GetSize

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COLLABORATORS

	TITLE : GetSize	

ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY	Paul A. Schifferer	February 12, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

1 GetSize **1**

1.1 GetSize: Table of Contents . . . 1
1.2 GetSize: Terms . . . 1
1.3 GetSize: Disclaimer of Warranty . . . 2
1.4 GetSize: Introduction . . . 2
1.5 GetSize: System requirements . . . 2
1.6 GetSize: Setting the stack size . . . 2
1.7 GetSize: Registration . . . 2
1.8 GetSize: My address(es) . . . 3
1.9 GetSize: Undocumented features . . . 3
1.10 GetSize: Acknowledgements . . . 3
1.11 GetSize: Using GetSize . . . 4
1.12 GetSize: Miscellaneous . . . 5
1.13 GetSize: Program history . . . 6
1.14 GetSize: nothing . . . 6

Chapter 1

GetSize

1.1 GetSize: Table of Contents

GetSize

Version 40.4

Written by Paul A. Schifferer

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Terms

Disclaimer of Warranty

Introduction

System requirements

Registration

Undocumented features

Using GetSize

Miscellaneous

Program history

1.2 GetSize: Terms

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1.3 GetSize: Disclaimer of Warranty

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SO THERE.

1.4 GetSize: Introduction

Introduction

GetSize is a Shell utility I wrote in a day that performs byte-counts in a directory, much like one of the function buttons in Directory Opus. But I got tired of having to use DOpus just to get the size of a directory, so up sprang this program.

1.5 GetSize: System requirements

System requirements

GetSize requires version 2.04 or higher of the Amiga OS.

GetSize also requires a stack size of at least 4,096 bytes.

1.6 GetSize: Setting the stack size

You can check this in your Shell by entering

stack

at the prompt. This will tell you the size of your Shell's stack. If it's less than 4,096, then enter

stack 4096.

This will change the stack size so it's large enough for GetSize to run.

1.7 GetSize: Registration

Registration

GetSize is technically giftware. (I hate all the different -ware terms.) I don't believe or subscribe to the current shareware philosophy. If I wanted (read: demanded) money for my work, I would release it as a commercial product. I've written and

released this program in this form because I believe the Amiga is an awesome computer, and I want to lend my support to its (hopefully) long and glorious life. I want to make your use of the Amiga productive, efficient, and most of all enjoyable. All I want is a 'thank you' or 'great job'. (Of course, I don't object to receiving money :) (see below), but I'm not going to get nasty about it, like some other authors.)

But enough blithering; here's the bottom line: This program is NOT crippled in any way, shape or form, thus no fee is required to make it fully functional. You have it in all its splendor and glory. Use it, enjoy it. If you like it, send me a postcard, or a program you've written, or something to say 'thanks'.

If you want to, you can send me $5US, which will get you the next release sent right to you. The money's only to cover disk and mailer costs (and a teeny profit :).

1.8 GetSize: My address(es)

The address to which you can send me money, postcards, a spare Amiga, or anything else is:

Paul A. Schifferer

515 11th Street

Edwards AFB, CA 93523

USA

I can also be contacted via Internet at:

gandalf@hughes.net

1.9 GetSize: Undocumented features

Undocumented Features

Some people call these things 'bugs'. If you happen to notice one of these little critters, let me know, please! I've done my best to make sure all the bugs were discovered and removed, but I can't find them all. If finances are favorable, I may send you the next release at my cost.

Please, if you send me bug reports, make sure to let me know the type of system you're running it on (CPU, RAM, etc.), which executable you were using, what other programs were running with it (especially commodities and system enhancers, since they tend to gum up the works sometimes), and what you were doing at the time of the bug occurrence/system crash.

1.10 GetSize: Acknowledgements

Acknowledgements

I'd like to thank the following people:

My wife, Michelle, for her love and support.

Jonathan Potter, for the excellent program Directory Opus, which inspired this program.

King's X, Toad the Wet Sprocket, Sugar, Tool, Cowboy Junkies, Jeff Johnson, who keep me going throughout the day.

Escom AG and Amiga Technologies GmbH, for bringing back the Amiga. Let's hope whoever owns it this week will do a good job.

You, for using this program. :)

1.11 GetSize: Using GetSize

The Shell

Before you use GetSize, you must make sure your Shell's stack size is at least 4,096 bytes or greater. GetSize can be highly recursive while scanning directories, so you may want to set the stack higher.

Format GetSize [PATH] {path(s)} [DIRS] [FILES] [COUNT] [TERSE] [VERBOSE] [NORECURSE|NORC] [BLOCKS] [BYTES] [SEPARATOR|SEP=c]

GetSize scans the specified directories (paths) and calculates the amount of space taken up by all the files in them.

The PATH keyword is optional, but at least one path must be specified. You can specify more than one if you like.

The DIRS keyword tells GetSize to count only directories, not files. This option is only useful in conjunction with the COUNT option (below).

The FILES keyword tells GetSize to count only files, not directories. This option is only useful in conjunction with the COUNT option (below).

The COUNT keyword modifies GetSize's behavior. Normally, GetSize performs a byte-count on the directories and returns the total size in bytes used by that directory. COUNT tells GetSize to actually count the number of files and directories in the specified directory (modifiable by the DIRS and FILES keywords) and return that number.

The TERSE keyword tells GetSize to return it's results in a terse format, easier for parsing in ARexx scripts, for example. TERSE returns a byte-count of the directories, unless the COUNT keyword was used. In that case, it returns the string "<#-files> <#-dirs>", in which the Files or Dirs may not appear, depending on whether the FILES or DIRS keywords were used. Sound confusing? Just try it out then.

The VERBOSE keyword (which is the default) tells GetSize to display the results in a more wordy format. VERBOSE returns the string:

"<#> bytes in <#> files and <#> directories."

The "and <#> directories" may not appear, if there were no directories in the directory being scanned. If the COUNT keyword was used, the resulting string would be:

"Files: <#-files> Dirs: <#-dirs>"

The NORECURSE/NORC keyword tells GetSize not to recurse into subdirectories during the scan. This is useful for getting just a count of a single directory.

The BLOCKS keyword tells GetSize to return a count of the number of blocks that are used, instead of the number of bytes.

The BYTES keyword has a twofold purpose. When used with the BLOCKS keyword, the amount of "real" bytes (i.e., blocks * block-size) is returned. When used without the BLOCKS keyword, the standard byte-count is returned.

The SEPARATOR/SEP keyword is used to specify a field separator for numbers. For example, GetSize returns a byte-count of a directory as '1934175'. If you specify "SEPARATOR=.", the byte-count will look like '1.934.175'. Pretty slick, eh?

The NOENV keyword tell GetSize to ignore its environment variable (see below) and the settings contained therein.

Examples

SYS:> GetSize DEVS:

365324 bytes in 113 files and 6 directories.

SYS:> GetSize DEVS: FILES COUNT

Files: 113

SYS:> GetSize DEVS: COUNT

Files: 113 Dirs: 6

SYS:> GetSize DEVS: COUNT NORC

Files: 20 Dirs: 6

SYS:> GetSize DEVS: TERSE

365324

SYS:> GetSize DEVS: TERSE SEPARATOR=,

365,324

Environment variable

You can also put options that you know you'll use often in an environment variable. The name of this environment variable must be 'GetSize.prefs'.

Any of the options available on the command line may be used, and each must be on its own line. For example, you want the terse option on, block counts instead of bytes, and a period separator. 'GetSize.prefs' would look like this:

TERSE

BLOCKS

SEPARATOR=.

Then, all you have to do is just type in 'GetSize <dir>' and your options will be automatically used.

Note that options typed on the command-line will override options in the environment variable. Also note that if you use the BLOCKS/BYTES combination in the environment variable, you MUST specify BYTES after BLOCKS.

1.12 GetSize: Miscellaneous

Miscellaneous

This chapter basically covers, well, miscellaneous things that usually can't be place anywhere else, plus just some tidbits of information.

The Future

I plan to add a sort of localized text feature soon. I'm trying to find the most efficient way to do it, which is why it isn't in this release.

If you can think of anything to add to this little utility, let me know.

Authenticity

If you want to be sure that the files in this archive are authentic, I have enclosed below my PGP public key. All binaries and documentations are accompanied by a PGP signature file, which can be used to verify the authenticity of each file.

-----BEGIN PGP PUBLIC KEY BLOCK-----

Version: 2.6.2

mQBtAzFM4HgAAAEDAMrjdVJRvZT93v/e9lKPtEdNsnyFpC66+lJ3tcqy62dcbQKl

2kze/s3vpxDN8DBhs/WeoxPQFmMFekT8BdkxELznxLGPOil1ylPCaNQY2juwQfVP

AMYKGbTTzufh5uYGvQAFEbQnUGF1bCBBLiBTY2hpZmZlcmVyIDxnYW5kYWxmQGh1

Z2hlcy5uZXQ+

=gVLn

-----END PGP PUBLIC KEY BLOCK-----

1.13 GetSize: Program history

History

40.4 24 Nov 1996 - Public release

Bugs fixed:

- The last option specified in 'GetSize.prefs' was having the last character truncated if there was no end-of-line character. Fixed.

40.3 7 Sep 1996 - Public release

Added:

- NOENV keyword.

Changed:

- Updated docs to cover using GetSize.prefs environment variable.

40.2 6 Sep 1996 - Public release

Added:

- New options: BLOCKS, BYTES (Nikola Smolenski), SEPARATOR (Andre' Vellori).
- Will now read options from ENV:GetSize.prefs, so you don't have to type them on the command-line! :) (Andre' Vellori)

40.1 3 May 1996 - Initial release. Wheeee! :)

1.14 GetSize: nothing

Nothing!

What'd you think a button marked 'nothing' was going to do???