

## **Imagine Attribute Searcher**

COLLABORATORS

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# Contents

<b>1</b>	<b>Imagine Attribute Searcher</b>	<b>1</b>
1.1	Imagine Attribute Searcher . . . . .	1
1.2	An introduction to IAS . . . . .	1
1.3	Requirements for use . . . . .	2
1.4	Command Line Options . . . . .	2
1.5	homedir . . . . .	2
1.6	objname . . . . .	3
1.7	Command Line Options . . . . .	3
1.8	OptionC/U . . . . .	4
1.9	Option i . . . . .	4
1.10	Author Details . . . . .	5
1.11	Changes from 1.06 . . . . .	6
1.12	Output Explanation . . . . .	7

## Chapter 1

# Imagine Attribute Searcher

### 1.1 Imagine Attribute Searcher

Welcome to IAS, Imagine Attribute Searcher, Version 2.  
Revision 2.02, 31 March 1998

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Introduction

Changes from V 1.06

Requirements

Command Line Options

Output Explanation

Author

### 1.2 An introduction to IAS

This is IAS, the Imagine Attribute Searcher. It was written for a couple of reasons, the first being that I have a number of objects which have given me a deal of trouble setting up and rendering. This has been because they are either saved from the PC version of Imagine, which is not 100% compatible with the Amiga version, or the creator has used non standard textures which I don't have, or brushes which have not been included in the distribution archives.

The second reason for writing this program was to get myself back into programming again after a long break. IAS was written in 100% assembler. I admit that this is not the best way to create something like this program, and C etc. would have been easier to use, but I don't know C, and can't be bothered with it at the moment, so assembler it was...

What it does

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## Home Directory

```
IAS {*pbc(u)/i} ObjectName HomeDirectory
```

The Home Directory is where Imagine can be found on your system, for example, the Installer for Imagine version 4 will try to create a directory called Im40 in your Work: partition, therefore the Home Directory would be work:im40

If your user-startup creates an assign to the Imagine program you can also enter this as the Home Directory as Imagine: etc.

The Home Directory, or assign must not contain any spaces as these are used by IAS as command line separators, and IAS will fall over if you try to do something like that..

Text for the Home Directory does not need to end in a / as IAS will cope with this if you do not enter one...

To save you typing the Home Directory every time you use IAS you can use the \*i option to save these details to a pref file.

## 1.6 objname

```
IAS {*pbc(u)/i} ObjectName HomeDirectory
```

This is where you enter the name of the file you wish to test. The name must not contain any spaces, and the file must be in the current directory.

Also note that the file must be on a write enabled disk if you wish to use any of the convert options, therefore you can't convert a file on a CD ROM as these are write protected. Copy the file to RAM: first.

## 1.7 Command Line Options

```
IAS {*pbc(u)/i} ObjectName HomeDirectory
```

Here we have the heart of the IAS command line. The options must follow the name IAS and follow an asterisk (\*). If the \* is not present IAS will try to use the option flags as the filename to test!

The commands can be upper or lower case, and combined in any order with one or two exceptions..

u and c cannot be used together as this would ask IAS to convert a file to PC version and Amiga version at the same time. IAS will quit.

i is a special case and will perform only one action as detailed below.

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\*p - Open the printer for output.

This causes output from IAS to go to a connected printer instead of the screen. If the printer cannot be opened, an error message will be printed on the screen and IAS will quit.

\*b - Brush information.

This causes IAS to try to show more information about any brushes it finds such as the size of the IFF file in pixels, the number of colours used, and what Imagine uses the brush for. Please note that I only have the specs for BRS4 chunks and so the application data may not be correct for all brushes and should therefore be treated with caution.

\*c and \*u Convert files

\*i      Initialise Home Directory Pref file

So let's assume we have a file called Ship on df0: and we wish to convert it from a PC object, look at its brush sizes, and print the results. Assuming the Home Directory is "Imagine:" we can do the following;

```
cd df0:
```

```
IAS *cbp ship imagine:
```

## 1.8 OptionC/U

These options allow automatic conversion between PC and Amiga style objects.

The only difference between the two formats is that the Amiga uses "/" as a directory qualifier, whereas the PC uses "\". This means that we in the free world have "...Imagine/Textures", whilst those who are shackled to 1970's architecture have "...Imagine\Textures" etc

These characters only appear in texture or brush chunks of the object file, and IAS simply swaps them for the correct version depending on the selected command.

Command C - this will convert PC files to Amiga files

Command U - this will convert Amiga files to PC ones. The u comes from un-convert. I couldn't think of anything better.

If no conversion was necessary IAS will tell you so.

If the file was converted, IAS will attempt to save the file back to wherever it was loaded from. For this reason you cannot convert files straight from a CD-ROM as these are obviously write protected. Copy the file to RAM: first.

## 1.9 Option i

## Option I

This is an option to simplify the use of IAS. What it does is this; it allows you to enter the Home Directory and have the details saved to a file in your S directory so that it can be automatically used by IAS without you having to bother about it again.

This pref file can be changed at any time simply by using the \*i option again, and you can delete the file from the S directory if you so wish without risking causing any harm. The pref file is called "IAS.HD.Prefs".

However don't edit this disk file if you want to change it as it could easily cause problems with IAS (and your system) if you do. To change this file use the \*i option again.

How do I use it then?

Well, you do this;

IAS \*i HomeDirectory

This directory does not need to end in a / as IAS will automatically add one to the end of the text if needed.

IAS will not save the resulting data file to disk if the specified directory cannot be found. It will prompt you to try again. Check spelling of the name of the directory, and more importantly DO NOT put any spaces in the name of the directory, as IAS will treat these as the end of the command line and will therefore not find the directory you specify.

After processing the data IAS will quit immediately.

Now you don't need to enter the Home Directory on the command line (hurrah!) as IAS will automatically use the one you've just set up if nothing is found after the object name on the command line.

## 1.10 Author Details

This program was written by Oovis, contactable at

Strand Theatre  
Aldwych  
London  
WC2B 4LD  
ENGLAND

This is version 2 of IAS, subtitled The Post Disaster Rebuild.

I have been working on an update of IAS for a couple of weeks, and thought to myself that I'd better back everything up, so out came a fresh Zip disk, and a backup of my Workbench partition was duly created. However the time was approaching when I had to leave for work, so I switched my machine off and went to work.

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On my return I switched my Amiga on and the hard drive started making a nasty grinding noise, and the machine did not boot up. My heart began to flutter. I tried a soft reset. Nothing. I started to sweat. Eventually I saw something I've never seen before on my machine, the boot animation from ROM!. My hard drive had ground itself to pieces and died. All my work partition had gone. Everything! MIDI creations, animations, graphics, letters, paperwork, assembler sources, the lot.

So farewell then old 360Mb drive and hello 3Gb drive. I managed to get that up and running despite the fact it took me two hours to get the bloody thing partitioned and formatted. Is it just my imagination or are the Amiga operating system floppies flawed? The install disk kept telling me that it could not find the FastFileSystem on my original Workbench3.1 disk. I had to make a copy, and move the FFS from another floppy to that copy. Blimey it is a real labour of love trying to sort these buggers out....

This is therefore 90% the same as the original IAS, but more streamlined, as I had to rebuild it from memory, and have reduced some of the silly and wasteful coding I did in the original. The extra 10% is new routines added which you probably won't be able to see if you've used version 1.06 of IAS, except the new command line switch \*i.

If only one person finds this program useful I will be happy.

The source code, written with DevPacII, is available for £3. If you want a copy, please send a UK cheque, payable to D I Roberts to the above address, and I will dispatch one as soon as possible after receipt.

Please feel free to send me any bug reports. If you can, send me a brief description of what went wrong, along with the object you were testing with IAS, and I'll try to sort out what went wrong.

Thanks To...

Impulse inc. for Imagine

Dave Madge for the internet cruising

Frank Zappa, Andreas Vollenweider, Philip Glass and Pink Floyd for the musical interest whilst coding

Spoons and Duncan for keeping everything going while I'm not there

All trademarks and copyrights acknowledged.

## 1.11 Changes from 1.06

Changes from Version 1.06 (previous public release)

The search engine within IAS will now locate TXT1 chunks, which are possibly from version 1 of Imagine. I haven't found any objects from this version of Imagine which use brushes, so I can't get the BRS chunk format. If I do I'll release an updated IAS to take this into consideration.

\*I option added. This means you don't have to enter the Home Directory

---

every time you want to test an object. I don't know why I haven't done this earlier, lack of foresight maybe :-(

## 1.12 Output Explanation

When you run IAS, assuming there are no errors, you should see something like the following example;

```
IAS: Imagine Attribute Searcher. Version 2.01. © Oovis 1998.
See documentation for details. This program is Freeware.
Post disaster rebuild! This revision 24 March 1998.
```

Part Name	Texture/Brush applied	Test
SPHERE	textures/Bathtile(.itx)	OK
SPHERE	Wraps/bubble	BrOK

```
Textures Applied:    1  Missing Textures:    0
Brushes Applied:    1  Missing Brushes:    0
```

The Test column tells you if IAS has found the required texture, or not. If FAIL appears, and the 'applied' column contains \s you have a PC object, so you must convert it using \*c.

The (.itx) appended after the texture name means that IAS found that version on your hard disk. I think these are for the FP versions, but it may be that you don't need to worry about this bit.

BrOK means the file is a brush, and was found. If IAS cannot find a brush file then BrFL (Brush Fail) will appear here.

If you've used the \*B option then the following should appear for the brush info line;

SPHERE	Wraps/bubble	BrOK
Dimensions: 640 x 256 Colours: 16.7 Million		
Applied as: Colour Map		

### Notes

The 'Applied as' field relies on the data I have for BRS4 chunks, so should be treated carefully, it should be correct, but I can't be certain for objects from earlier/later versions of Imagine

The name buffer for loading textures and brushes is 50 characters long, and so you may find that brushes or textures with long assign paths may cause IAS to trip up. If I get complaints about this internal problem of IAS then I'll re-code these routines and buffers, and release an update of IAS as soon as possible.