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It was not a dark and stormy night...

The power went out with a **BANG!**



But you said it wasn't dark?

Okay, the power went out with a BANG!



A "fuse" exploded

What Happened to the Computers?

- Our desktop computers were plugged into two different UPSs
- Both computers ran normally on battery power after the power failed
- The computers were shut down manually
- Both computers *failed* to boot-up
- The computers still under warranty
- The computers were (unofficially) dead

My wife, Ann, was not amused!



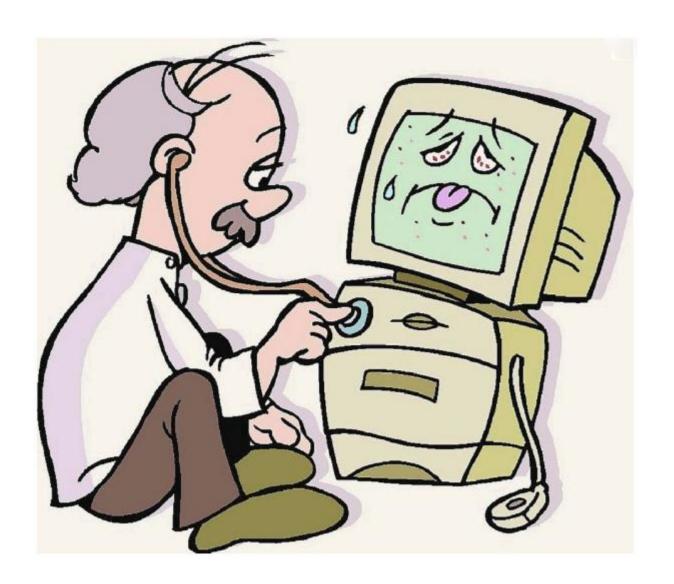
Other Devices

- Other devices plugged into the UPSs were unharmed:
 - Verizon Router
 - U.S. Robotics gigabit switch
 - HP MediaSmart home server (*maybe* unharmed)
 - Monitors
 - Laptop

Hewlett Packard Investigates Sept 2

- Contact made with technician in India
 - Reseat memory (reboot)
 - Unplug disk drives (reboot)
 - Unplug power to motherboard (reboot)
- Second technician in India...
 - Reseat memory (reboot)
 - Unplug disk drives (reboot)
 - Unplug power to motherboard (reboot)

Computers Declared Officially Dead



Hewlett Packard Investigates Sunday, Sept 4 (cont.)

- Case escalated to "Case Manager" in Colorado
- Was advised computer not repairable; new replacement computers would be sent

Hewlett Packard Investigates Sept 6-13 (cont.)

- Difficulty in e-mail communications
- Confusion over **two** dead computers
- "Fraud" suspected causing delay

Hewlett Packard Ships Computers Sept 13-19

- First replacement computer arrives
 September 13th
- Second replacement computer arrives September 19th

Comparing Dead to Replacement Computers

Computer	Operating System	CPU	Graphics Card	Memory (GB)	Disk Capacity
HP Pavilion Ultimate d4996t [DEAD]	Win-7 (64 bit) Professional	Intel Core2 Quad Q6600 (2.40 GHz)	NVIDIA GeForce 8500 GT	4	500 GB RAID-1
HP Pavilion HPE h8xt [Replacement]	Win-7 (64 bit) Ultimate	Intel Core i7- 2600 (3.40 GHz)	NVIDIA GeForce GT 530	8	1 TB RAID-1

Comparing graphic cards is complex, see



Value of each replacement computer: \$1,700

Microsoft Office 2007 Professional upgraded to Office 2010 Professional

Data Recovery Sept 5-6

- Data recovered from Home Server to laptop*
 - Ann's data
 - Lorrin's data
- Data copied from laptop to external USB-2 disk drive
- Data now reside in four places

^{*}Excluding photos which only reside on the Home Server and two external disk drives. The Home Server is also backed up to a third external disk drive.

Recovery—Lorrin's Computer Sept 16-17

- Replacement computer "initialized"
- Microsoft Security Essentials installed
- Hooked up to the LAN
- Data restored from USB-2 drive
- Software loaded
- Numerous "bits and pieces"...

Software Installation

Office 2010	Outlook	Firefox	MS Security Essentials
Google Chrome	iTunes	Adobe Flash Player	Adobe Photoshop Elements 9
Malwarebytes	Ad-Aware	Belarc Advisor	CCleaner
APC PowerChute	RoboForm	TrueCrypt	Ditto Clipboard
Foxit PDF Viewer	Eraser	Google Earth	Gadgets

Belarc Advisor is very useful in software recovery; to download see 1

Recovery—Ann's Computer Sept 21-22

- Replacement computer "initialized"
- Microsoft Security Essentials installed
- Hooked up to the LAN
- Data restored from USB-2 drive
- Software loaded
- Numerous "bits and pieces"...

Issues with Outlook

- Outlook.pst restored and placed in C:\Users\Lorrin\AppData\Local\Microsoft\Outlook
- Other .pst files need attention (archive.pst, etc.)
- Access to e-mail servers must be established manually, not automatically
 - POP, SMTP and/or IMAP names
 - Incoming & outgoing port numbers
 - Other parameters

American Power Conversion

- September 26th ask APC about continued use of UPSs
- September 29th receive replacement UPSs from APC (and claim form)

Other Issues

- The 4-year old Home Server is being replaced
 - HP ProLiant MicroServer
 - Microsoft Windows Home Server 2011
 - Additional backup is now being done using Windows-7 software to an external USB-2 disk drive

Summary

- ~4 days to be "back in business" using the family laptop
- Hewlett Packard was very helpful and generous
- American Power Conversion (APC) was also very generous
- Data and *most* software recovery took about 2 days/machine
- Constructing the new server is a work in progress

Summary (cont.)

- ~12-17 days to get replacement computers
- ~2-3 weeks to be "back in business"
- The experience was nerve-wracking but educational
- An iPod Touch with Calendar and Contacts saved our bacon
- Recovery without the family laptop would have been much more difficult
- Without good backup, recovery would have been **impossible**

Thanks for your attention!

