CalculateSizeCM 1.3

What is CalculateSizeCM ?

CalculateSizeCM is a contextual menu plugin for Mac OS X. It let you calculate the total size of selected files/folders at the Finder. It's specially usuful if you want to know the total size of mutilple files and folders (for example, to see if they fit in a CD-R media or not). This is the OS X port of my Calculate Size CMM plugin.

Features

• It can calculate the total size of selected folders and files easily.
• It displays the progress information while calculating and let you cancel the operation anytime.
• It displays more detail information like number of files, invisible files, folders, fork sizes...
• If a single or a single volume is selected at the Finder, it shows the file/volume size information directly to the context menu. So it's much easier and quicker than Finder's Get Info dialog.

Difference from the Finder's Get Info dialog

As you know, Mac OS X Finder's Get Info can calculate the total size of multiple items, but it does not show detail information. For example, if you select two folders and do the Get Info, you will know the total size but not number of files and folders inside of those two folders. Finder's get info just shows number of directly selected items and total size, no other information like fork sizes, number of files/folders invisible items inside.

Also, when you select a folder with tons of files and sub folders in it, Finder's Get Info just shows 'Calculating Size' until it finish calculation, while CalculateSizeCM shows progressive display so you can see the size so far even if you cancel the operation in the middle. This may be helpfiul when you want to see if a folder is smaller than 700MB before writing to CD-R because once you see it goes over 700MB, you can cancel the operation easily and do not have to wait for the end of calculation, which you can not do with Finder's Get Info dialog.
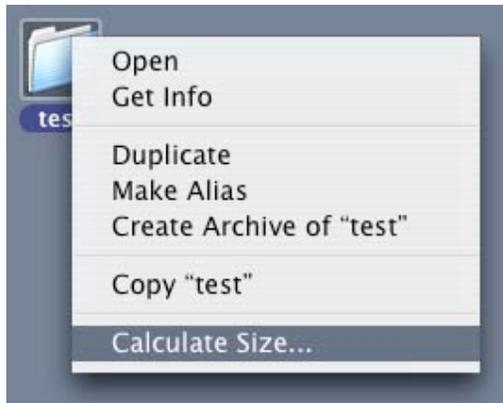
Installation

For your convenicence, simple AppleScript to install the CalculateSizeCM is enclosed. Just run the 'InstallCalculateSizeCM' script to install and follow the direction on the screen.
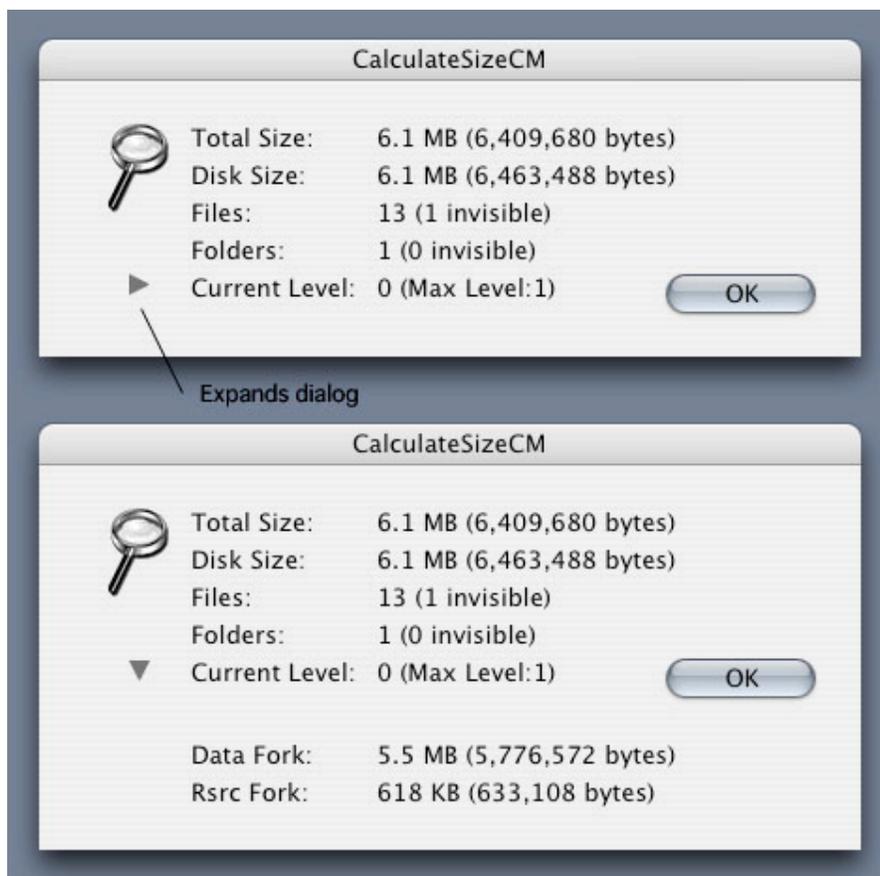
You can manually install the CalculateSizeCM by copying 'CalculateSizeCM.plugin' package to either '/Library/Contextual Menu Items' folder or '~/Library/Contextual Menu Items' folder. If you don't have '~/Library/Contextual Menu Items' folder, simply create a new folder and copy it there. In this case, you need to either restart computer, or logout and login again, or restart the Finder to use the CalculateSizeCM.

How to use ?

Choose file(s)/folder(s)/volume(s) at the Finder and Control+Click the mouse to bring up the contextual menu. You will see 'Calculate Size...' contextual menu item.

Then if you select the 'Calculate Size...' menu item, following dialog would appear on the screen and start calculating size,

Total Size	Total logical size of the selected items
Disk Size	This is the total block size that selected items occupies in the current volume. Disk size may differ even for the same files depending the node size of the disk
File Size	Total number of files including invisible files and the number of invisible files (Note: invisible file and dot file may not be necessary to be the same)
Folder Size	Total number of folders including invisible folders and the number of invisible folders (Note: packages are counted as folders since they are actually folders)

Current Level   Current searching directory tree level and the max (deepest level).
                     It starting from 0 and the number increase as it goes to deeper level.

Data Fork   Total logical size of the data fork of the selected items

Rsrc Fork   Total logical size of the resource fork of the selected items

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Canceling the operation

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If you want to cancel the calculation in the middle, just click the 'Cancel' button, or press 'ESC' key or press 'Control+Period' key from the keyboard.

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Expand mode

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By clicking on the triangle arrow on the dialog anytime (during the calculation, or after the calculation is completed), you can use the expand mode of CalculateSizeCM. The dialog is expanded and displays the addtional information, breakdown of the total size by data fork and resource fork.

It would be useful for calculating size of all the GIF and JPEG files without thumbnail icons and other resources before uploading them to your WWW server.

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Tips to increase the calculation speed

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You can increase the calculation speed by setting the progress information display mode to OFF.
Since CalculationSizeCM show the progress of calculation, it slows down the calculation time. If you calculate volume or folder with huge number of files/sub folders, it's recommended that you click the magnifier glass icon and change to the fast more. Under the fast mode, the progress display is not displayed. You can click the magnifier icon to switch fast mode and progress (slow) mode back and forth.
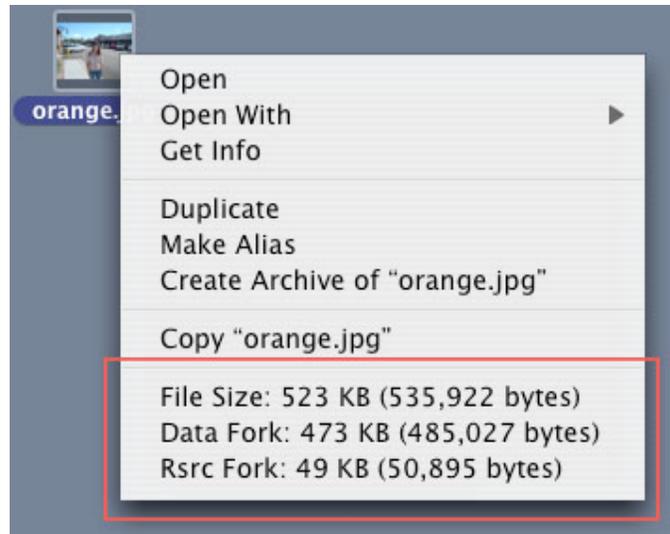
In addition, using expand mode during the calculation also slows downs the performance. I recommend that you do not expand until the calculation is done.

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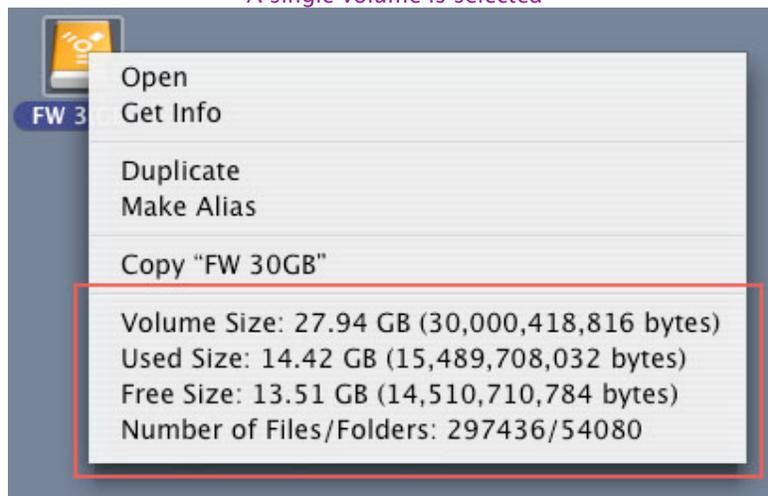
How to use (2) Special Case

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If you select a single file or a single volume from the Finder, then the size information of the file or volume is shown directly on the context menu and let you see the size information without opening/closing dialog above. The information on the context menu differs between file and volume. In case of a single file, the total file size (logical size) and the data/resource fork sizes are displayed, while total volume size (capacity), used and free (available) size, and number of files/folders are displayed in case of a single volume.
In these special case, you can still use the regular calculation with dialog by selecting any menu items.

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– A single file is selected –

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NOTE

To make the calculation time as quick as possible, you can not move the dialog during the calculation. You can move the dialog once the calculation is completed or canceled.

Aliases are not resolved for the calculation in order to avoid the endless loop (deadlock) caused by looped aliases. Thereofre, alias is calculated as a small file (usually less than 1KB).

Unlike my Calculate Size CMM plugin for Classic Mac OS, this CM plugin is not really fast (kinda slow) even if you use the fast mode. This is because of the Mac OS X's real multitasking mechanism. Under Mac OS X, Finder is just one of many other apps and can not use most of the processor time, and that's why the CalculateSizeCM does the job slow. However, the good thing is that you can switch to other application and keep working on it while CalculateSizeCM is running under the Finder. So I think it's pros and cons ;-)

Version history

1.3   (12/13/2004)
- Now the size over GB is displayed as (x.xx GB) instead of using big MB number.
- Fixed a bug of displaying more than 11 digits of byte size, which occurs for items more than 100GB.
- Now all size display starts with KB, MB, GB size and followed by length byte size in parentheses

• If a single file or a single volume is selected from the Finder, size information are directly displayed to the context menu instead of 'Calculate Size...' menu command. This makes it much easier to check the size of a single file/volume than using Finder's Get Info dialog.
      • Changed the icon of the plugin.

1.2   (5/25/2003)
      • Fixed a bug that miscalculate files bigger than 2GB
      • Fixed some minor bugs and deleted debug console message
      • Added current level and max level display
      • Changed the icon of the plugin.

1.1   never released to public

1.0   (4/6/2003)
      • First release – this is my first Mac OS X program :-) so I know it needs some improvements.

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Abracode Inc <www.abracode.com> and Contextual Menu Workshop
– nice framework for OS X cmm plugin development.