

# **HTTPResume**

Andrija Antonijevic

**COLLABORATORS**

	<i>TITLE :</i> HTTPResume		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY	Andrija Antonijevic	February 12, 2023	

**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## HTTPResume

### 1.1 Welcome to HTTPResume

HTTPResume 1.2

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**Legal stuff** Lawyers enjoy reading this...

**Introduction** What is this thing anyway?

**Features** What can it do?

**Requirements** What do I need to use this?

**Giftware** No comment...

**Installation** How to install...

**Usage** Please read this

**Bugs** Just call the exterminators ;>

**Credits** Credit where credit's due

**History** And on the first day...

**Author** No comment...

### 1.2 Usage

HTTPResume can be **started from CLI** or **from Workbench** .

Its GUI is pretty simple. String gadgets URL, File, Proxy, Range and GMT[Offset] should contain necessary data. "<" button gadget next to URL string gadget copies text from clipboard to URL. There's a getfile gadget which calls ASL file requester in which you can set output file name. In v1.2 checkbox gadget was added next to proxy string gadget to make it possible to temporarily enable/disable proxy. You can also set Overwrite and No cache options using appropriate checkbox gadgets. When you enter filename and URL field is empty, HTTPResume will check if file has comment which starts with valid protocol and if it does it will copy that comment to the URL field. If URL field is not empty and you still want this to happen, you will have to manually empty it. Also, if you have only directory name in the outfile field (set, for example using STARTDIR tooltype/argument) HTTPResume will try to figure out the name of the file from URL (if there is one). This "smart" behaviour is used if you start HTTPResume from CLI and if you start it from WB. If you start it from WB, HTTPResume will only behave this way if you press Return or [SHIFT-]TAB to confirm your input. If you start it from CLI and only supply URL, there also has to be STARTDIR argument.

When you've set everything, you can click on Start. When you click on Start, HTTPResume will check validity of the arguments supplied and (if everything is OK) see if it needs to find out the size of file. If the file exists and OVERWRITE is not set

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HTTPResume will try to find the file date and if it does it will ask server to send rest of the file only if it hasn't been modified since you downloaded the first part. You can change this behaviour by setting the icon tooltype NODATECHECK (if started from WB) or by specifying NODATECHECK in command line (if started from CLI). When this is done, HTTPResume will try to connect to the host/proxy and get the requested URL. If an error occurs, HTTPResume will (depending on the value of AUTORESUME) either fail or try again (waiting specified number of seconds between retries) until maximum number of retries is reached. During the download you should be able to see transfer progress. When the download is finished, the Range field will be cleared even if an error occurred because otherwise it can cause file to be downloaded improperly.

A tip for usage with AWeb. You can add something like following line into links pop-up menu.

```
SYSTEM Path:HTTPResume %u `C:\RequestFile DRAWER=Work:T PUBSCREEN=AWEB` PROXY=http://proxy.rcub.bg.ac.yu:8080  
PUBSCREEN=AWEB GUI
```

Of course, change DRAWER to the one you keep you downloads in and PROXY to your proxy. RequestFile is standard command that comes with WB3.0+ This line will download URL to file you select. Here's an alternative entry:

```
SYSTEM Path:HTTPResume %u SD=Work:T PROXY=http://proxy.rcub.bg.ac.yu:8080 PUBSCREEN=AWEB GUI
```

This one uses "smart" feature of HTTPResume. It will download the file to Work:T and find out name of the file from URL. Experiment with this before you start using it for "real" downloads.

Final words: Please keep in mind that this program is primarily ment to be used for resuming downloads, and not for complete downloads. It can be used as HTTPGet, but only when OVERWRITE is used.

Many of you might want MUI interface. Please, do not ask me for that since I am one of those who are not very fond of it. I have spent some time on making GUI resizable and since this is very small program, I don't think GUI needs to be better.

## 1.3 Author

My address:

E-mail:

Andrija Antonijevic <TheAntony@bigfoot.com>

Home page:

<http://www.bigfoot.com/~TheAntony> or

<http://www.rcub.bg.ac.yu/~antony>

It's the same page, if one doesn't work, try the other one.

Snail-mail:

Andrija Antonijevic

Bulevar Vuka Karadzica 5/5

32000 Cacak

Serbia, Yugoslavia

## 1.4 History

1.2 (14.6.98)

This version was supposed to be a minor update, but it got out of my hands ;) I would like to thank all the people who voted HTTPResume 12th and a week later even 8th best program on Aminet. Thank you :)

Completely localized thanks to ATO. Debug file

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is not localized because of obvious reasons :)

Completely rewrote URL parsing routines. HTTPResume should be able to cope with any valid URL.

Added URL and proxy authorization. However, I did not have a chance to test proxy authorization so I would be very grateful if someone would tell me if it works.

HTTPResume now supports redirection (files that have been moved permanently/temporarily)

HTTPResume will now check if it should not write its current status because it might pause download for a while (f. eg. if you are moving windows, icons etc... around). This will speed up download in these cases, but it will cause messages that would otherwise be displayed to be lost. They will still be in debug file, if it's enabled, though (Mark Knibbs)

Added iconification (Ljubomir Jankovic).

I have also added possibility to have user-selectable position and width of iconify window and also option to start HTTPResume iconified

Added FONTNAME and FONTSIZE arguments/tooltypes (Original suggestion to use Screen Text font by Luca "Hexaä" Longone)

When not downloading file through proxy, HTTPResume would write only its path and not full URL to file's comment.

Fixed (Daniel Schmitt and Mark Knibbs)

Added gadget to enable/disable usage of proxy (Mark Knibbs)

Added QUICKQUIT tooltype (Ljubomir Jankovic)

Changed the way that GUI was resized. It's a bit smarter now :) (Mark Knibbs)

Fixed a bug which would display requester with a message even if HTTPResume was started from CLI (Mark Knibbs)

1.1 (21.4.98)

Improved GUI interactivity. It will now respond instantly even if the download is taking place.

As very nice side-effect, it is now possible to instantly abort downloads

Fixed a bug which would sometimes cause bad

---

range to be downloaded (Renne Nissinen)  
GUI option added  
Added AUTORESUME option (Mark Knibbs)  
Switched to ASL file requesters as planned  
for version 1.0 (Mark Knibbs)  
Added debug to file option (Mark Knibbs)  
Added possibility to disable date checking (Mark  
Knibbs)  
Added User-Agent: field  
BUGFIX: When Return or TAB wasn't pressed after  
the input in string gadgets was made, HTTPResume  
wouldn't accept changed values (Renne Nissinen)  
Improved progress indicator. It will now also  
show the percentage and file size on disk, not  
just of the file part which is being downloaded  
(Daniel Schmitt)  
HTTPResume will now write URL to file comment  
if there hasn't been one already (Daniel Schmitt)  
HTTPResume will try to be smart and figure out  
missing arguments (Daniel Schmitt)  
Added WINX and WINY arguments/tooltypes  
Added STARTDIR argument to CLI, too (Ljubomir  
Jankovic)  
1.0 (2.4.98)  
Initial version (you don't say :))  
Works ;)

## 1.5 Credits

This program is partially based on HTTPGet by Steven Dick <ssd@mae.engr.ucf.edu>.

It also partially uses GadToolsBox by Jan van den Baard (I have added GUI resizability)

I would like to thank following people for suggestions/bug reports (in alphabetical order):

Ljubomir Jankovic, Mark Knibbs, Renne Nissinen, Daniel Schmitt and Marco De Vitis.

This software was translated with the help of ATO, the Amiga Translators' Organization. ATO is a non-profit organization that translates for the Amiga community!

English: Andrija Antonijevic <TheAntony@bigfoot.com>

Amiga Translators' Organization: <http://ato.vapor.com/ato/>

mail: [ato-info@ato.vapor.com](mailto:ato-info@ato.vapor.com)

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## 1.6 Giftware

HTTPResume is giftware. If you like it and use it you should send **me** a gift. I'll leave this to your imagination...

If you can not afford to send me a gift, at least pay a visit to **my homepage** and sign my guestbook and say what you really think about this program.

## 1.7 Requirements

Required:

AmigaOS 2.0+

asl.library

A TCP/IP stack such as AmiTCP or compatible

## 1.8 Features

Gives you the ability to continue interrupted downloads

Can automatically resume download when an error occurs

Can be used from CLI or from WB

It has font adaptable non-MUI GUI? O:}

## 1.9 Introduction

I just saw this thing on the 'net and I would like to download it!

It's 6+ MB? No problem!

[After a while]

Almost done... Few kilobytes to go... <Put your favorite reason for download to be interrupted> Aaaaaaaahhhhhhh! It can do that to me!!!

I'm sure you've been in this situation at least once. It's nice when you discover that you have to download the whole thing again just because few kBs are missing... Of course, you might be lucky to find the same thing on FTP site and continue downloading from the point it was interrupted, but it's not always like that. This program will let you continue interrupted downloads, but only from servers which support this i.e. servers that use HTTP 1.1 protocol. There are more and more servers of this type every day, so it should be easy to find them... I hope O:) (wuarchive.wustl.edu is one of those servers) Anyway, this program is intended to be just a temporary solution before all Amiga browsers become capable of supporting this feature. Note that program is called HTTPResume. You can not use it to continue interrupted FTP downloads nor any other kind except HTTP. HTTPResume will act as HTTPGet in cases when you give it XYZ protocol and even will let you this only when using proxy.

## 1.10 Disclaimer

HTTPResume

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The author reserves the right not to develop any future versions of this software package.

The author will give his best to solve any problem, if any are discovered, but is in no way required, or bound to do this.

This archive can be freely distributed provided its structure is preserved.

Aminet is explicitly allowed to distribute this archive on its CDs.

Magazines have my permission to distribute this program on their cover disks and CDs, but I would appreciate if a copy of the magazine would be sent to me in that case.

## 1.11 Installation

It's so simple that I didn't include an installation script O;) Copy HTTPResume (and HTTPResume.info) to any directory which is in your path, optionally HTTPResume.guide somewhere and you're ready to go. If there's a catalog for your language, you can copy it to LOCALE:Catalogs/YourLanguageName.

## 1.12 CLI

When started from CLI the template is:

```
URL,OUTFILE=OF,PROXY,RANGE,OVERWRITE/S/K,NOCACHE/S/K, GMTOFFSET=GMT/N,NODATECHECK=NODATE/S/K,
ATTEMPTS/N,DELAY/N,STARTDIR=SD,PUBSCREEN=PS,GUI/S/K,WINX/N, WINY/N,ICOX/N,ICOY/N,ICOWIDTH/N,START
FONTNAME=FNAME,fontsize=FSIZE,NOPROXY/S/K,QUIET/S/K,DEBUG
```

Very important! HTTPResume opens OUTFILE in "append" mode unless OVERWRITE is specified. Keep this in mind!

URL is (logically) the URL you want to download/continue downloading. If you don't set proxy, it has to start with http://! Starting with v1.2, you can specify username and password in URL.

OUTFILE (or OF) is the file you want to download/continue downloading to.

PROXY is proxy in format http://user:password@address.of.proxy:port. (User and password are not necessary if your proxy doesn't require them) For example, http://proxy.matf.bg.ac.yu:8080.

RANGE is range you want to get. Some examples:

0-99 gets first 100 bytes

-799 gets first 800 bytes

100- gets everything but first 100 bytes (0-99).

If you don't set RANGE (nor OVERWRITE) HTTPResume will try to be smart and figure out what range it should get. For example, if you've set OUTFILE to RAM:Testfile and RAM:Testfile already exists and it's size is 1234 bytes, HTTPResume will ask for range 1234- (because "0-1233"=1234 bytes are already there!).

OVERWRITE tells HTTPResume not to look at the size of (possibly) existing OUTFILE and to overwrite OUTFILE in case it exists (i.e. open the file in "write" mode).

NOCACHE speaks for itself. I don't think it makes much sense when resuming download.

GMTOFFSET: When resuming download with range not explicitly set by you, HTTPResume will only resume if file you are downloading is unmodified since <timestamp on OUTFILE>. Because of that, HTTPResume needs to know this value. It's number of minutes that need to be added to your local time to get GMT. This is a bit unusual, but that's the way this value is stored in struct Locale on Amiga. Anyway, you don't need to set this value if you have locale set up correctly on your system since HTTPResume will find this value for you. For example, Yugoslavia is GMT +1, so GMTOFFSET is -60 (note the change of sign).

NODATECHECK (or NODATE) will tell HTTPResume not to send If-Unmodified-Since field when it sends HTTP request. This can be useful if you know that the file is same, but the date stamp isn't.

**AUTORESUME** (or **AUTO**): If the download is interrupted for some reason (unless you abort it) HTTPResume will try to continue it again automatically.

**ATTEMPTS** Number of attempts to resume download. Makes sense only if used with **AUTORESUME**. Default is 5 attempts.

**DELAY** Seconds to wait between two retries. Makes sense only if used with **AUTORESUME**. Default is 10 seconds.

**STARTDIR** (or **SD**) is name of directory in which ASL file requester will open (**WB**) or name of the directory to which the **OUTFILE** will be appended to make final **OUTFILE** (**CLI**). If (in the latter case) **OUTFILE** is full path, its contents will not be appended to **STARTDIR**, it will remain unchanged.

**PUBSCREEN** is name of public screen for HTTPResume to open it's window on. If invalid name is entered, the window will be opened on default public screen. (When started from **CLI**, only makes sense when used with **GUI** option)

**GUI** Will tell HTTPResume to act as if it was started from **WB**. Tooltypes will not be examined!

**WINX** and **WINY** X and Y coordinates of HTTPResume's window. (When started from **CLI**, only makes sense when used with **GUI** option)

**ICOX**, **ICOY** and **ICOWIDTH** are X and Y coordinates and width of HTTPResume's window when it's "iconified". (When started from **CLI**, only makes sense when used with **GUI** option). On systems with intuition.library v39+, 65535 for **ICOX** and **ICOY** means current window position. You can "iconify" HTTPResume by clicking on zoom gadget on its window. Be very careful: if you change size of HTTPResume's window just to its title bar, you won't be able to change its size again! Keyboard shortcuts will still work, though.

**STARTICONIFIED** is self-explanatory.

**FONTNAME** and **FONTSIZE** are rather obvious. If specified font size is too big to fit on screen, HTTPResume will fall back to system default font or even to topaz 8 from ROM.

**NOPROXY** will tell HTTPResume to ignore proxy if it's specified. There's not much point in using it as default tooltype (you can simply leave **PROXY** tooltype empty). It's here just because of consistency.

**QUIET** will make HTTPResume show only error messages.

**DEBUG** File to output HTTPResume debugging information among which are headers that server returns. If you have a bug report, please include this file in it! You can set this to anything you like. For example, if you want to see what's happening, you might want to set **DEBUG=CON://///CLOSE/WAIT** (you might want to add some more options, like X and Y coords, width and height and name of the public screen for **CON**: to open on).

## 1.13 WB

When started from Workbench, HTTPResume will examine tooltypes of its icon.

Possible tooltypes are

**STARTDIR**, **PROXY**, **OVERWRITE**, **NOCACHE**, **GMTOFFSET**, **NODATECHECK**, **AUTORESUME**, **ATTEMPTS**, **DELAY**, **PUBSCREEN**, **WINX**, **WINY**, **ICOX**, **ICOY**, **ICOWIDTH**, **STARTICONIFIED**, **FONTNAME**, **FONTSIZE**, **NOPROXY**, **QUIET**, **QUICKQUIT** and **DEBUG**.

Almost all tooltypes have the same meaning as **CLI arguments** with the same name. **QUICKQUIT** will not ask you if you want to quit, it will just do it.

## 1.14 Bugs

If you have a bug report, please check:

Have you read the documentation? ;>

Have you set up proxy correctly? (Especially the port part!)

If the stars say that today is not your day ;)

If you did all this, then please send **me** bug report. Please send me output of the **DEBUG** file as it will be very helpful!