

UrlManager

Serge Emond

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Chapter 1

UrlManager

1.1 UrlManager.guide/Contents

UrlManager

Version 1.0

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1.2 UrlManager.guide/About English

A word or two about English

My primary language is French. I read English very well but I'm sure what I write is awful. Sorry about that.

I could write this in French but maybe you could not read it!

When I will have some free time I will write the docs in French too but that's not now!

1.3 UrlManager.guide/Introduction

Introduction

I'm writing UrlManager because I want to build an HTTP robot.

An HTTP robot is a program that can automatically download one or more files using HTTP. Then it can scan those files to search for references to other files that it download upon some conditions and so on...

UrlManager keeps a list of URL in memory. When started, the only thing it can do is to wait for ARexx commands.

1.4 UrlManager.guide/Features

Features

- Written in C, which means QUICK compared with ARexx scripts
- Each url is checked to see if already present in the list
- Each url has a "type" which can be any uppercase character
- Each url has a "depth" which is a long integer that can be used to indicate how "deep" to search this url for other urls.
- Many ways to search an url in the list, including AmigaDOS patterns
- Can read lists of URLs from file
- Can save an url-list containing all data (depth, type)
- ...

1.5 UrlManager.guide/Legal information

Legal information

License

No warranty

1.6 UrlManager.guide/License

License

UrlManager is released under the concept of freeware. This means you are allowed to use and copy this program freely, as long as the following requirements are fulfilled:

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1.7 UrlManager.guide/No warranty

No warranty

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1.8 UrlManager.guide/Requirements

Requirements

UrlManager requires at least OS v37 (2.0 release). You must know however that if used on a pre-v39 (3.0) machine, there is a bug in dos.library: character-classes ([x-y]) are not converted properly to uppercase. UrlManager won't uppercase them either. I suppose it will work OK if you use uppercase [x-y] patterns. (See you AmigaDOS manual or dos.lib's autodocs about patterns)

1.9 UrlManager.guide/History

The Past

Version 0 Revision 1 - 16.8.1996 and before

No record.

14.1.1997 - Seems stable. "0.1" -> "1.0"

1.10 UrlManager.guide/What's next

What's Next - The To Do List

- Multiple lists support
- Add a user field or better, a possibility to configure any number of fields
- AddUrl: return ID of existing url if RC=1.

1.11 UrlManager.guide/Bugs

Known Bugs

· Patterns, see [Requirements](#) .

1.12 UrlManager.guide/Credits

Credits

UrlManager was entirely written in 'C' by [Serge Emond](#) .

1.13 UrlManager.guide/Author

About the author

Name: Emond

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Current web: <http://www.jsp.umontreal.ca/~emonds/>

1.14 UrlManager.guide/This is BETA

This is a BETA release

This release is BETA. This means it has not been fully tested. I release it only because it seems stable and it works well on my computer. As stated in [legal issues](#) I may not be responsible for any damage caused by the use of this program.

1.15 UrlManager.guide/Arguments

Arguments

UrlManager can only be used from a Shell. It is pure and can be made resident.

You can stop it at anytime by sending it CTRL-C.

Text arguments

PORT Name of the ARexx port to open.

1.16 UrlManager.guide/Arguments/PORT

PORT

Required. Name of the ARexx port to open. You should use uppercase only if you plan not to always enquote the port-name in your arexx scripts.

1.17 UrlManager.guide/Types

Types

A type in UrlManager is a single character which can be any printable character. (ie letters and numbers)

If it is a letter, the type is uppercased. This way, in your rexx scripts, 'a' and 'A' are always the same thing.

Examples:

Q Queued

R Received

F Failed

1.18 UrlManager.guide/Depth

Depth

For UrlManager, a depth is simply a signed long integer.

For an url grabber, it can be used to indicate the level of recursion of a single url. For example a depth >0 could mean "Scan me and download urls contained in me". All urls contained in this one are added with a depth of 1, and then a depth of 0, which means "don't scan me".

When no depth is specified when adding an url, either with the [AddUrl](#) ARexx command or by loading an url list, the depth is set to "-1".

1.19 UrlManager.guide/IDs

IDs

Each url has a unique ID in UrlManager. This ID is used to get information on a specific url.

1.20 UrlManager.guide/Using ARexx

Using ARexx with UrlManager

Each time a command is received, the RC variable and a variable named "UMRES" are both set.

Any command can return at least one of these codes in RC:

10 Command unknown/mispelled

15 Error setting secondary result variable (UMRES)

Here's a list of all ARexx commands known of UrlManager:

ADDURL

FLUSHALL

GETDEPTH

GETHID

GETINMEM

GETTYPE

GETURL

KILLPATTERN
KILLTYPE
KILLURL
LOADFILE
MATCHNAME
QUIT
READFILE
SAVEFILE
SEARCH
SETDEPTH
SETIOSIZE
SETTYPE
SETURL

1.21 UrlManager.guide/ARexx/AddUrl

AddUrl TYPE/A,URL/A,DEPTH/N

AddUrl adds an url to UM's url list.

Arguments:

TYPE/A:

A single uppercase character representing the **type** of the url.

URL/A:

The url itself :)

DEPTH/N:

The **depth** of the url. If omitted, -1 is used.

RC:

0 Added. Url's ID is in UMRES.

1 The url was already in the list.

2 Error adding url. (ie not enough memory)

5 Error parsing args.

UMRES:

ID of the url.

1.22 UrlManager.guide/ARexx/FlushAll

FlushAll

Flush the entire list and reset the **IDs** .

Arguments:

None.

RC:

0 Ok.

99 Could not create new memory pools.

You really should issue a **Quit** command

if you receive this.

UMRES:

Nothing.

1.23 UrlManager.guide/ARexx/GetDepth

GetDepth ID/A/N

Get the depth of an url.

Arguments:

ID/A/N:

The **ID** of the url to get depth from.

RC:

0 Depth is in UMRES.

1 This ID is not in use.

5 Error parsing args.

UMRES:

Depth of the url.

1.24 UrlManager.guide/ARexx/GetHid

GetHID

Get the highest **ID** number.

Arguments:

None.

RC:

0 Ok.

UMRES:

Highest **ID** number.

1.25 UrlManager.guide/ARexx/GetInMem

GetInMem

Get the total number of URLs in the list.

Arguments:

None.

RC:

0 Ok.

UMRES:

Total number of urls in the list.

1.26 UrlManager.guide/ARexx/GetType

GetType ID/A/N

Get the type of an url.

Arguments:

ID/A/N:

The **ID** of the url to get type from.

RC:

0 Ok.

1 ID not in use.

5 Error parsing args.

UMRES:

The type of the url requested.

1.27 UrlManager.guide/ARexx/GetUrl

GetUrl ID/A/N

Get the name of an url.

Arguments:

ID/A/N:

ID of the url to get name from.

RC:

0 Ok. Name in UMRES.

1 ID not in use.

5 Error parsing args.

UMRES:

Url.

1.28 UrlManager.guide/ARexx/KillPattern

KillPattern PATTERN/A

Kill all urls matching an AmigaDOS pattern. (Or an exact url name if no pattern-chars are given :)

Arguments:

PATTERN/A:

An AmigaDOS pattern.

RC:

0 Ok.

5 Error parsing args.

UMRES:

Quantity of url killed. 0 can either mean that the pattern could not be parsed or that there were no url matching pattern.

1.29 UrlManager.guide/ARexx/KillType

KillType TYPE/A

Kill all urls of a specific **type** .

Arguments:

TYPE/A:

A single uppercase character representing the **type** .

RC:

0 Ok.

5 Error parsing args.

UMRES:

Quantity of url killed.

1.30 UrlManager.guide/ARexx/KillUrl

KillUrl ID/A/N

Kill a specific url.

Arguments:

ID/A/N:

Url **ID** to kill.

RC:

0 Killed.

1 ID not in use.

5 Error parsing args.

UMRES:

Nothing.

1.31 UrlManager.guide/ARexx/LoadFile

LoadFile FILE/A

Read a file containing an url list. One url/line, each line like this:

<Type> <Depth> <Url>

Only spaces (DEC 32, HEX 20, " ") are allowed between the 3 fields. (NO tabs...)

Arguments:

FILE/A:

Filename.

RC:

0 Everything went OK. QUantity of url added in UMRES.

1 Error opening/parsing file.

5 Error parsing args.

UMRES:

Quantity of url added.

See also:

SAVEFILE

1.32 UrlManager.guide/ARexx/MatchName

MatchName NAME/A,NOCASE/S

Find an url with a specific name.

Arguments:

NAME/A:

Name of the url.

NOCASE/S:

If specified, do a case insensitive search.

RC:

0 Ok. ID in UMRES.

1 No match.

5 Error parsing args.

UMRES:

ID of the url.

1.33 UrlManager.guide/ARexx/Quit

Quit

Tells UrlManager to free its memory and to exit.

Arguments:

None.

RC:

0 I'm quitting.

UMRES:

Nothing.

1.34 UrlManager.guide/ARexx/ReadFile

ReadFile FILE/A,TYPE/A,DEPTH/N

Read a file containing one url per line. Each line must only contain the url.

Arguments:

FILE/A:

The name of the file to read.

TYPE/A:

The type Link TYPES} each url added will have.

DEPTH/N:

Depth each url will have. Default: -1.

RC:

0 Ok. Quantity of url added in UMRES.

1 Error opening/parsing file.

5 Error parsing args.

UMRES:

Quantity of url added.

See also:

SaveFile

1.35 UrlManager.guide/ARexx/SaveFile

SaveFile FILE/A,TYPE/K,PATTERN/K,APPEND/S,FULL/S

Selectively save url(s) to disk, either in **ReadFile** 's or **LoadFile** 's format.

Arguments:

FILE/A:

Name of to file to write urls to.

TYPE/K:

If specified, save only urls of that type.

PATTERN/K:

If specified, save only urls matching that AmigaDOS pattern.

APPEND/S:

If specified, append to file instead of overwriting.

FULL/S:

If present, save a **LoadFile** file, if absent, save a **ReadFile** file.

RC:

0 Ok.

1 Error saving file.

5 Error parsing args.

UMRES:

Nothing.

1.36 UrlManager.guide/ARexx/Search

Search MINID/A/N,PATTERN/K,TYPE/K

Search the list (lowest ID first) for an url.

Arguments:

MINID/A/N

Required. Lowest ID number to scan. 0 scans all of them..

PATTERN/K:

AmigaDOS pattenr that must be matched if specified.

TYPE/K:

If specified, scan only that **type** .

RC:

0 Ok.

5 Error parsing args.

UMRES:

ID of the url or 0 if nothing found.

1.37 UrlManager.guide/ARexx/SetDepth

SetDepth ID/A/N,DEPTH/A/N

Change the **depth** of an url.

Arguments:

ID/A/N:

ID of the url.

DEPTH/A/N:

New **depth** of the url.

RC:

0 Ok.

1 ID not in use.

5 Error parsing args.

UMRES:

Nothing.

1.38 UrlManager.guide/ARexx/SetIOSize

SetIOSize SIZE/A/N

Set the size of input/output buffer.

Arguments:

SIZE/A/N:

Size in bytes. If < 1024, 1024 is used. Default: 4096.

RC:

0 Ok.

5 Error parsing args.

UMRES:

Nothing.

1.39 UrlManager.guide/ARexx/SetType

SetType ID/A/N,TYPE/A

Change the **type** of an url.

Arguments:

ID/A/N:

ID of the url.

TYPE/A:

New **type** of the url.

RC:

0 Ok.

1 ID not in use.

5 Error parsing args.

UMRES:

Nothing.

1.40 UrlManager.guide/ARexx/SetUrl

SetDepth ID/A/N,URL/A

Change the name of an url.

Arguments:

ID/A/N:

ID of the url.

URL/A:

New name of the url.

RC:

0 Ok.

1 ID not in use.

5 Error parsing args.

UMRES:

Nothing.
