Scan Engine Preferences Window

This window is for viewing and setting user preferences for the scan engine, which affect the scanning of devices and the recovery of files. The left portion of the window contains the preference category. When a category is highlighted, the properties associated with that category are shown in the right portion of the window.

Each property has a name and a current value. Highlighting the property will display some additional information. If the property value is editable, double-clicking the value will enable you to alter the value. These property values are persistent (unless Data Rescue is booted from CD); that is, they will retain their new values if you run Data Rescue again. (They are saved in the file Library/Preferences/com.prosofteng.DataRescueIIBE.plist in your home directory. If you need to restore the preferences to their default value, you can delete that file and restart Data Rescue.)

Numerical values that have a size unit string shown, such as “bytes”, “KB”, “MB”, may be entered using a size unit string. So for example, to set a value to ten kilobytes or two megabytes, you may type “10KB” or “2MB”instead of typing 10240 or 2097152, respectively. (Note: 1KB = 1024, not 1000).

Analyze

This category contains preferences for running the Analyze media function. These settings allow you to change the size of the stride when reading the media, and the amount of data read on each stride. Changes to these settings should take effect the next time Analyze is run.

Recovery

This category contains preferences that control some aspects of how Data Rescue recovers files that it found during a scan. Changing any of these settings will take affect the next recovered files.

The Add rsrc fork option will force the creation of an empty resource fork on recovered files that don’t have one. Normally you won’t need this.

The Change ownership item allows you to force the ownership of recovered files to yourself (i.e. the user who is running Data Rescue), overriding the ownership that was found during the scan.

The Copy buffer size controls the size of the buffer used for copying data. Increasing its size will use more memory, but will speed up the copying operation. This buffer is used for copying recovered files to the destination, and also for the cloning function.

The Make items visible control allows you to force files with the Macintosh invisibility property to be visible. It also forces the renaming of files and folders whose names begin with a period to remove the period in order to make them visible. As an example, the folder name “.Trashes”, which would normally not be displayed in Finder. This option

would rename that folder to “Trashes” upon recovery, which then would be visible in Finder.

The Permissions promotion control allows you to force a more lenient permission on recovered files and folders. Use this if your recovered files are visible, but have inadequate or no permissions.

Scanning

This category controls some options during scanning.

The Maximum files/folder property specifies the maximum number of files that Data Rescue will create in a folder before starting a new folder. This applies only to files and folders that Data Rescue creates itself, such as the ones under the CBR folder and some of the Orphans folders.

HFS

This category controls some options during scanning.

The Enabled property may be used to disable the recognition of HFS and HFS+ structures. This flag should be left ON (checked) except in very special circumstances. If it is turned off, no catalog based files will be found in Thorough scan, and Quick scan will be completely disabled. You may wish to turn this off if you are scanning a drive which has some filesystem which Data Rescue does not currently support, such as from a Unix or Windows machine, and you wish to recover only via the Content (CBR) algorithms. If you do turn it off, remember to turn it back on, or you may be confused the next time you use Data Rescue and it doesn’t find your catalog files!

File Modules

This category includes options for recovering files with the content based algorithms (the ones that will appear under the CBR folder). Every file type that Data Rescue supports with the CBR algorithms has an entry under here, which controls a corresponding File Module (FM) which is responsible for recovering that file type. Because there are a number of these types, and they share many properties, they are organized into a hierarchical tree. Clicking on the disclosure triangle will cause the items below to be revealed.

Some properties, such as Enabled and Maximum file size, are used by most of the File Modules, and for many of these, it makes sense to use the same values for some of the properties. So as a convenience to the user, these may be specified at a higher node in the tree, in which case the value specified there applies to all the FMs underneath that node. For example, normally the user will want most of the FMs to be enabled, so the Enabled property is specified at the top node (named “File Modules”). FMs under this automatically take the same Enabled value as the node above them, so all of the Audio, Document, Movie, etc. FMs will be enabled if the top-level Enabled is set. If it is desired to disable the Movie FMs, the user may specify an OFF value for that File Modules/Movie node. Then all the Movie FMs such as Quicktime and MPEG under there will be disabled.

Properties that are specified at a node have their names shown in black. Properties that are not currently specified at a node, but could be, have their names shown in green. Properties that cannot be specified at a node are shown in gray.

If you have previously specified a value for a property, and later want to remove the value and let a higher level node prevail, you may remove the value by unchecking the box that says “Specify value here”.

Some properties only make sense for certain groups of FMs, and are not defined for other groups. So for example, the Image and Movie FMs have a Minimum image dimension property, which defines the smallest width or height image that will be found. But that property doesn’t make sense for Documents and Audio FMs, so it is not defined for those.