AM	1,463,296	Test methodology.doc
1/16/2000	5:48 PM	3,941,355	test.mp3
9/9/2007	9:56 PM	90,037	Title of Training Presentation.pptx
9/9/2007	10:01 PM	58,226	Title of Training Presentation2.pptx
9/9/2007	12:29 AM	281,104	TomSawyer.docx
9/9/2007	12:27 AM	124,045	TomSawyerAbroad.docx
9/9/2007	10:03 PM	172,469	Training Presentation.pptx
12/19/2003	11:42 PM	18,944	transport.xls
12/19/2003	11:42 PM	16,384	transporttemp.xls
9/9/2007	1:14 AM	25,007	Treasury analysis worksheet1.xlsx
7/28/2003	7:56 AM	27,136	TreeOrders.xls
9/9/2007	12:24 AM	504,476	TwoCities.docx
12/19/2003	11:42 PM	177,664	valentine.xls
12/19/2003	11:43 PM	13,824	valentinetemp.xls
9/9/2007	1:58 AM	357,867	Welcome!.pptx
9/9/2007	2:21 AM	121,946	Welcome!2.pptx
9/9/2007	10:56 AM	174,213	Widescreen Presentation.pptx
9/3/2007	6:13 PM	38,404	worker hours10.xlsx

ABOUT PRINCIPLED TECHNOLOGIES



Principled Technologies, Inc. 1007 Slater Road, Suite 300 Durham, NC, 27703 www.principledtechnologies.com We provide industry-leading technology assessment and fact-based marketing services. We bring to every assignment extensive experience with and expertise in all aspects of technology testing and analysis, from researching new technologies, to developing new methodologies, to testing with existing and new tools.

When the assessment is complete, we know how to present the results to a broad range of target audiences. We provide our clients with the materials they need, from market-focused data to use in their own collateral to custom sales

aids, such as test reports, performance assessments, and white papers. Every document reflects the results of our trusted independent analysis.

We provide customized services that focus on our clients' individual requirements. Whether the technology involves hardware, software, Web sites, or services, we offer the experience, expertise, and tools to help our clients assess how it will fare against its competition, its performance, its market readiness, and its quality and reliability.

Our founders, Mark L. Van Name and Bill Catchings, have worked together in technology assessment for over 20 years. As journalists, they published over a thousand articles on a wide array of technology subjects. They created and led the Ziff-Davis Benchmark Operation, which developed such industry-standard benchmarks as Ziff Davis Media's Winstone and WebBench. They founded and led eTesting Labs, and after the acquisition of that company by Lionbridge Technologies were the head and CTO of VeriTest.

Principled Technologies is a registered trademark of Principled Technologies, Inc. All other product names are the trademarks of their respective owners.

Disclaimer of Warranties; Limitation of Liability:

PRINCIPLED TECHNOLOGIES, INC. HAS MADE REASONABLE EFFORTS TO ENSURE THE ACCURACY AND VALIDITY OF ITS TESTING, HOWEVER, PRINCIPLED TECHNOLOGIES, INC. SPECIFICALLY DISCLAIMS ANY WARRANTY, EXPRESSED OR IMPLIED, RELATING TO THE TEST RESULTS AND ANALYSIS, THEIR ACCURACY, COMPLETENESS OR QUALITY, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE. ALL PERSONS OR ENTITIES RELYING ON THE RESULTS OF ANY TESTING DO SO AT THEIR OWN RISK, AND AGREE THAT PRINCIPLED TECHNOLOGIES, INC., ITS EMPLOYEES AND ITS SUBCONTRACTORS SHALL HAVE NO LIABILITY WHATSOEVER FROM ANY CLAIM OF LOSS OR DAMAGE ON ACCOUNT OF ANY ALLEGED ERROR OR DEFECT IN ANY TESTING PROCEDURE OR RESULT.

IN NO EVENT SHALL PRINCIPLED TECHNOLOGIES, INC. BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH ITS TESTING, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL PRINCIPLED TECHNOLOGIES, INC.'S LIABILITY, INCLUDING FOR DIRECT DAMAGES, EXCEED THE AMOUNTS PAID IN CONNECTION WITH PRINCIPLED TECHNOLOGIES, INC.'S TESTING. CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES ARE AS SET FORTH HEREIN.