!Split

Version 2.12

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1   INTRODUCTION

!Split was written to ease the transportation of large files from one computer to another. No attempt to compress the file is made, as it is assumed this has already been done. **!Split** will split a file into a number of smaller files, and will join them again when required.

2   How To Use !Split

!Split can be started either by running the application directly or via a double click on a split file (see section 2.3, 'Joining Files' on page 3).

2.1   The iconbar menu

Pressing the menu button on the iconbar icon will display a menu.

Info	This displays information about the program.
Autoload	When joining files, if this option is selected, !Split will automatically attempt to locate the next part to join.
Faster	If selected, the multi-tasking window will not be updated with bytes read and written, making the operation faster. A tick will be displayed when this option is selected.
Single Task	This option will toggle between single and multi tasking. A tick will be displayed when this option is selected.
Quit	This will quit the program.

The default action of **_Autoload_**, **_Faster_**, and **_Single Task_** may be changed (see section 3, 'Customizing' on page 4).

2.2   Splitting files

The split window can be displayed either by clicking on the iconbar icon with select, or by dragging a file to the iconbar icon (not of filetype 'Split'). Figure 1 shows an example of the split window. Please note, you may open and close filer windows, or change floppy disks between saving.
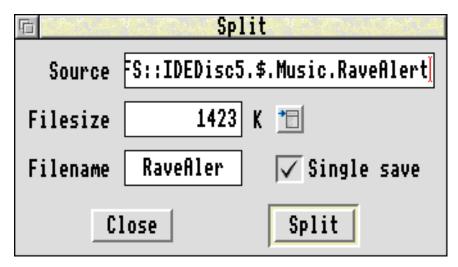
Figure 1 : Split window

2.2.1   Source

Enter the filename for the file you want to split, or simply drag the file to the split window. If you drag, the **Filename** field will automatically get filled in, although you can still change it if you wish.

2.2.2   Filename

This is the 'base' filename to be used for each part the file is split into. Using the example above, the base name is RaveAler so the parts will be named RaveAler01, RaveAler02, ... etc.

2.2.3   Filesize

This is the maximum size in K (1024 bytes), that you want each part to be saved as. You may either type the size into the text icon, or press the select or menu mouse buttons on the menu icon opposite. You may then choose from one of the sizes in the menu. The default size and the contents of the menu can be customized (see section 3, 'Customizing' on page 4).

2.2.4   Single save

If this option is set, **!Split** will automatically save all parts to the same directory, only one drag is needed. This option may also be switched on or off during saving. The default setting for this option may be customized (see section 3, 'Customizing' on page 4).

2.2.5   Close

Pressing this button will close the split window. If splitting has started, closing the split window will not affect this process.

2.2.6   Split

Pressing **Split** will open the 'save as' window, shown in figure 2 below, (if all the parameters have been set correctly) prompting you to drag the icon to a directory window. If the **Single Task** option has not been selected from the iconbar menu, then a transfer window will be displayed and the splitting process will begin (see section 2.4, 'The transfer window' on page 4). If you only want to save certain parts, then use the **Skip** button to miss out the current part.

Figure 2 : Save as window

2.3   Joining files

The join window can be opened either by clicking on the iconbar icon with adjust, double clicking on, or dragging to the iconbar icon, a file of type 'Split'. If you opened the window with the adjust mouse button, you must double click or drag the first file to the join window. If you maximize the join window you will see some short hints to help you along. Figure 3 shows an example of the join window.
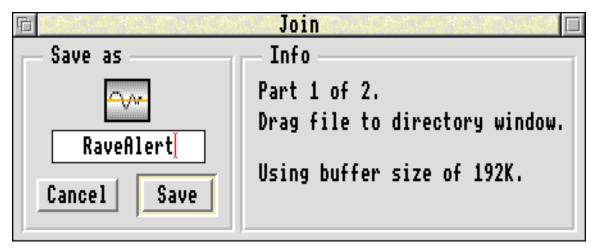
Figure 3 : Join window

Once **!Split** has the first part of the file to join, you need to tell it where to save the joined file. To do this, simply drag the file icon to the directory where you want it saved, or type the path into the text icon and press **Save**. Pressing **Save** without a full path in the text

icon will save the file in the current directory.

If the Autoload option is on, **!Split** will automatically look for the next part to join. If it is found, joining will continue, otherwise joining will be suspended and you will need to either double click on the next part (filetyped as 'Split'), or drag it to the join window or the iconbar icon.

If single tasking is not enabled, the transfer window will be displayed (see section 2.4, 'The Transfer Window' on page 4).

If **Cancel** is pressed, joining is aborted and the window closes.

2.4   The transfer window

The transfer window is displayed when splitting or joining has started and multi-tasking is enabled. Figure 4 shows an example of the transfer window.

Figure 4 : Transfer window

The transfer window shows what the program is doing and on what file, it also shows the number of bytes read and written. The function of the buttons are outlined below:-

Abort   This will abort the operation, and close the window.

Faster/Slower   This will disable/enable the display of information in the window, resulting in slightly faster operation. This lasts for the duration of the current file operation.

S-Task   This will put the program into single task mode for the duration of this file operation only.

Pause/Continue   This will pause/resume the transfer operation.

Please note, once in single task mode, control is removed from the transfer window.

3   Customizing

!Split may be customized in several ways.

3.1   Changing the buffer size

The buffer size used to temporarily store data can be changed (this will slightly affect the speed of the program). To do this, open the application directory by holding down the **Shift** key and double clicking on the **!Split** icon. Once inside, load the **!Run** file into your favourite text editor.

To change the maximum buffer size, increase the value of the **-max** option on the **WimpSlot** command. For example:-

```
WimpSlot -min 96k -max 640k
```

Please do not change the **-min** size.

3.2   Iconbar menu

The default status of the **_Autoload_**, **_Faster_**, and the **_Single Task_** options in the iconbar menu may be set. To do this, load the **!Run** file into a text editor (as above), then add or remove the following commands in the line beginning with:-

```
Run <Split$Dir>.!RunImage
```

-autoload   This will default the **_Autoload_** option to on.

-faster   This will default the **_Faster_** option to on.

-singletask   This will default the **_Single Task_** option to on.

For example, if you want **!Split** to start up with only the **_Faster_** option selected, you would have the following line:-

```
Run <Split$Dir>.!RunImage -faster %*0
```

Please note, as the **_Faster_** and **_Single Task_** options cannot be on at the same time, **-singletask** would take precedence.

3.3   Single save

The default status of the **_Single save_** button in the split window may be set. Edit the **!Run** file as above and add or remove **-singlesave**. For example, to have single save on, your `Run` command may now look like this:-

```
Run <Split$Dir>.!RunImage -faster -singlesave %*0
```

3.4   Filesize

To set the default filesize, edit the **!Run** file as above and add the following option to the `Run` command:-

-filesize n   Where n is the filesize in K (1024 bytes).

For example, your `Run` command may now look like this:-

```
Run <Split$Dir>.!RunImage -faster -singlesave -filesize 713 %*0
```

The size is now suitable for saving to double density DOS formatted floppy disks.

3.5   Filesize menu

The filesize menu may also be customized. To do this, open the **Resources** directory, and load the **SizeMenu** file into your text editor. The file is made up of two columns, the first is file size in Kbytes, the second (which is optional) is the text which will appear in the filesize menu. If only the file size number is used, then that number will appear in the menu.

The next time you start !Split, it should read in your new menu.

4   Acknowledgments

I would like to thank Andrew Sellors for his suggestions and help in testing this application.

Thanks to Sergio Monesi for his suggestion on speeding up file operations (version 2.12).

APPENDIX A   History

Versions 1.xx are command line versions, which are supported along side the desktop versions (2.00 and greater).

- Version 1.00 - 1.08   These were the original command line versions, compiled on several different computers.

- Version 1.10   This version had a new file format, a header is put at the beginning of each part, and is used to join files in the correct order. This version is compatible with the desktop version (2.00 and greater).

- Version 1.11   Slightly increased memory allocation for filenames, and added a small check needed for DEC Ultrix compilers.

- Version 1.12   Added -interactive option, to allow direct reading/writing of floppy disks. This option enables different paths to be given for each part, removing the need, for example, to load all the parts onto the hard disk before joining.

- Version 1.12c   Supports official Acorn filetype.

- Version 1.13   Modified the Acorn specific bits to speed up file access. Also tidied and commented the code a lot more. **NOTE**: The only executables changed from version 1.12 are the Acorn ones, therefore I have only compiled this version for these machines.

- Version 2.00   First desktop version.

- Version 2.01   Added ability to open the join window with the Adjust mouse button, and to drag files to the window. This made it easier to start the joining procedure if the parts aren't filetyped as 'Split'. Fixed bug with ArcFS image file system - doesn't complain about archives any more.

- Version 2.02   Added filesize menu, fixed a few small bugs.

- Version 2.10   Big jump from 2.02 to 2.10 because I decided to completely re-write the program from scratch without the use of RISC_OSLib functions. This has made the program easier to write, control, modify, and has made the code smaller and it also runs faster.

- Version 2.11   Added multi-tasking option. Fixed a few small bugs.

- Version 2.11c   Fixed menu item height. As of this version, **!Split** uses an official Acorn filetype.

- Version 2.12   Speeded up file operations. Increased the amount of data transferred each WIMP Poll. More meaningful text in the size menu. Added ability to skip parts when splitting. New option to autoload join parts.

APPENDIX B   Files Supplied

The following files are supplied inside the **!Split** application directory.

!Boot	
!Help	Text version of this file.
HelpPS	This file.
!Run	
!RunImage	Main program.
!Sprites, **!Sprites22**	
Resources (directory)	Contains...
SizeMenu	Definition of the filesize menu (see section 3, 'Customizing' on page 4).
Toggle3D	Toggles the state of the 3D bit in CMOS RAM.
ToggleDRAG	Toggles the state of the solid dragging bit in CMOS RAM.
Template2D	2D window templates.
Template3D	3D window templates, RiscOS 3 or greater.

The program will automatically select the correct templates file to use.

Look out for the support archive which contains source code and executables for the command line versions.