



The Unix Single Utility

The Unix “single” utility decodes Macintosh file enclosures that are not plain text files. The utility is provided as C language source code to be compiled on Unix systems.

Installing the single utility

If the gateway Macintosh supports a TCP/IP application (such as NCSA Telnet), you can use FTP to upload these files to a Unix host. Otherwise, after you have installed the daemon, you can mail them to the Unix host as files enclosed in an outbound mail message.

To send these files as a mail enclosure, follow these steps:

- 1 Insert the diskette in the Macintosh drive.
- 2 Copy the contents of the Sources folder on the diskette into the Clipboard.
- 3 Send a mail message addressed to your user ID on the Unix system, and paste the contents of the Clipboard into the body of the message.
- 4 Log in to the Unix system and retrieve the mail message, saving it as a file. Then, edit the file to strip out the mail header information.
- 5 Compile the `single.c` source file using a standard Unix C compiler.

Using the single utility

The single utility converts the information in a file into AppleSingle or AppleDouble format, depending on the format of the original file. The output of the single command is placed in a file named `single.out` unless you override this default by using the `-o` option. The input file is not modified.

To use the single command, type:

```
single filename
```

where *filename* is a Macintosh file.

If *filename* is in AppleSingle format (where the resource and data forks are combined in a single file), the output will be in AppleDouble format unless the `-s` option is used (see below).

If *filename* is in AppleDouble format (where the resource and data forks are maintained separately), the output will be an AppleSingle file. Either the resource fork filename or the datafork file name can be specified as the file name.

If *filename* is in PACKIT 1 format (where multiple files are compacted into a single file), the output is unpacked into multiple AppleSingle files, where the file names are the real names of the unpacked files.

The syntax for using the single utility is:

```
single[-o output][-c creator][-t type][-s]filename
```

where *filename* is the name of the file(s) to be processed by the `single` utility. The command-line options are described below:

Table 19

- | | |
|--------------------------------|---|
| <code>-o</code> <i>output</i> | Lets you specify the name of an output file. If this option is not used, the default output file name is <code>single.out</code> . If the input filename is in PACKIT 1 format, this option is ignored. |
| <code>-c</code> <i>creator</i> | Lets you specify Macintosh Finder “creator” information. The creator is a four-character, case-sensitive name. If this option is not used, the creator defaults to “UNKN.” If the file is already in AppleSingle, AppleDouble, or PACKIT 1 format, this option is ignored. |
| <code>-t</code> <i>type</i> | Lets you specify Macintosh Finder “type” information. The type is a four-character, case-sensitive name. If this option is not used, the type defaults to TEXT. If the file is already in AppleSingle, AppleDouble, or PACKIT 1 format, this option is ignored. |
| <code>-s</code> | This option is intended for use with AppleSingle input files. It directs the <code>single</code> utility to split the output file into three files. The files are names <i>output</i> for the data fork, <i>%output</i> for resource information, and <i>%houtput</i> for resource header information. If the file is in AppleDouble format, the <code>-s</code> option does not apply. |



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