

# **Angband**

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**COLLABORATORS**

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## Chapter 1

# Angband

### 1.1 Angband Documentation

Angband 2.9.0

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Introduction

Requirements

Installation

Settings

Inscriptions

Macros

The Borg

Variants

Links

Credits

Author

Written by Bablos, 11.04.2000

### 1.2 Introduction...

Introduction

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Angband is a single player role playing game. You choose a race and a class, then roll up statistics to describe your various abilities. Then

you're unleashed upon the dungeons of Angband, ultimately dropping to dungeon level 100 and trying your damndest to kill Morgoth, Lord of Darkness.

Along the way you encounter a myriad of creatures and uniques to hinder your progress, and objects and artifacts to help you achieve your goals.

Angband is loosely based on the works of JRR Tolkien, and had the game Rogue as an ancestor, hence the term 'roguelike' that is encountered in this guide and many other documents relating to Angband and it's variants.

Angband is constantly under development, and has been since it came out in its most basic form back in 1985.

## 1.3 Requirements...

Requirements

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Absolute Minimum

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You'll need at least this to run plain Angband.

- o Kickstart 1.3
- o 1.4 Mb of memory
- o 68000 - a faster processor is nice, but by no means necessary.

To run a borg compiled executable, you'll need at least 2Mb of free memory, and a fast processor would definitely be a bonus too.

Recommended Level

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This is what is recommend to get the most out of Angband:

- o Kickstart 3.0 or better
- o 2Mb of memory
- o 68020 or better.
- o A Hard drive.

Running Angband and it's variants under kickstart 1.3 is somewhat restricted. Mark doesn't plan to support 1.3 further, and the assumption will be made that everyone is using 2.04 or better. Don't worry though, the game will still work under 1.3, it'll just do so without the bells, whistles and shiny bits that Mark's put together for those of us that aren't living in the stone age...

Machines that Angband have been tested on;

- o A1200T, 68040/25, 603e/200, 48Mb FAST, 24xCDROM, 2.1Gb HD (Mark)
  - o A1200, 68060/50, 603e/200, 32Mb FAST, 5.04Gb HD (Bablos)
-

## 1.4 Installing Angband

Installing Angband

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Installing to Hard disc

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Couldn't be easier - just unpack the archive to the directory of your choice! Then it all depends on what kickstart your machine has;

o KS 2.0+

If you're lucky enough to have a kickstart 2.0 or better machine, then all you need to do to get Angband up and running is to run the program bin/Angband.

o KS 1.3

If you only have Kickstart 1.3, you'll also need to place a few commands into your S:startup-sequence file, or make a script file if you're feeling particularly adventurous and execute it as and when you intend to play Angband. Anyway, the commands required are;

```
assign Angband: DH1:Games/Angband
path add Angband:bin
```

Obviously, replace the DH1:Games/Angband with the path to the Angband directory on your system. Make sure that this new Angband: assignment points to the right place! It should point to the main directory containing all the file, data, apex, raw etc. directories.

Floppy installation

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What, no hard drive? Never mind. You can just about install Angband onto floppy discs, but it's a tight fit. Your friendly neighbourhood compression programs might help you out here.

First get two empty, formatted discs. Name the first one 'Angband', and call the second 'AMain', 'Winifred' or whatever takes your fancy. Once your archive has been extracted, copy the contents of the 'bin' directory to the 'AMain' disc. All the other bits go on the 'Angband' disc.

Problems fitting everything onto that second disc? Don't worry. All the files aren't essential. You can lose any of the sound files from xtra/sound, or the help files which are cunningly hidden in /help.

Practically everyone has a hard drive in this day and age, but if you're still running off floppies and having trouble persuading Angband to become floppy based, mail Mark and I'm sure he'd be more than happy to help.

Playing Angband

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If everything went well, and you successfully installed the game, then all you need do is run the bin/Angband executable. Angband automatically loads in the previously saved character, but you can change this if needs be using the -u command;

- o Angband -u<char>

So, if you wanted to load up Sharon the Half-Troll Warrior, you'd type the command Angband -uSharon. Simple, huh? Typing Angband -? will give you a list of the options available.

## 1.5 Settings

Settings

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Angband and it's variants need to know how to set themselves up, what with screenmode, graphics, sound, menus, windows - it's all user configurable. The configuration for this is read from the settings.prf file, which can be found in the /user directory. Below is a brief description of the various settings available and how they can help to make your gaming experience that little bit easier. All of the settings are optional, and have their own default settings.

- o ANGBAND.gfx  
Do you want graphics or just plain ASCII? Rogue old timers and users that find the graphics version a tad slow on 68000 machines may well benefit from setting this to Y. Set to N for ASCII, Y for 8x8 bitmap, E for 16x16 bitmap and A for autoscale. Check to see if the latter two options are available.
  - o ANGBAND.sound  
Do you want to include sound in the game? Floppy users will have no choice but to leave sounds out. Individual sounds can be removed, see the section of the documentation on sound for that. Set to Y or N.
  - o ANGBAND.version  
The version of the game that you're playing. A setting used by the AngMan program for determining the type of variant being played. Optional.
  - o SCREEN.blankmouse  
Blanks the mouse pointer as and when a key is pressed. Saves mouse pointer getting in the way whilst you're playing the game. Set to Y or N.
  - o SCREEN.menus  
Use the pull down menus or not? Set to Y or N.
  - o SCREEN.quick  
Quick graphics - can speed things up on 68020+/AGA machines. Set to Y/N.
  - o SCREEN.rtg  
Use RTG system for screen display? Set to Y or N.
  - o SCREEN.name  
If you've made a custom screen for Angband to display on, then you provide the name of the screen after this setting.
  - o SCREEN.mode  
Choose the screenmode that the Angband public screen will open under. Set to the mode value or ? to have a screenmode requester pop up.
-

- o SCREEN.width  
Width of the public screen in pixels. Minimum default of 640.
- o SCREEN.height  
Height of the public screen in pixels. Minimum default of 200.
- o SCREEN.depth  
Depth of the public screen in bitplanes.
- o SCREEN.overscan  
Screens overscan settings. Set to 1 for text size, 2 for graphics size, 3 for extreme size and 4 for maximum size.

#### Window Options

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Angband and it's variants has the choice of using up to eight different windows to display all of it's information. The use of MAIN is an absolute necessity, but the use of CHOICE, RECALL, MIRROR, WIN5TH, WIN6TH, WIN7TH and WIN8TH are all optional. They come into their own when used with high screen resolutions, as they can be used to constantly display information which you would otherwise have to access via options - keep a list of your inventory in one, a list of your equipment in another, a list of all past messages in a third - the choice is yours. What the window actually displays is set from within Angband itself via the options menu (= command). Their settings and positions can also be saved from the pull down menus in Angband too.

#### MAIN Window

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- o MAIN.use  
Should the main window be displayed? Should be set to Y at all times, otherwise you've no chance of seeing a single thing!
  - o MAIN.title  
The main windows title, to be displayed in the title bar if on a custom screen.
  - o MAIN.font  
Font to use with the main window. Defaults to topaz/8.
  - o MAIN.xpos  
X-axis offset for the main window from the top left of the screen. Set with number of pixels.
  - o MAIN.ypos  
Y-axis offset for the main window from the top left of the screen. Set with number of pixels.
  - o MAIN.cols  
Number of text columns that the main window has. Must be set to at least 80.
  - o MAIN.rows  
Number of text rows that the main window has. Must be set to at least 80.
-



- o MAIN.background  
Path to a file that is used as a background pattern for the main window. This option is only active in current versions of Angband and it's variants.

#### Other Windows

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In the example below, I've used the window CHOICE, but this can be substituted for any of the remaining windows as they're all defined in exactly the same way.

- o CHOICE.use  
Same as for MAIN. Should the window be used? Set to Y or N.
- o CHOICE.show  
Should the window be displayed? Set to Y or N.
- o CHOICE.title  
Same as for MAIN. The title of the window to be displayed.
- o CHOICE.font  
Same as for MAIN. The choice of font that will be used in the window.
- o CHOICE.scroll  
Should the window have a scroll bar? Set to Y or N.
- o CHOICE.xpos  
Same as for MAIN. X-axis offset from the topleft of the screen.
- o CHOICE.ypos  
Same as for MAIN. Y-axis offset from the topleft of the screen.
- o CHOICE.cols  
Same as for MAIN. Number of columns of text to display.
- o CHOICE.rows  
Same as for MAIN. Number of rows of text to display.
- o CHOICE.background  
Same as for MAIN. Choose a background pattern.

#### Borg Options

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A Borg is a piece of code that will play Angband all on it's own. If your current version of Angband has been compiled with a Borg included, then you will be able to use the following options;

- o BORG.turns  
How frequently the display is updated, in turns. Can be set to anything up to every 500 turns.
  - o BORG.keycheck  
How the user can interrupt the Borgs game. Can be set to delayed, normal or joybutton.
-

## 1.6 Incriptions

### Inscriptions

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Inscriptions are a pretty useful part of Angband and it's variants, so long as you know how to make the most of them. Once you've been playing the game for a bit, you'll be used to the standard inscriptions that objects have - telling you when they're cursed or uncursed, your pseudo-id kicking in to announce that an object is terrible, worthless, average, good, excellent or special. Shopkeepers will inscribe items with any special offers they might have going. You might even get imaginative yourself and decide that Brian the Broadsword should have his name emblazoned across his blade. Well, written in braces next to his inventory slot!

### Protecting Items

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Inscriptions can help you protect your items from any inadvertent keypresses your impatient fingers may be capable of. Once you become adept at the controls of Angband, and could guide a character with your eyes closed, or in your sleep, you'll soon discover that it's all too easy to destroy, drop, activate, fire, etc that one item that you just can't do without. How do you get around this? Use the following inscription;

o !X where X is the command to protect the item from.

So, if you inscribe an item with !d, you'll be asked if you really do want to drop that particular object. If one check isn't enough, you can add multiple inscriptions of the same type - inscribing !d!d!d will ask you about dropping the object three times over. You may think it overkill, but you don't want to go dropping plenty of things in the lower depths of the dungeons of Angband.

You can combine the !X commands - if you inscribe !d!k, then you'll be asked again if you try to either drop or destroy the item. If you need FULL protection, you can use !\*, which will ask for verification no matter which command is used upon the item in question.

Roguelike Keyset Users - you'll have to inscribe the original commands, not the roguelike ones, unfortunately.

### Numbering Items

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Inscriptions of the following form are incredibly useful when combined with macros. They assign a number to a particular item, thus;

o @n where n is a number between 0 and 9.

What use is this? Well, say you have a particular wand or staff that you use all the time. Instead of having to check your inventory to see which slot it's in when you want to use it, you could inscribe it with @1 which would let you select it by using the number 1 in with your command. You can also restrict what commands use the numbered item;

o @Xn where n is a number between 0 and 9, and X is a command.

---

This will cause the item to only be referred to as this particular number by the command X. A fine example of this is the one macro that's automatically defined in all Angband variants - if you inscribe your main weapon as @0, and your shovel, pick or secondary weapon as @0 also, the command X will swap between these two items for you.

## 1.7 Macros

### Macros & Keymaps

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Macros are mappings from a single logical keypress to a sequence of keypresses, allowing you to use special keys on the keyboard such as function keys or the keypad, to automate repetitive multi-keypress commands that you use alot.

The macro system has changed between Angband 2.8.2 and 2.8.3, and some older variants are still based on the 2.8.2 code. I shall concentrate on the 2.8.3 code here, and direct users of the older system to the file help/command.txt, which should contain details on the old macro system.

Macro and keymap definitons are kept in what are called user pref files, which can be found in the user/ directory, funnily enough. Specific .prf files are loaded in with each character - if you run a human priest called Kenneth, then the files human.prf, priest.prf and Kenneth.prf would all be loaded. You can thus have similar macros and keymaps together - spell macros could be in priest.prf, and macros you wanted humans to have in general could go in human.prf, and any specific to just this character - say to activate a particularly good item they have - would go in Kenneth.prf.

So, how do you define macros and keymaps? Both of them need an action;

- o A:<action> - this is the definition of the action the keymap/macro will expand to.

To define a macro to perform the above action you would follow the action definiton line with;

- o P:<str> - str is the sequence of keypresses that would perform the action.

If, however, you wanted to define the above action as a keymap, then you'd follow it's definition with the line;

- o C:<mode>:<keyst> - mode is the keymap mode where the keymap will take effect (0 for original and 1 for roguelike) and keyst is a string that translates to one key. Note that Ctrl-<char> is considered one key, but function keys aren't.

So, a macro is defined by;

- o A:<action>  
P:<str>

and a keymap by;

- o A:<action>
- C:<mode>:<keyst>

Whenever macros need to contain special characters, they are represented in a specific way, thus;

- o \xHH - character number HH in hexadecimal
- o \NNN - character number NNN in octal
- o \e - ESC
- o \n - newline
- o \r - RETURN
- o \s - space
- o \ - backslash
- o \^ - caret
- o ^X - code for any control key "ctrl-X"

So, what's the difference between the two? Why choose a macro definition over a keymap definition, or vice versa? There are three main differences;

- o Keymaps don't get executed in stores, macros do. Imagine having 'u' set up as a macro, then trying to sell item 'u' in your inventory - as you hit u, up sprouts your macro string! You can't sell item u!
- o Keymaps are defined as one key, but macros can be triggered by an arbitrary number of keys. As function keys are considered more than one keypress, anything you bind to a function key has to be a macro.
- o Keymaps can be different depending on the mode - original or roguelike. Macros use original commands.

Examples; well, ones that I use..

Activate light source - this is a macro which uses F1 for when I have the Phial of Galadriel. It can't be defined as a keymap as the code for the F1 key isn't a single key. Not that it stops anyone else using another key, or course!

- o A:\e\eAf\e
- P:\x9B0~

Kill top item on the floor - I played the 'bands for SO long without knowing how useful this little one could be. If you've got a pile of stuff on the floor, and you know the top three items are useless, just stand on it and hammer the key three times, and they're destroyed. Very useful for going through good sized treasure hoardes.

Macro;

- o A:\e\e^d-yy\r
- P:`

Keymap;

- o A:\e\e^d-yy\r
  - C:0:`
-

I use a keymap in the above example, as a) it's simpler, and b) you don't have to rely on the ` key in stores whatsoever. I map it to the ` key as I use the roguelike command set, and so I can hit it with my left hand whilst controlling the character with my right. If you use the original command set, and you use the keypad, you might find it easier to maybe set up F10 as the macro. Why all the \e in the commands? It's to flush the output buffer of any text it might display, and to get rid of any -more- messages. Some people use \s too, as it performs the same task, so long as you have quick messages activated in your options.

Example using numbered inscriptions;

Say you have a Rod of Trap Detection inscribed with @z1, and a Rod of Detect Doors and Stairs inscribed with @z2. You could combine the activation of the two by pressing F1 by setting up the macro;

```
o A:\e\ea1\ea2
  P:\x9B0~
```

\e\e will clear the output buffer of any existing messages that have yet to be displayed, a1 will activate rod 1 (trap detection, irrespective of it's location in the inventory), \e will clear the result of the activation of rod 1, a2 will activate rod 2 (doors and stairs). Easy, huh?

## 1.8 Variants

Variants

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Sure, Angband is a great game, but there are people out there who want more. People who want to personalise the game, make their own alterations, or take it in a completely new direction. If they're lucky enough to be familiar with programming C, then all they need do is alter the source code and a new variant is born.

What follows is an exhaustive list of the variants available. Unfortunately (fortunately in some cases) they're not all available for the Amiga. Those that are can be found in bold type. Check out the links section of the documentation if you'd like to know more about any of the variants below.

- o Angband/64 - lots more traps, bigger dungeons, reformed spell system.
  - o AngbandTk - Angband with a swanky graphical system written in TCL 8.0.
  - o Bangband - Now defunct variant letting the player be dragons and monks.
  - o Cathband - Another oldie, aiming to balance all classes.
  - o Cthangband - Zangband variant, replacing Zangband's Zelazny world with that of H.P. Lovecraft's Cthulhu mythos.
  - o Drangband - Ancient variant allowing various dragons as players.
  - o DvEband - Angband with Oangband influences.
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- o Fangband - First variant to include targetting code for bows!
- o Goingband - Lots of patches written by various people.
- o GSNband - Zangband variant, removing all Zelazny material in order to get back to the Tolkien feel of the game.
- o GW-Angband - New magic system, balanced classes.
- o Ingband - Ironman Angband - dive 'til you drop!
- o Kamband - Kangband variant - religions, new races, alchemy, new spells.
- o Kangband - New classes, bigger town, wilderness area around the town.
- o KangbandTk - Kangband with the TCL 8.0 graphical interface.
- o Langband - Work in progress - very configurable.
- o Mangband - Multiplayer Angband, played via a TCP connection.
- o Oangband - Opinion Angband - changes right across the board.
- o Pangband - Plot based Angband, uses RPL scripts to describe the plot.
- o PernAngband - Zangband variant based on the novels on Anne McCaffrey.
- o Psiband - Angband with psionic powers.
- o Pziband - Zangband with psionicists.
- o QuestAngband - Variant based around a quest system.
- o Rangband - Realistic Angband. Reality steps into Angband.
- o Sangband - Skills based Angband. Develop various skills to advance.
- o SBFband - Steve Fisher's own version of Zangband.
- o Tangband - TeamAngband, taking the traditional RPG approach to adventure.
- o Yin-Yangband - Various changes to classes, races etc.
- o Zangband - Most played game, even moreso than Ang. Changes galore!
- o ZangbandTk - Zangband with the TCL 8.0 graphical interface.

## 1.9 Links

Links

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Here are a list of useful Angband related websites, along with a blatant plug for my own site!

- o Newsgroup
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rec.games.roguelike.angband

- o Official Angband Page  
<http://www.phial.com/angband>
- o Bablos' Angband Variants Page  
<http://wkweb5.cableinet.co.uk/bablos/angband>
- o Development FTP Site  
<ftp://export.andrew.cmu.edu/angband>
- o Roguelike News  
<http://www.skoardy.demon.co.uk/rlnews>

#### Variant Homepages

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- o Angband/64  
<http://www.sx4all.nl/~thunder7/angband>
  - o AngbandTk  
<http://www.mypage.direct.ca/d/dbaker/angbandtk.html>
  - o Cthangband  
<http://cthangband.8m.com>
  - o Drangband  
<http://www.yikesstation.freemove.co.uk/drang/drang.htm>
  - o @ (b) GSNband  
<http://ifg.amu.edu.pl/~naskrent>
  - o GW-Angband  
<http://www.kellnet.com/woledge/angband.html>
  - o Ingband  
<http://www.sucs.swan.ac.uk/~element/ingband>
  - o Mangband  
<http://www.umar.edu/~keldon/mangband>
  - o Oangband  
[http://home.sprintmail.com/~leon2m/Oangband\\_Development\\_Site.htm](http://home.sprintmail.com/~leon2m/Oangband_Development_Site.htm)
  - o Pangband  
<http://www.umar.edu/~keldon/pangband>
  - o PernAngband  
<http://perso.infonie.fr/dark.godZangband>
  - o Quest Angband  
<http://pet.softjoys.ru/~qa>
  - o Sangband  
<http://www.fragment.com/~jl8e/sangband>
  - o SBFband
-

[http://www.cs.unr.edu/~fisher\\_s/sbfband.html](http://www.cs.unr.edu/~fisher_s/sbfband.html)

- o Zangband  
<http://thangorodrim.angband.org>

## 1.10 History

Credits

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- o Bablos <bablos@cableinet.co.uk>  
Me. I maintain all of the variants, thanks to Mark's excellent help. I wrote this documentation (well, the bits that I didn't rip off Mark's initial efforts!), I upload the variant archives to Aminet, I beta test both 0x0 and PPC versions, and I run the Angband Variants Website - I'd best not plug it again in these docs, as Mark will want to hit me with a large stick...
- o Mark Howson <markh@angband.org>  
Mark maintains Kangband. Mark took on development of the Amiga code from Lars' 2.7.9v6 Angband code, and things have just grown exponentially since then. In amongst the Amiga ports, he also manages to be the official maintainer of Kangband, believe it or not!
- o Rob Ruehlmann <rr9@angband.org>  
Rob is the current maintainer of Angband. See the official website at <http://www.phial.com/angband> for more information on the history and current status of Angband.

## 1.11 Contact

Contact Information

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Got something to say? Like to buy Mark a pint or a Mars Bar for his wonderful work? Head full of suggestions, questions, comments, criticism, improvements or insults? If so, Mark wants to hear it.

Start up your favourite email client and drop him a line at;

- o [markh@angband.org](mailto:markh@angband.org)

Mark wants people to understand that he didn't actually write any of the ports available, he just converts them for our use. Any bugs that are obviously specific to the code and not the Amiga version should be directed towards the original author via email or the newsgroup.

Should you have the need to contact my good self, be it suggestions for additions to the documentation, questions regarding the Aminet uploads, or adoration of my web page, you can find me at;



o bablos@cableinet.co.uk

## 1.12 The Borg

The Borg

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The Borg is an automatic Angband player, ie. the computer will play Angband as if it was a human player, making decisions on its own.

- o The borg will not be getting support - Mark says "I'll fix the Amiga code bugs, and I'll look into fixing main source code ones (or report them to Ben), but I don't want to get into debugging the thing."
- o The borg needs at least 2Mb of memory, and at least a 68020 to be usable.

What follows is a list of the basic commands for the borg. Should you want to know more, I suggest you aim your queries at the borg source code.

Use Ctrl-Z to activate the borg, reply yes to the warning messages, and then press 'z' to start the borg running. It will stop when you press a key, so you can play the game yourself for a while and then let the borg takeover.

- o Note - You can't have graphics & the borg at the same time - you must turn graphics off first. If you can, open up a couple of extra windows for the borg messages/status.

The rest of the borg commands are documented internally - type Ctrl-Z ? for a simple summary. But I will mention here the 'f' command, which can be used to save the borg whenever it changes level or depth. Use 'fs' or 'fd'.

There are a great many more commands than this - refer to 'borg9.c' for a more thorough explanation. If you can't read C, get in touch with Mark.

Oh, and the borg does seem to crash occasionally. I've left it running overnight without problems, but it may hang once or twice. You have been warned - don't leave anything really important unsaved in the background. I'm sorry about this, but I think this is a borg bug, rather than an Amiga one. And whatever it is, it'll be VERY hard to find. Don't let that put you off - it seems to be fairly stable. More so than some Amiga programs I could mention!