StuffIt Utilities

for use with
StuffIt
The Macintosh archive utility

for the Apple® Macintosh™

Written by Raymond Lau.

Viewer DA and UnStuffIt DA are © 1988 by Raymond Lau.

Written in LightspeedC™, thus
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This User's Guide is also written by Raymond Lau and is also © 1988 by Raymond Lau.

Distribution and usage are restricted. See Distribution/Usage in chapter 1.

This document was set in Times® with MacWrite®.

1. **Preface/Introduction**

What is the StuffIt Utilities package?

The StuffIt Utilities package is a group of utilities suggested by StuffIt users. Currently, it includes only two DA's: Viewer and UnStuffIt. Other utilities are being worked on and will be added to this package when completed.

About the author:

StuffIt Utilities and its accompanying documentation were written by Raymond Lau. The author is devoted to continuously improving and updating StuffIt and its utilities, and he welcomes your suggestions, criticisms and other input. He may be reached at:

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Distribution/Usage:

All StuffIt utilities are copyrighted by Raymond Lau. This package is being offered for distribution under the shareware philosophy. If you find any or all of the utilities useful, you should become a registered user. If you are a registered StuffIt user, the shareware fee is $15. If you are not a registered user of StuffIt, the shareware fee is $18. When registering with the author, please state that you're registering for StuffIt Utilities. Your registration will be extended to other programs in this package as soon as they become available.

Please remember that your support is needed to make this method of distribution work. Improving these utilities as well as StuffIt itself is of benefit to the Macintosh community in general, furthermore, it's enjoyable for me. However, without some financial support, I cannot pursue this avenue.

Release versions of any of the StuffIt utilities may be distributed freely through electronic BBS', users' group libraries, timesharing services, public domain/shareware/freeware exchange forums and the like provided that such distribution is free except for normal duplication/distribution and/or usage charges. **Commercial distribution of the StuffIt Utilities in part or in its entirety requires special licensing.**

What you need to know:

You should know generally how to operate your Macintosh, how to use the mouse and the menus, how to open documents, copy files, etc. You should also be familiar with the Font/DA Mover and the concept of desk accessories. If you need help in any of these areas, please consult the manuals which came with your Macintosh. You should also be familiar with the StuffIt application.

What constitutes the StuffIt Utilities "package":

Currently, only two desk accessories are completed. They are:
1. UnStuffIt DA
2. Viewer DA

Some terminology:

StuffIt Utilities

You should be familiar with the following terms when reading this document. Some of them have been used already.

A _file_ is just that, any file which can be accessed by your Macintosh computer.
An _archive_ is a special file created by StuffIt which may contain other files, added by StuffIt.
An _entry_ or an _archive entry_ is a file which has been added into an archive by StuffIt.
Compression means the use of various algorithms in an attempt to compress files (reduce their size) before adding them into an archive.
Encryption is the use of an algorithm that makes the stored data in an archive unusable unless the proper password is entered. With encryption, you can keep your data from prying eyes.
Volume refers to any permanent storage device recognized by your Macintosh, such as a floppy disk, a hard disk, a tape, etc. In this document, volume may be used in context as the name of a volume. (The word "disk" is avoided because there are other devices such as CD-ROM and WORM that are used as storage media.)

Credits and Acknowledgements:

I would like to thank the following people and companies/organizations for their help with the development of StuffIt:

Richard Outerbridge - for providing an implementation of NewDE and help with optimizing the program in assembly.
David Schenfeld - for suggesting the idea of StuffIt in the first place and providing code from existing compression utilities.
THINK Technologies Inc. - for providing the excellent LightspeedC development environment.
Andrew Lih and Leonard Rosenthol - for help in testing the program in various stages of development.
J.W. McGuire - for designing the icon.
Alan Weber - for providing UnPacking code.
The operators of BEC Public Access UNIX for providing a UNIX system for my use and Usenet access.
All registered StuffIt users for their support of the program and their comments.
Apple Computer, Inc. What would we do without the Macintosh? Nothing further needs to be said.

2. **UnStuffIt DA**

Description/Installation

This is a desk accessory which, once installed, allows you to decompress archives from within any application which supports desk accessories. You may also use it to list an archive's contents. Note: It only operates with _non-encrypted_ entries.

This DA needs quite a bit of memory to run (about 160-170k). You may not always have enough memory to run it. If this is the case, you'll hear a beep upon an attempt to open it.

Before you can use this DA, you must install it with Font/DA Mover or open it under Suitcase and the like. Once installed, you can invoke UnStuffIt DA from the apple menu.

Operation

When first opened, UnStuffIt DA will put up a dialog box asking you to select an archive to work with. Do so in the usual manner. You will be presented with a list of all entries in that archive.

StuffIt Utilities

Here, you may use the scroll bar to view the entries or you may choose to extract one or more entries. If you wish to extract files, please select the entries to be extracted. You may do so by clicking on an entry to select it, or by using the shift key to make a continuous selection of more than one entry. You may also use the command key to make a discontinuous entry. After selecting the entries to extract, **double-click** over any selected entry.

You will be asked where to save each entry. Because of a limitation upon desk accessories, you are not provided separate buttons for Save, Save All, Skip and Cancel as you are in StuffIt and UnStuffIt, but the functions of each of those buttons can be replicated here.

<u>Save</u> is analogous to the Save button in StuffIt's extract dialog. Clicking Save will extract and save the selected entry. When done, it'll return to the dialog for the next selected entry.

Holding down the <u>Shift</u> key when selecting <u>Save</u> is the same as the Save All button in StuffIt's extract dialog. It will extract and save all of the selected entries to the same location on the volume using their default file names.

<u>Cancel</u> is the same as Skip. Clicking Cancel will skip the entry.

Holding down the <u>Shift</u> key when selecting <u>Cancel</u> is the same as Cancel. This will cancel further extraction of files.

When you're done with an archive, you may either close UnStuffIt DA by clicking in the close box or you may work with another archive by clicking on the **Open…** button.

3. **Viewer DA**

The Viewer DA works much like UnStuffIt DA except that you may not extract any entries with it. You may only view the entries in an archive. (That's why selection of entries in Viewer DA is not possible.) You may wish to use this DA if you do not have enough free memory to run UnStuffIt DA.

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The names and words StuffIt, UnStuffIt, StuffIt Utilities, sit, .sit and unsit; the black, fading, shadow StuffIt logo; and the phrase, "The Macintosh archive utility" should be used to refer to my programs only. They may be used with programs compatible with and/or requiring StuffIt, UnStuffIt and/or StuffIt archives. StuffIt, StuffIt Utilities and UnStuffIt should not be used as titles of programs for any computer. Please use sit and unsit instead. I have devised the above "rules" to prevent general confusion within the computing community. You are not legally bound to follow these rules, but I would prefer it to keep uniformity and not to confuse users.

B. **Error Codes**

File system errors are currently reported in the form of cryptic error codes. Some common ones are listed below. They have been grouped logically as to why they may have occurred.

```
DirFulErr      = - 33; { Directory full }
DskFulErr      = - 34; { disk full }
IOErr          = - 36; { I/O error - Possibly bad disk?  }
MFulErr        = - 41; { memory full(open) or file won't fit (load) }
TMFOErr        = - 42; { too many files open }
                       { These are basically self-explanatory. }

WPrErr         = - 44; { disk is write protected }
FLckdErr       = - 45; { file is locked }
VLckdErr       = - 46; { volume is locked }
OpWrErr        = - 49; { file already open with with write permission }
PermErr        = - 54; { permissions error (on file open) }
WrPermErr      = - 61; { write permissions error }
                              { StuffIt likes to be able to write to its archives at
will. }

lastDskErr     = - 64; { last in a range of low level disk errors }
firstDskErr    = - 84; { first in a range of low level disk errors }
                       { These errors may indiate defective hardware or a bad disk. }

TMWDOErr       = - 121;{ No free WDCB available }
                              { This error is caused by a limitation in the Mac's file
system. }
                              { Try quitting the current application and try again. }
```

Some error messages which may be reported by StuffIt and which may be a bit cryptic…

After selecting a file in any of the Open type dialog boxes or after typing in a name in any of the Save As type dialog boxes, you may get a report that a "serious error" has occurred. This should be documented in your Macintosh manuals, but I haven't personally checked. This error is identical to the TMWDOErr (-121). It is caused by a limitation in the Mac's file system. Quit back to the Finder, relaunch and try again.