



UNIVERSITY OF UTAH
STUDENT COMPUTING LABS

DiskWarrior 3.0 Overview

By

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What is DiskWarrior?

- Popular directory repair/recovery utility for Mac OS 9/X.
- Complete rebuild of the app – not a port.
- Comes on a ‘smart’ Mac OS 9/X bootable CD.



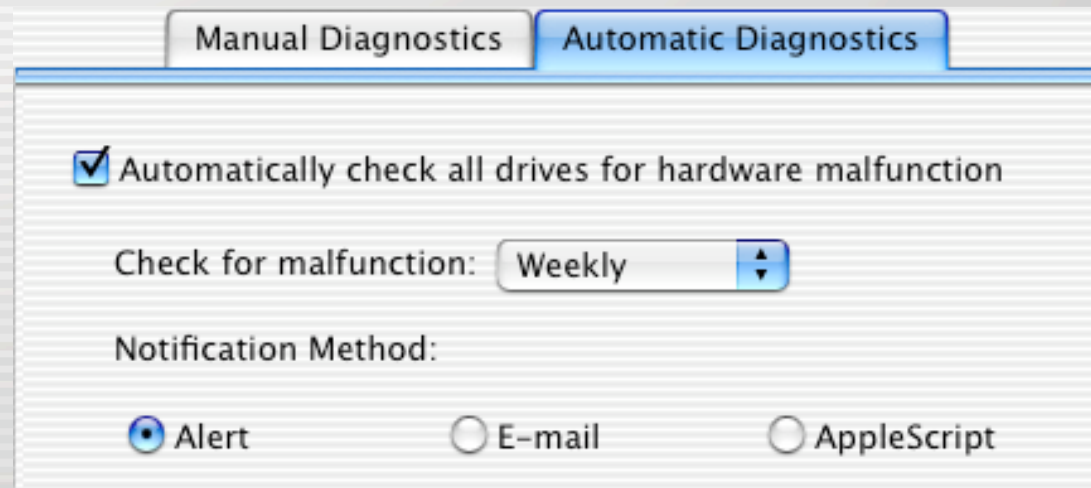
How much does it cost?

- **\$79.95 for new users.**
- **\$39.95 for upgrade from earlier version.**
- **Well worth the price...**



What's new?

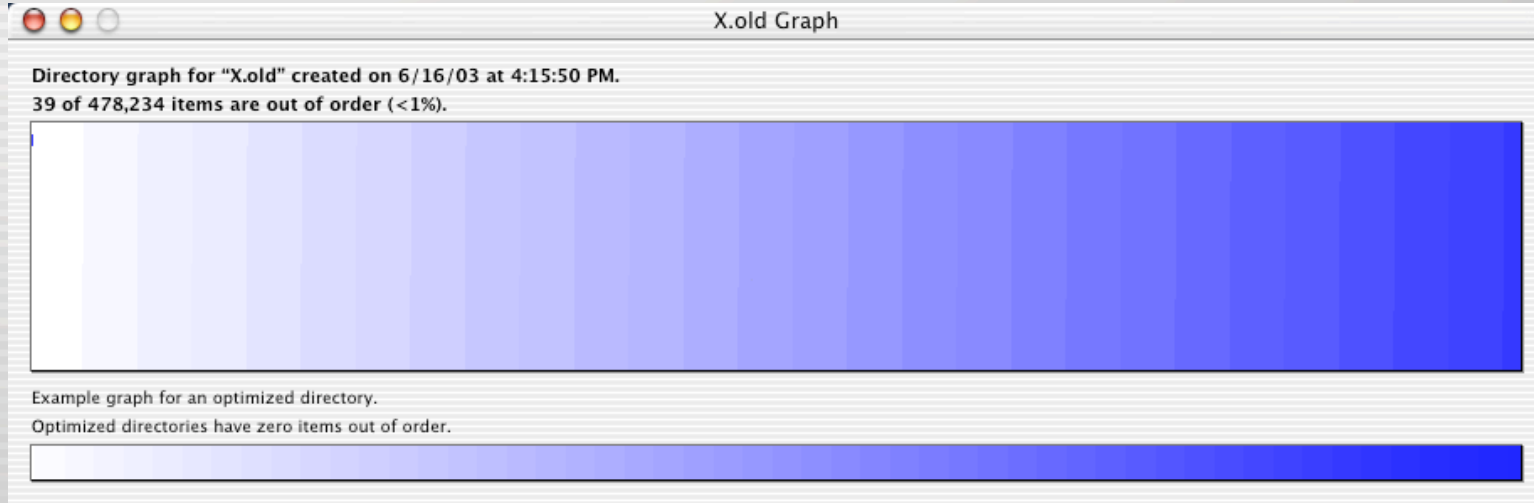
- Includes manual & automated hardware diagnostics using SMART, with nice notification options.



- No more DiskShield, may be added later.

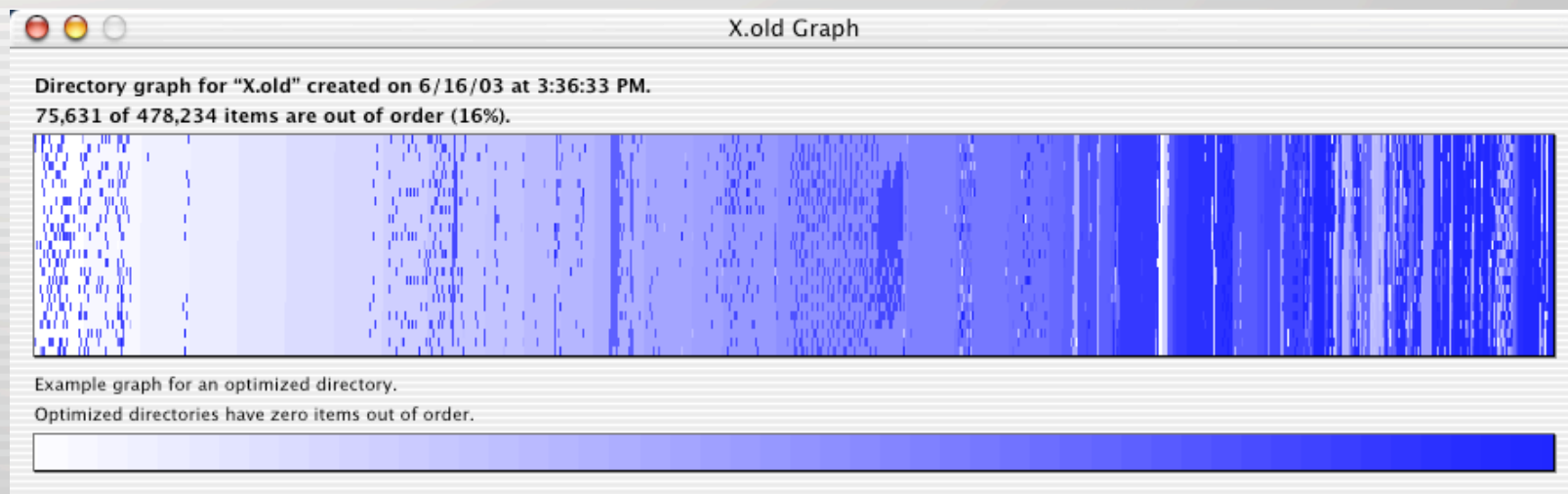
What is the Disk Directory?

- Area of disk used by the OS as a “map” of its contents.
 - Numbers, names, locations, and sizes of files.
 - The OS uses the directory when files are added, modified, or deleted.



What is Directory Damage?

- Happens when an app incorrectly updates info in the directory, or doesn't update it.
- When this bad data is accessed again, it will cause application & OS errors.

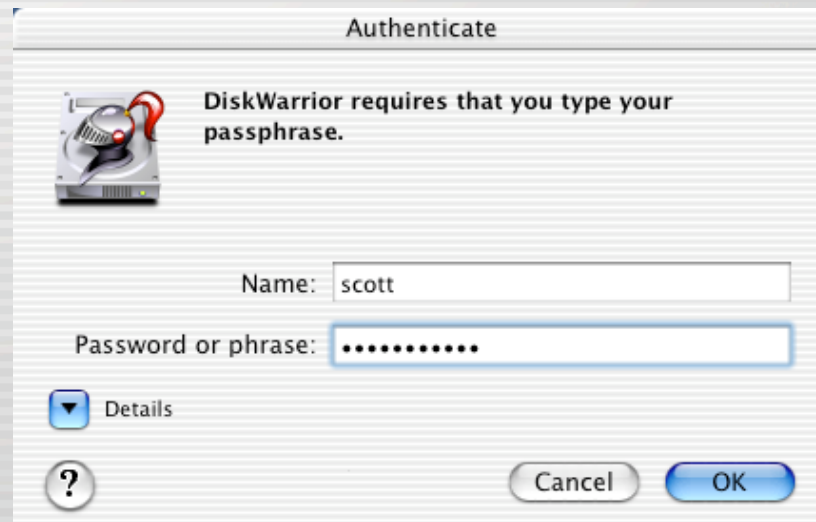


How does DiskWarrior fix it?

- Salvages everything possible from the old directory, then rebuilds it from scratch.
- Can recover files you thought were lost.
- Also fixes problems with master directory blocks, volume headers, catalog trees, etc.

Using DiskWarrior

- Requires authentication, then launches two root-owned processes
 - DiskWarriorTool
 - DiskWarriorRebuildServer



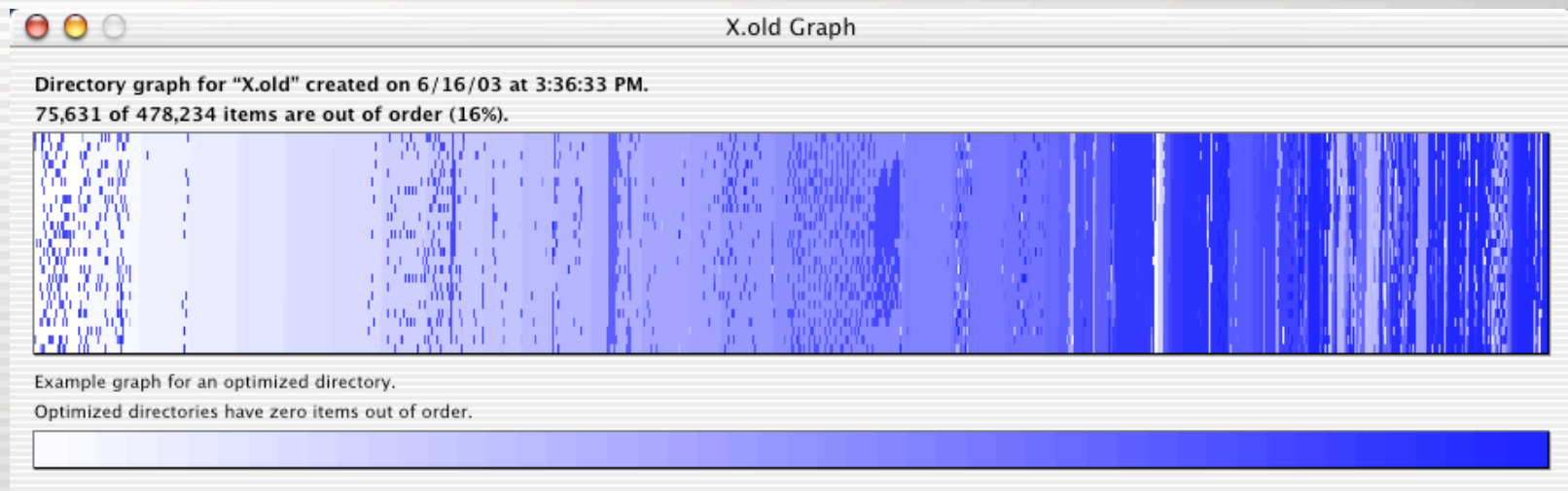
Using DiskWarrior

- Choose your disk (can't be the startup disk)



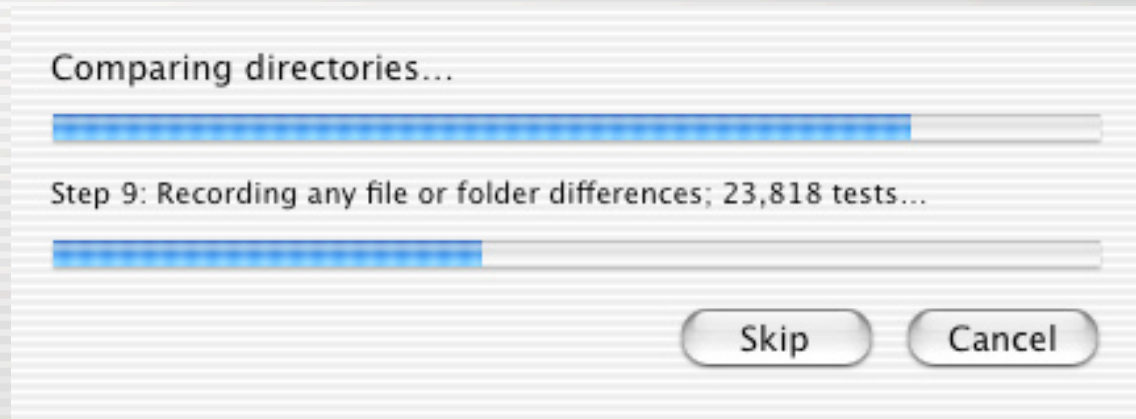
Using DiskWarrior

- Click “Graph” for an optional graphical representation of your current directory:



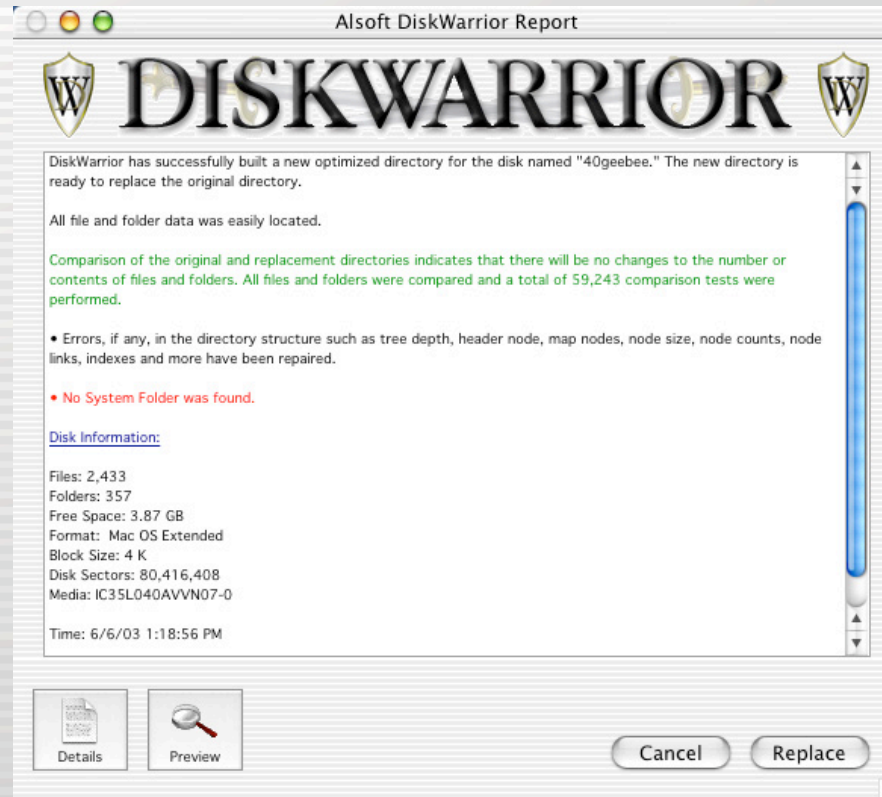
Using DiskWarrior

- Click “Rebuild” to begin the process:



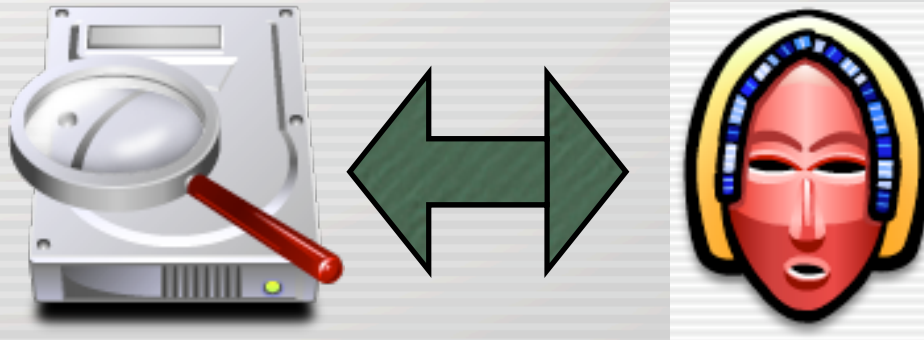
Using DiskWarrior

- Review changes made to directory:



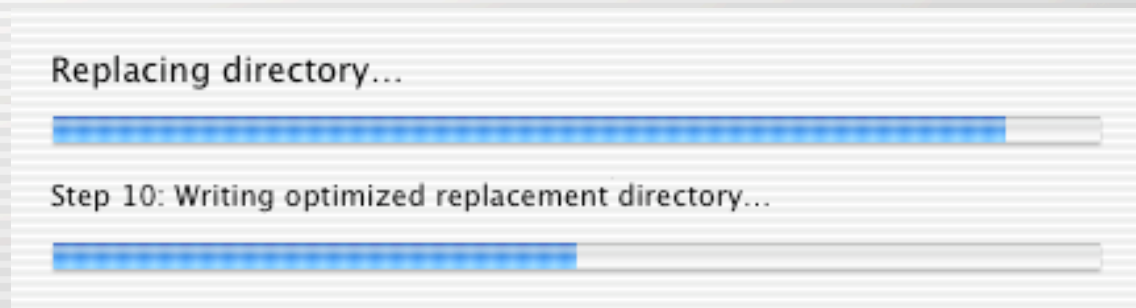
Using DiskWarrior

- Use “Preview” feature to compare the old & new directories, and copy files off (if a disk is failing or if you’re missing data):



Using DiskWarrior

- Click “Replace” and it will swap in the new directory then remount your disk:



Journaling & RAID Support

- Journaling is an optional buffering method in Mac OS X.
- DiskWarrior supports it...but how?
- Not sure how it handles disks that are part of a RAID set.
- No response from Alsoft...

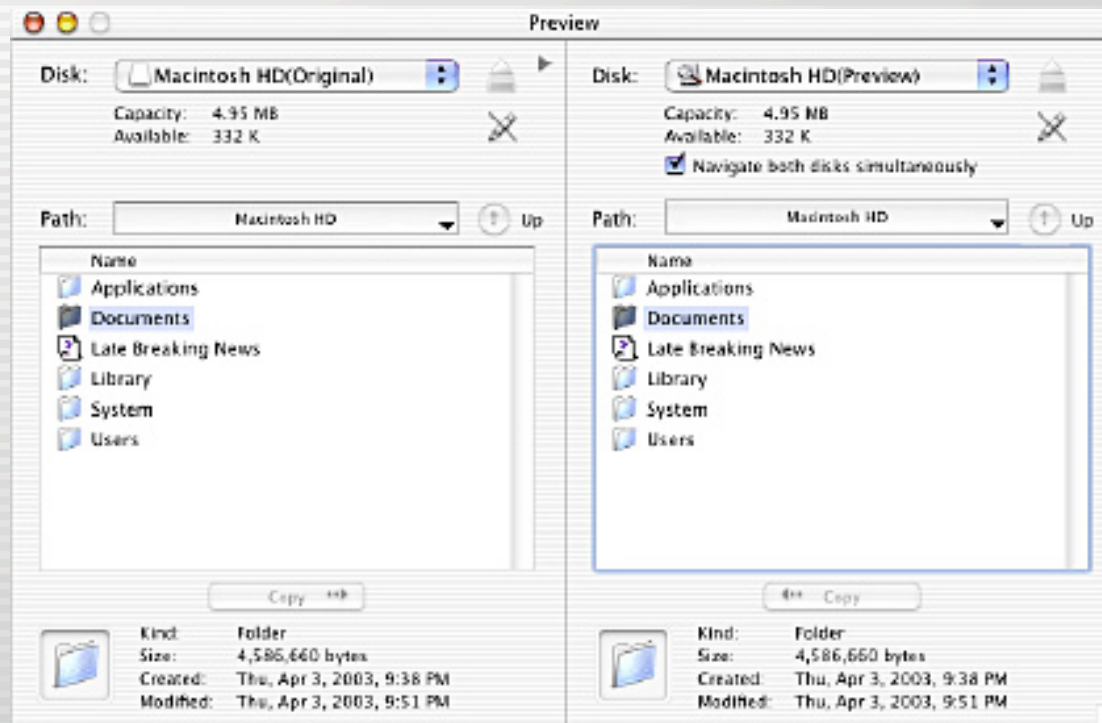
Using DiskWarrior

- If you used another disk utility first or are missing data, hold down Option and the “Rebuild” button will change to “Scavenge” which searches for missing data:



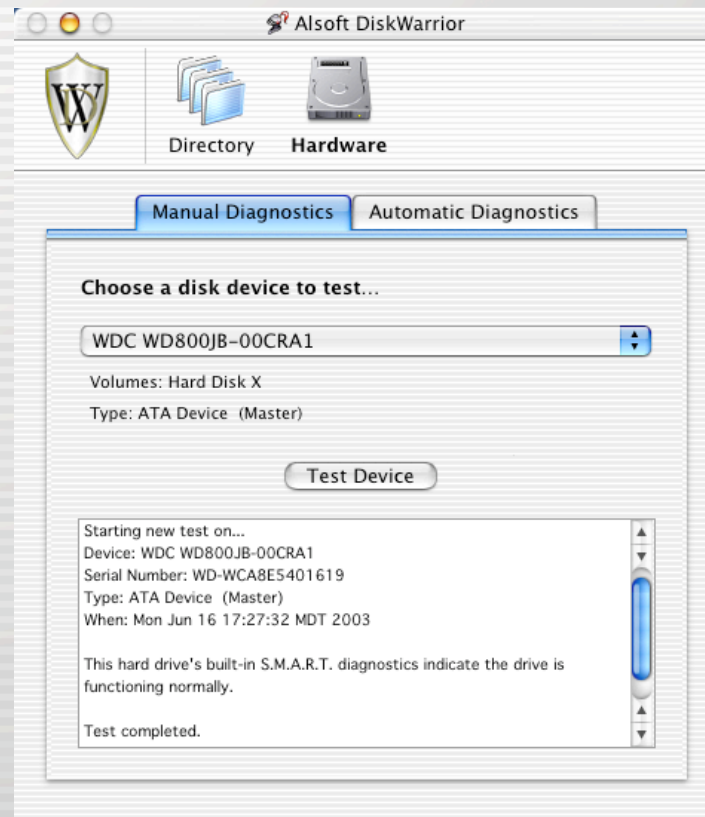
Booting from the CD

- Process is the same, but Preview feature looks different (i.e. no Finder):



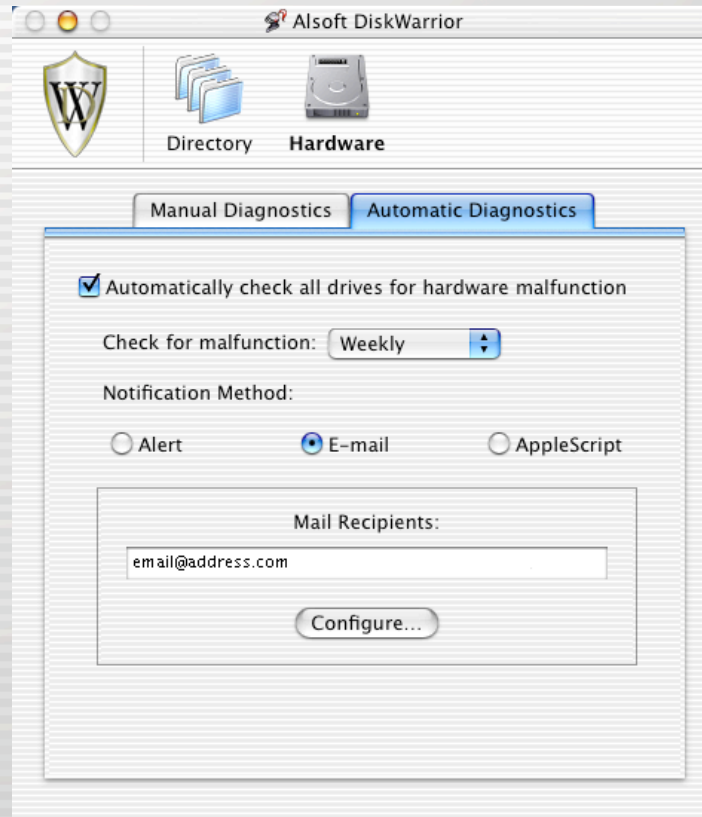
Hardware Diagnostics

- Manual Diagnostics check:



Hardware Diagnostics

- Automatic Diagnostics check:



Hardware Diagnostics

- **Automatic Diagnostics Daemon...**
 - **DiskWarriorDaemon monitors your drives at specified intervals.**

Conclusion...

- By far the most reliable & invaluable disk repair/recovery utility available for Mac.
- Beats the snot out of Norton...



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Q&A



Demo...

