

# **GetLastAlert**

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<b>COLLABORATORS</b>
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	<i>TITLE :</i> GetLastAlert		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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## Chapter 1

# GetLastAlert

### 1.1 GetLastAlert Version 1.1

David Gerber  
presents  
GetLastAlert Version 1.1 (5-1-96)  
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- 1 Introduction
- 2 Features
- 3 Installation
- 4 How to use it
- 5 Distribution
- 6 History
- 7 Future releases/bugs
- 8 The Guru list
- 9 Contact the author
- 10 Greetings

Sorry for the bad spelling. English isn't my native language ;-)  
I'm doing my best to be understood.

### 1.2 Introducing GetLastAlert

A little story

In december 1994, I bought the last CD\$^3\$\$^2\$ in stock (in Switzerland the Amiga is not very present). I was impressed by the powerful AGA chipset and the amazing speed (compared to my unexpanded A500). I was looking for a SX-1 but I didn't find it here. Fortunately a friend bought me one from UK (thanks Nadia :-) after that, I made an Amiga keyboard (I HATE PC keyboards) with an A500 keyboard and an A2000 keyboard case (If you are interested, contact me and I will do a complete document about that). I plugged drives and installed a 540Mb Hard Disk, I've bought 4mb FAST RAM and did some hacks and more...

I've got the WorkBench 3.0 (surprisingly, it was hard to find) and I found a problem in the Kickstart.

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A problem ?

Yes man! A problem (it's not really a bug). In fact, when a program crashes (frequent with bad coded Kick 1.2/3 applications) and the system is not able to display the Guru in a requester, the power light blink just like a normal Amiga (A500, A600, A1200, etc...), the machine resets and... nothing! No Guru is displayed. It is very annoying because you can't know why the machine crashed (it's very important for me).

Why does this happen ?

There are some hypothesis. It's maybe due to the fact that a CD\$^3\$\$^2\$ is considered as a game machine (the first game machine with a multitasking system!) and Commodore probably wouldn't confuse a player (lamer) with a Guru meditation who can upset him (or her but it's rare). Or it's also because the CD\$^3\$\$^2\$ hasn't got a mouse as standard. Or it's maybe really a bug due to the CD\$^3\$\$^2\$ intro screen (try to find the virus LAMER EXTERMINATOR. It will crash the machine, and you will find a A1200 intro screen with the animated disk!!! I'm trying to understand how it works).

Is there a solution ?

Of course it is. I'm not writing all this guide for nothing :-)  
The solution is: GetLastAlert by David Gerber (tatan!). This program will simply show you the last error message (Guru number and address). Simple but very useful (at least for me).

## 1.3 Amazing features of GetLastAlert

Here are some features of GetLastAlert:

- Show Guru number and address of the error
  - Very nice Guru style presentation
  - Very easy to use (with the mouse buttons)
  - Compatible CLI or WorkBench
  - Only active if a Guru happened (useful for startup-sequence)
  - 100% hard coded in assembly language (it's of course optimized)
  - Very little (only 1308 bytes!)
  - Completely free (mailware program)
  - Developed entirely on a CD\$^3\$\$^2\$ (that's rare)
  - Coded by me :-)
-

GetLastAlert has been successfully tested on the following machines:

A500 (Kickstart 1.3, 512kb CHIP, 512kb FAST)  
CD\$^3\$^2\$ (Kickstart 3.1, 2mb CHIP, 4mb FAST)

#### A BIT OF TECHNIQUE

GetLastAlert is entirely programmed in assembly language and doesn't use any include source (anyway, I don't have them). Because the lack of documentation about the 2.0-3.1 systems, I use some strange reset vectors. Fortunately, they are correctly handled and are safe.

## 1.4 Installing GetLastAlert

Use the supplied Installer script. You need the Commodore Installer program (not supplied with the package) in one of your path.

This script will do:

- Copy GetLastAlert to a drawer (default WBStartup)
- Copy GetLastAlert.guide to a drawer (default Documents)
- Copy either the normal icons or the MagicWB icons

Note: Placing GetLastAlert in your WBStartup is highly recommended because it will show you the last alert after every startup.

## 1.5 Using GetLastAlert

After the machine crashes, boot your system and launch GetLastAlert by:

CLI Just type "GetLastAlert"

WORKBENCH Double click on the GetLastAlert icon

Forget all that above if GetLastAlert is in your WBStartup drawer.

Now, a Guru style screen should appear (nice eh? :-). There is the Guru number and the address where the error occurred. If you don't understand these terms, click here for a short explanation. To exit, click the left mouse button. To have an "about" screen, click the right mouse button. That's all you need to use GetLastAlert.

NOTE: GetLastAlert opens its Guru request only if a DeadEnd alert occurred before. So, if you put GetLastAlert in your startup-sequence, it won't irritate you because it will only appear if you need it.

If you reboot the machine, GetLastAlert will not emerge again.

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## 1.6 Future releases and bugs

The future releases of GetLastAlert depend of you. Please support this program. I just ask for a little e-mail. Even if you don't like this program please let me know. What could be better, etc...

Things to implements:

- A complete Guru analyser (give the problem and the solution, you don't have to find the explanation of the Guru number)
- An Intuition window telling the last alert

Known bugs:

The intuition function DisplayAlert() turn off the multitasking of the Amiga. Although the screen look nice, this is not really good since the Workbench can't continue (ie loading patterns). The answer is to implement an Intuition window. Will soon be fixed.

PointerX doesn't work well if you use the About screen. Solving the first problem may also solve this one.

## 1.7 Distribution

GetLastAlert can be freely distributed under the following conditions:

- GetLastAlert must be kept with its documentation  
GetLastAlert.guide
- No profit must be made with this program. The price of distribution must not exceed the cost of the media storage.
- GetLastAlert don't have to be modified in any way.

If you decide to distribute GetLastAlert in any PD-DISK or CD, I'll be grateful if you contact me (a simple e-mail).

GetLastAlert is a mailware program. It has been correctly programmed and shouldn't cause dataloses or failures but remember that you use it at your own risk!

## 1.8 Versions of GetLastAlert

Releases of GetLastAlert:

Version 1.0 (16-11-95): \*First release of GetLastAlert.

Version 1.1 (05-01-96): \*Added STARTPRI and DONOTWAIT in the

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tooltypes of the icon.  
\*Now GetLastAlert don't rerun after a second reset. I think it's better for harddrive usage.  
\*Removed a bug wich caused sometimes GetLastAlert to do a guru itself :-(  
\*Added a WB 2.0 version string. Now you can check the version of GetLastAlert by typing "version GetLastAlert".  
\*Removed a nasty bug which only appears in the shell. The error code was the address of the dos.library.  
\*Removed a spelling mistake: "it's documentation" instead of "its documentation".  
\*Added an Installer script for instalation  
\*Two news MagicWB icons (that's nice!)

## 1.9 David Gerber

Remember:      GetLastAlert is a malware program.

Send:          mails, e-mails, bug reports, suggestions, mods, questions, moral support, programs, postcards and includes!

Others creations: ZapDisk (the fastest disk eraser) Aminet disk/misc  
CD32\_PSU (PC PSU for the CD\$^3\$\$^2\$) Aminet hard/misc  
Very good HARCORE mods available at:  
<http://eig.unige.ch/~gerber/welcome.html>  
And more things are coming...

Contact methods: 1.e-mail preferably  
2.Web Server  
3.Snail Mail  
4.IRC

Mailing list:    If you want to get some e-mails about my products, new versions and others cool things, send an e-mail with the words subscribe gerber to my mail server [gerber@eig.unige.ch](mailto:gerber@eig.unige.ch) you will get a e-mail with a subscription confirmation and unsubscription instructions. I hope you will enjoy the service.

Special support:  
If anyone can send me some includes files (and the autodocs) I will send every new program I will made to him. If you do so, the next programs will have GadTools gadgets, OS 2.0+ functions and much much more power.

Thanks

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## 1.10 David Gerber ??? Who is it?

For those who don't know me, I'm born in Switzerland the 6 of April 1978. I live in Geneva and I'm studying engineering. I started computing with an old MSX-2 and with some old PC's. When I was about 12 years old, I bought an Amiga 500 and I discovered how great this machine was. Now, I've got an expanded CD\$^3\$\$^2\$. I'll probably set up a BBS named Strike BBS (it is under testing actually).

Likes: using my Amiga (programming, making HARDCORE musics, doing hacks, etc...), getting (e)mails, swimming, diving, listening HARDCORE at full volume, calling some BBS, the Coca-Cola, the motorbikes and the pretty girls with blue eyes and blond hair.

Dislikes: PCs (I HATE PCs!!!!!! Amiga is 10 years beyond it!!)

If you need some help or want to know me more, e-mail me.

Remember: ONLY AMIGA MAKES IT POSSIBLE!!!

## 1.11 Greetings

Greetings to:

- Juan for giving me another Amiga 500. What are you doing with your fucking PC? It's only a 486? You need to buy a P7 and Windoze 96 plus ten adds-on and a hundred of bugs!
- BAP a loyal Amiga user. Alors, ça va ta CD\$^3\$\$^2\$?
- Axl for his Action Replay MKIII (a very good cartridge)
- Coca-Cola
- ID&T
- Motorola
- Commodore (Thank you for supporting the Amiga. It's sad that you have to produce fucking PC's now)
- Escom for supporting the Amiga. All the Amiga community is with you.
- And all of the people who send me e-mails, bug reports and help.

Fuck's to:

- Bill Gates for producing the stupide Windoze.
  - Intel for stupide CPU's with poor efficiency.
-

- THI for beeing stupid.
- All the fucking people who think that the Amiga is only a game machine (Switzerland is a bad country for computers)

## 1.12 e-mail

You'll get a fast reply of me (no more than one week)

gerber@eig.unige.ch

I answer to ALL the e-mails I get!

## 1.13 Snail Mail

David Gerber  
15 chemin de la Mairie  
1223 Cologny  
Genève  
Suisse

## 1.14 World Wide Web Server

I've got my Web Server. You will find Amiga things here and hardcore mods.

<http://eig.unige.ch/~gerber/welcome.html>

This Web site is of course entirelyly done on my Amiga.

## 1.15 About the Guru requesters

When the Amiga crashes, it give you some informations of what happened. There are two informations: the Guru number and the address of the error. The Guru number give you the type of the error. See The Guru list for an explanation of the principal errors. The address of the error is the address of where the error occured. Here is a short descriptions of the memory areas:

Range	Memory type
\$000000-\$1ffffff	CHIP RAM
\$200000-\$9ffffff	FAST RAM
\$c00000-\$c7ffff	SLOW RAM
\$f00000-\$ffffff	KICKSTART ROM

## 1.16 The most important Guru Alerts

### Alert type:

8xxxxxxx = Dead End Alert  
0xxxxxxx = Recovery Alert (not handled by GetLastAlert)

### General alerts:

xxx1xxxx = not enough memory  
xxx2xxxx = library destroyed  
xxx3xxxx = library can't be opened  
xxx4xxxx = library can't be used  
xxx5xxxx = resource can't be opened  
xxx6xxxx = I/O error  
xxx7xxxx = I/O not present

### 68000 alerts:

xxxxxxx2 = data error or address error  
xxxxxxx3 = illegal addressing mode  
xxxxxxx4 = illegal instruction  
xxxxxxx5 = division by zero  
xxxxxxx6 = instruction CHK  
xxxxxxx7 = instruction TRAPV  
xxxxxxx8 = privilege violation  
xxxxxxx9 = mode single-step  
xxxxxxxA = line A emulator (1010)  
xxxxxxxB = line F emulator (1111)

### exec.library:

81000001 = 68000 exception vector checksum  
81000002 = execbase checksum  
81000003 = library checksum failure  
81000004 = no memory to make library  
81000005 = corrupted memory list  
81000006 = no memory for interrupt servers  
81000007 = InitStruct() of an APRT-source

### graphics.library:

82001001 = copper display list out of memory  
82001002 = copper instructions list out of memory  
82000003 = copper list overload  
82000004 = copper intermediate list overload  
82001005 = copper list head out of memory  
82001006 = long frame out of memory  
82001007 = short frame out of memory  
82001008 = flood fill out of memory  
82001009 = no memory for TmpRas for text  
82001010 = BltBitMap out of memory

### intuition.library:

84000001 = unknown gadget type  
84010002 = no memory for create port  
84010003 = item plane allocation, no memory  
84010004 = sub allocation out of memory  
84010005 = plane allocation out of memory  
84000006 = item box top smaller than RelZero  
84010007 = no memory for open screen

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84010008 = no memory for open screen raster allocation
84000009 = open sys screen of unknown type
8401000a = no memory for adding SW gadgets
8401000b = no memory for open window
8400000c = entering Intuition: bad state return
8400000d = bad message received by Intuition DCP
8400000e = wired echo causing incomprehension
8400000f = console device couldn't be opened
```

#### `dos.library:`

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87010001 = no memory at startup
87000002 = EndTask didn't end
87000003 = packet failure
87000004 = unexpected packet received
87000005 = Freevec failed
87000006 = disk block sequence error
87000007 = bitmap corrupt
87000008 = key already free
87000009 = invalide checksum
8700000a = disk error
8700000b = key out of range
8700000c = bad overlay
```

If you find another Guru and want a description of it, contact me and I will try to help you.

## 1.17 MailWare

A mailware program is like a freeware program. If you use this program, you must send me a mail or a postcard.

## 1.18 help

Who did press the "HELP"? Using AmigaGuide documentation is very easy so you don't need help!

## 1.19 Internet Relay Chat

A week ago, I found a good way to have fun when I'm sacked from a lesson: IRC. You will probably find me on the #amiga channel with the Zapek nickname. Otherwise, I'm on #france or #geneva.