

ADtoHT

COLLABORATORS

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Contents

1	ADtoHT	1
1.1	ADtoVT V1.01	1
1.2	background	1
1.3	legal	2
1.4	usage	3
1.5	notes	4
1.6	cygnused	5
1.7	thanks	5
1.8	history	6

Chapter 1

ADtoHT

1.1 ADtoVT V1.01

ADtoHT V1.01
30-Mar-93

A program to convert AutoDoc files to hypertext format

What is it

Legal Matters

Using ADtoHT

Notes

Thanks

History

1.2 background

ADtoHT V1.01 Background
=====

Are you a programmer? If not, you won't need this program.

Ever experienced a situation like this: You want to find out how to do xy. You pull out your favorite AutoDoc retrieval program, find references to other functions and/or include files, and so you keep typing and typing and typing until know what you were looking for. Assuming that you want to program instead of practicing your typing-skills, here is the solution: ADtoHT.

This program will convert your AutoDoc files to AmigaGuide

hypertext format. It will create links within an AutoDoc file, to other AutoDoc files, and to your include files.

1.3 legal

ADtoHT V1.01 Legal Matters
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ADtoHT V1.01 is © 1993 by Christian Stieber

I cannot be made responsible for anything that happens directly or indirectly through the use of ADtoHT. If it crashes your system, causing you to lose vital data; if it blows up your harddisk, turns your joystick into a flying saucer or kills your grandma:

```
*****
* DON'T BLAME ME. IT'S NOT MY PROBLEM. *
*           USE AT YOUR OWN RISK!       *
*****
```

ADtoHT V1.01 is FREeware. It may be spread freely, as long as all files (a list of all files is given below) are kept together unmodified.

This does not apply to commercial packages. If you really want to include ADtoHT with a commercial package, a shareware package, or some form of bookware, you must get my written permission first.

You may not spread modified versions of ADtoHT.

Christian Stieber
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W-8070 Ingolstadt
Germany

E-Mail while I'm still a student:
stieber@informatik.tu-muenchen.de

Any distribution of ADtoHT V1.01 must include the following files:

ADtoHT	the executable
ADtoHT.guide	this documentation file
adfile.c	the sources, using SAS/C V5.10
adfile.h	
convertad.c	
convertad.h	
incfile.c	
incfile.h	
main.c	

```
misc.c
misc.h
global.h
readdir.c
readdir.h
shortad.c
shortad.h
readxref.c
readxref.h
MyStartup.h
MyLib.h
MyStartup.o
MyLib.lib
lmkfile
```

1.4 usage

Using ADtoHT V1.01

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ADtoHT requires Kickstart V37 or later.

ADtoHT is a shell-only program. If you try to run it from Workbench it will exit quietly.

ADtoHT has the following template:

AUTODOCS/A, INCLUDES/A, HYPERTEXT/A, XREF/K, ERROR/K,
EXTENSION/K, NOEXPAND/S, TYPES/S, CED/S

AUTODOCS/A: This is the directory where your AutoDoc files are located. Currently ADtoHT will ignore any subdirectories within your AutoDoc directory.

INCLUDES/A: This is the directory where your system include files are located. It will be scanned recursively.

HYPERTEXT/A: This is the directory where you want your hypertext files to be written.

XREFOUT/K: This is where the crossreference file should be written. The default is "autodoc.xref" in your current directory. Note that a crossreference file will always be written; if you don't need it, use XREFOUT=NIL:

XREFIN/K: This specifies a crossreference to be read. Defaults to no file. See Notes for more information.

ERROR/K: An optional error file. All warnings will be printed on the CONSOLE: and written to this file, so you don't need to watch your

shell-window all the time. Defaults to no error file.

EXTENSION/K: The extension for your hypertext files. When creating the filenames, the ".doc" will be removed from the AutoDoc filename, and the new extension will be appended. Defaults to ".guide".

NOEXPAND/S: Prevents expansion of "typedef struct". See Notes for more information on typedef struct expansion.

TYPES/S: By default include files named "exec/types.h" will not be processed. This prevents links to types such as WORD, ULONG etc. Furthermore, typedefs defining "BSTR" und "BPTR" are ignored. If this switch is used, "exec/types.h" files will be processed normally, and "BSTR"/"BPTR" typedefs will not be ignored.

CED/S: This affects the line numbering scheme for warnings/errors.
CygnusEd
handles FormFeed
characters as newlines, so this switch makes sure that the line numbers given by ADtoHT are "CygnusEd-compatible".

1.5 notes

ADtoHT V1.01 Notes

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1) Expansion of "typedef struct" expressions:

The easiest way to explain this is by using an example. The <libraries/commodities.h> file defines the following:

```
typedef struct InputXpression IX;
```

If ADtoHT detects a reference to IX while converting AutoDoc files to hypertext, it will not make a link to the line containing the "typedef" statement, but it will create a link to the definition of "struct InputXpression", which is usually what you are really interested in.

This expansion is performed for all "typedef struct ... x;" statements, unless the command line switch NOEXPAND is used.

2) "Short" AutoDocs

There are two ways to reference another function: the "long" form, e.g. "exec.library/AllocMem", and the "short" form, e.g. "AllocMem". There are a few functions that have

more than one description, e.g. `OpenDevice()`, `AbortIO()` etc. To resolve a "short" AutoDoc, ADtoHT will first check the current file, then it will try libraries, devices, datatypes, libs and resources (in that order). For example: ADtoHT is processing `timer.doc` and finds a reference to "OpenDevice". It will first look for a `timer.device/OpenDevice` (which doesn't exist), then for a `#?.library/OpenDevice`, finding `exec.library/OpenDevice`.

3) Reading crossreference files

This option allows you to update your AutoDocs or add additional AutoDocs. Using XREFIN causes ADtoHT to read a crossreference file, which MUST have been written by ADtoHT (ADtoHT makes quite a few assumptions about the structure of this file). However, you should be careful when using this option: If your current Includes and AutoDocs do not have unresolved references to the new files (this is generally true for additional libraries from sources other than Commodore, e.g. `arp.library`, `req.library`, `toolmanager.library` etc) this option is safe to use. If you have new Includes, you should not use this option, unless you know that line numbers have not changed and that there are no new structures and typedefs. If you get a new AutoDoc file which replaces an existing one, you may use this option if there are no new functions within the new file.

Here's how to update existing or add new AutoDocs:

- 1) Create a directory that contains the new AutoDocs ONLY.
- 2) Create a directory that contains the new Includes ONLY.
- 3) Use ADtoHT on the above directories, reading the old crossreference file.
- 4) The directories created in steps 1) and 2) may now be deleted, as long as the include files are kept within the AmigaGuide search path.

1.6 cygnused

CygnusEd: an editor by CygnusSoft Software
published by ASDG Inc.

1.7 thanks

Thanks must go to...

Christine	for being such a great person
Hans Maurer	for many suggestions and ideas
Commodore	for V37++. Do we finally get RTG in V40?
SAS Institute	for the compiler

CygnusSoft Software for CygnusEd
Lots of people for great FD/PD/Shareware/Whatever software

1.8 history

- V0.0 (23.01.93) First release.
- V0.1 (03.02.93) Major bug fixed, XREF-File is now usable
Code reordering allows XREFIN and XREFOUT to be
the same file. Thanks to Hans Maurer for the
suggestion.
- V1.0 (11.03.93) Errorfile is now optional, as documented.
Thanks to Hans Maurer for reporting the bug.
First public release.
- V1.01 (30.03.93) Fixed typo that prevented reading directory trees
that are more than 2 levels deep.
Fixed bug that corrupted the memory list. Really
should use MungWall.
Fixed bug that prevented ADtoHT from reading it's
crossreference files.
Changed the required format of the first line in an
autodoc entry. May now be
xxx.yyy xxx.yyy or just
xxx.yyy
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