

## **ERRORS**

<b>COLLABORATORS</b>
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	<i>TITLE :</i>	
	ERRORS	
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>
WRITTEN BY		January 13, 2023
		<i>SIGNATURE</i>

<b>REVISION HISTORY</b>
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NUMBER	DATE	DESCRIPTION	NAME

# Contents

<b>1</b>	<b>ERRORS</b>	<b>1</b>
1.1	main . . . . .	1
1.2	Fail Codes . . . . .	1
1.3	AmigaDOS Errors . . . . .	2
1.4	Guru Meditation . . . . .	3
1.5	author . . . . .	6

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## Chapter 1

# ERRORS

### 1.1 main

Guide to AmigaOS Fail Codes, Errors  
and Guru Mediation Numbers

1. Fail Codes
2. AmigaDOS Errors
3. Guru Mediation
4. About the Author

### 1.2 Fail Codes

Fail Codes

When an Amiga program finishes, it returns an exit code to tell AmigaOS whether that program has finished ok or not. The number returned is based on 4 levels:

- 0 - Program finished ok
- 5 - Program finished with a warning
- 10 - Program finished with an error
- 20 - Program failed to finish

You can have numbers inbetween or greater if you wish but in most cases it uses the above.

You can test for the warning using the IF statement in AmigaDOS

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and the keyword WARN, ERROR or FAIL. For example,

```

PROG1
IF FAIL
  Echo "Program failed"
  Quit
ENDIF
IF ERROR
  Echo "Program finished with an error"
  Quit
ENDIF
IF WARN
  Echo "Program gave a warning"
  Quit
ENDIF
Echo "Program ok"

```

Please note that you must check higher failures before lower failures.

If you run a script such as startup-sequence, you want to ensure all commands are executed even when one program fails for one reason or another. To do this, use the FAILAT command to specify the failure level so if it reaches that level, execution stops. A level of 21 would ensure all commands are run whether or not any of them fail during execution.

### 1.3 AmigaDOS Errors

Most AmigaDOS programs run ok but if for some reason comes across a condition when it will fail, it will return an AmigaDOS error and display it on the screen and in most cases with an explanation.

Error Code	Description
103	Not enough memory available
105	Process table full (too many programs loaded)
114	Bad Template
115	Bad Number
116	Required Argument missing
117	Value after keyword missing
118	Wrong number of arguments
119	Unmatched quotes
120	Argument line invalid or too long
121	File is not an executable
122	Invalid resident library during load
202	Object in use (running)
203	Object already exists
204	Directory not found
205	Object not found
206	Invalid Window description (Con:)
209	Packet request type unknown
210	Stream name component invalid
211	Invalid object lock
212	Object not of required type

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213	Disk not validated
214	Disk write-protected
215	Rename across devices attempted
216	Directory not empty
217	Too many levels
218	Device (or volume) not mounted
219	Seek failure
220	Comment too big
221	Disk full
222	File is protected from deletion
223	File is write protected
224	File is read protected
225	Not a valid DOS disk
226	No disk in drive
232	No more entries in directory
233	Object is soft link
234	Object is linked
235	Bad loadfile hunk (corrupt file)
236	Function not implemented
240	Record not locked
241	Record lock collision
242	Record lock timeout
243	Record unlock error

If a command fails you can type WHY to explain why a command failed if there is an explanation. Also typing FAULT and one or more numbers will display the error description.

## 1.4 Guru Meditation

A Guru Meditation or Software Failure alert message appears when a program fails or tries to write or read an invalid area of memory and thus causing the Amiga to Crash.

Typical faults can be programs writing to memory they do not own or have access to. Programs that trash memory or corrupt memory lists. Programs using up too much memory. Programs that use machine code that is not valid on an Amiga or use the wrong version of program tailored to a specific processor on a different processor etc.

Format of a Guru number:

```
SSGGEEEE AAAAAAAA
```

Where:

SS is a Subsystem ID  
GG is a General Error  
EEEE is a Specific Error

AAAAAAA is the Address of the Task

The numbers will be displayed in Hexadecimal (0-9,A-F).

Subsystem ID Code

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00 CPU Trap

#### Libraries

01 Exec  
02 Graphics  
03 Layers  
04 Intuition  
05 Math  
06 Clist  
07 DOS  
08 RAM  
09 Icon  
0A Expansion

#### Devices

10 Audio  
11 Console  
12 Gameport  
13 Keyboard  
14 Trackdisk  
15 Timer

#### Resource

20 CIA  
21 Disk  
22 Misc

#### Other

30 Bootstrap  
31 Workbench  
32 Diskcopy

If the first digit of the Subsystem ID is greater than 3 then it is an unrecoverable error. Subtract 8 from ID to get Subsystem ID.

#### General Errors

01 Insufficient memory  
02 MakeLibrary error  
03 OpenLibrary error  
04 OpenDevice error  
05 OpenResource error  
06 I/O Error  
07 No Signal

#### Specific Alert Codes

#### Exec Library

81000001 68000 exception vector checksum  
81000002 ExecBase checksum  
81000003 Library checksum error  
81000004 No memory to make library

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81000005 Corrupted memory list  
81000006 No memory for interrupt servers  
81000007 InitAPtr  
81000008 Semaphore corrupt  
81000009 Free twice  
8100000A Bogus exception

#### Graphics Library

82010001 No memory for copper display list  
82010002 No memory for copper instruction list  
82000003 Copper list overload  
82000004 Copper intermediate list overload  
82010005 No memory for copper list head  
82010006 Long frame, no memory  
82010007 Short frame, no memory  
82010008 No memory for flood fill  
82010009 Text, no memory for TmpRas  
8201000A No memory for BltBitMap  
8201000B Region memory  
82010030 MakeVPort  
82011234 GfxNoLCM

#### Layers Library

83010001 Layers No Memory

#### Intuition Library

84000001 Unknown gadget type  
04000001 Recoverable version of previous message  
84010002 No memory to create port  
84010003 Item plane allocation, no memory  
84010004 Sub allocation, no memory  
84010005 Plane allocation, no memory  
84010006 Item box top less than RelZero  
84010007 No memory to open screen  
84010008 Open screen, raster allocation, no memory  
84010009 Open sys screen, unknown type  
8401000A Add SW gadgets, no memory  
8401000B No memory to open window  
8400000C Bad State Return entering intuition  
8400000D Bad message received by IDCMP  
8400000E Weird message causing incomprehension  
8400000F Couldn't open the console device

#### DOS Library

07010001 No memory at startup  
07000002 EndTask didn't  
07000003 Opkt failure  
07000004 Unexpected packet received  
07000005 Freevec failed  
07000006 Disk block sequence error  
07000007 Bitmap corrupt  
07000008 Key already free  
07000009 Invalid checksum

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0700000A Disk Error  
0700000B Key out of range  
0700000C Bad overlay

#### RAM Library

08000001 Bad segment list

#### Expansion Library

0A000001 Bad Expansion Free

#### Trackdisk Device

14000001 Calibrate: seek error  
14000002 Delay: Error on time wait

#### Timer Device

15000001 Bad request  
15000002 Bad supply

#### Disk Resource

21000001 Get unit: already has disk  
21000002 Interrupt: no active unit

#### Bootstrap

30000001 Boot code returned an error

\* CPU traps (exceptions) are defined by the 680x0 CPU and not by the Amiga OS. There are 256 vectors for CPU exceptions: the lower 64 are hardware defined, the upper 192 are user-definable interrupt vectors.

Specific CPU traps you might see in a Guru are:

00000002 Bus error  
00000003 Address error  
00000004 Illegal instruction  
00000005 Divide by zero  
00000006 CHK instruction  
00000007 TRAPV instruction  
00000008 Privilege violation  
00000009 Trace  
0000000A Op Code 1010  
0000000B Op Code 1111

Other CPU traps include autovectors for different level interrupts, TRAP instruction vectors and reserved traps.

## 1.5 author

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