

The following is a list of error codes and their descriptions. Note that, in appropriate cases, additional information follows the error. For example, if error code 2006 occurred on node 2 of the Catalog Tree, MacMedic™ would display this error as "(2006, 2)".

Error Code	Description
1000	The current VIB appears to be invalid, but an valid alternate VIB was found. You should replace your current VIB with this alternate.
1001	The current VIB has an incorrect signature. Every VIB starts with a signature. For HFS, this signature should be 'BD'. For HFS+, it should be 'H+'.
1002	The volume name stored in the VIB appears to be incorrect.
1003	The allocation block size, as stored in the VIB, is incorrect. (See Glossary for an explanation of allocation blocks).
1004	The clump size is incorrect, as it is stored in the VIB. (See Glossary for an explanation of the clump size).
1005	The allocation block start is incorrect. The allocation block start is where the allocation blocks begin.
1006	The Catalog Tree offsets and/or sizes, as stored in the VIB, are incorrect. (See Glossary for an explanation of the Catalog Tree.)
1007	The Extents Tree offsets and/or sizes, as stored in the VIB, are incorrect. (See Glossary for an explanation of the Extents Tree.)
1008	The clump size for the Catalog Tree is recorded incorrectly in the VIB.
1009	The total size of the Catalog Tree is recorded incorrectly in the VIB.
100A	The clump size for the Extents Tree is recorded incorrectly in the VIB.
100B	The clump size for the Catalog Tree is recorded incorrectly in the VIB.
100C	The Volume BitMap start is incorrectly recorded in the VIB.

- 100D The volume name stored in the VIB does not match the name of the root folder in the Catalog Tree. In other words, although a valid name is found in the VIB, it most likely is not the actual name of the volume.
- 100E An Extents Tree fragment does not evenly align on an allocation block boundary. In other words, it starts in the middle of an allocation block. All trees must start at beginning of an allocation block.
- 100F A Catalog Tree fragment does not evenly align on an allocation block boundary. In other words, it starts in the middle of an allocation block. All trees must start at beginning of an allocation block.
- 1010 The actual number of files stored on the root folder does not match what is recorded in VIB.
- 1011 The actual number of folders stored on the root folder does not match what is recorded in VIB.
- 1012 The actual number of files stored in the drive does not match what is recorded in VIB.
- 1013 The actual number of folders stored on the drive does not match what is recorded in VIB.
- 1014 The total number of allocation blocks, as written in the VIB, is incorrect.
- 1015 The default clump size for data forks, as recorded in the VIB is incorrect. This is a verification written for HFS+. Because HFS+ has a separate clump size for

resource forks, a single check for a clump

size is not enough (thus rendering error

code #1004 obsolete for HFS+, but not

HFS).

1016

The default clump size for resource forks,

as recorded in the VIB is incorrect. This

is a verification written for HFS+.

Because HFS+ has a separate clump size for

resource forks, a single check for a clump

size is not enough (thus rendering error

code #1004 obsolete for HFS+, but not



HFS).

1017                    The number of free allocation blocks, as recorded in the VIB, is incorrect.

1018                    The next Catalog Node Identifier (CNID) is incorrect. This value stores the CNID of the last record to be added to the Catalog Tree. If this value is incorrect, the next record to be added to the Catalog Tree may write over another

record, or greatly confuse the Catalog

Tree.

1020

The alternate VIB appears to be invalid.  
This alternate VIB is a backup of the  
current VIB of the drive. It used by the  
system and repair utilities as a reference  
if the current VIB appears to be invalid

or incorrect. It is very important that

this alternate VIB exists. If it does

not, the chances of repairing and

recovering a drive diminishes.

2002                      Catalog Tree: The forward link of one node  
does not agree with the backward link of  
another node.

2005                      The Catalog Tree bitmap does not appear to

be consistent with the actual state of the  
Catalog Tree.

- 2006 A Catalog Tree node has an incorrect depth recorded.
- 2007 A Catalog Tree offset pointer has an incorrect or invalid downward link. Using offset pointers is a part of the Catalog Tree's method of bookkeeping.
- 2008 The number of leaf records, as stored in the Catalog Tree Header, is incorrect.
- 2009 The number of free nodes, as stored in the Catalog Tree Header, is incorrect.
- 200B No root node for the Catalog Tree could be found.
- 200C A Catalog Tree node has the wrong type listed.
- 200D A Catalog Tree node has the wrong number recorded for the total number of records

it holds.

200E

A Catalog Tree node contains an invalid record.

2010

A Catalog Tree record was found in the wrong location in the Catalog Tree. All records in the Catalog Tree have a specific order to them, and this record appears to violate this order.

2011

One of the bottom offsets in the Catalog

Tree node appear to be incorrect. These

offsets tell the node where each record



begins and ends.

- 2012 Two records in the Catalog Tree share the same identifier. Each record has a unique identifier to the system (also sometimes referred to as a Catalog Node Identifier (CNID)). If two contain the same value, the system cannot accurately distinguish between the two records.
- 2020 There are not enough map nodes to suit the Catalog Tree. Map nodes indicate what nodes are in use, and what nodes are not. These map nodes create the Catalog Tree's bitmap. There must be enough map nodes so that every node in the Catalog Tree can be accounted for.
- 2100 There was no root folder found in the Catalog Tree. This root folder is where all the data is stored on the disk. If there is no root folder, the disk cannot be mounted.
- 2200 There are references to folders in the Catalog Tree that do not exist. For example, File A may claim to be inside a folder with the identifier #20, but there is no folder with the identifier #20. Thus, File A will not appear on the disk.
- 2201 The Catalog Tree is missing folder and/or thread records. Every folder is complemented with a thread record, and one or more of these complements are missing. On most systems, if the thread is missing, this will result in a folder that cannot be opened. If the folder is missing, it will not appear on the disk, and its contents will not be accessible.
- 2202 Records were found "outside" of the Catalog Tree. That is, valid nodes were located within the entire Catalog Tree range, but these nodes could not be linked into the Catalog Tree. These

valid nodes also contained valid records. If the drive has had major repair, these records were probably a part of the original tree, but disregarded during repair, resulting in missing data.

- 2203 Folders were found that could not be traced to the root folder. Every folder in the Catalog Tree should, in some direction, point to the root folder. If Folder A contains Folder B, and Folder B contains Folder C, Folder C still links to the root folder (though its ancestor, Folder A). However, if Folder A claims to be within Folder C, rather than the root folder, then all of these folders cannot link to the root folder. The end result is that all these folder will not appear on the disk. In these circumstances, MacMedic™ will change Folder A's parent to the root folder, thus linking all the folders to the root.
- 2300 The Catalog Tree Header has the wrong node recorded as the root node.
- 2301 The Catalog Tree Header has the wrong depth recorded as the total depth.
- 2302 The Catalog Tree Header has the wrong value stored for the total number of nodes in the Catalog Tree.
- 2303 The Catalog Tree Header has the wrong value stored for the size of each Catalog Tree node.
- 2304 The Catalog Tree Header has the wrong value recorded for the maximum size a Catalog Tree record can be.
- 2305 The Catalog Tree Header has the wrong node recorded as the first leaf node.
- 2306 The Catalog Tree Header has the wrong node recorded as the last leaf node.
- 2310 The Catalog Tree Header may have an incorrect value set in one or more of its reserved fields.
- 2311 The Catalog Tree Header has the wrong type recorded as type of b-tree.
- 2312 The Catalog Tree Header attributes are

recorded incorrectly.

2313

The Catalog Tree Header has a bad value recorded for its clump size.

3002

Extents Tree: The forward link of one node does not agree with the backward link of another node.

3005

The Extents Tree bitmap does not appear to

be consistent with the actual state of the Extents Tree.

3006

An Extents Tree node has an incorrect depth recorded.

3007

An Extents Tree offset pointer has an incorrect or invalid downward link. Using offset pointers is a part of the Extents Tree's method of bookkeeping.

- 3008 The number of leaf records, as stored in the Extents Tree Header, is incorrect.
- 3009 The number of free nodes, as stored in the Extents Tree Header, is incorrect.
- 300B No root node for the Extents Tree could be found.
- 300C A Extents Tree node has the wrong type listed.
- 300D A Extents Tree node has the wrong number recorded for the total number of records

it holds.

- 300E A Extents Tree node contains an invalid record.
- 300F Duplicate Extents records were found.

3010

An Extents Tree record was found in the

wrong location in the Extents Tree. All

records in the Extents Tree have a

specific order to them, and this record

appears to violate this order.

3011                      One of the bottom offsets in the Extents

Tree node appear to be incorrect. These

offsets tell the node where each record



begins and ends.

3012 Two records in the Extents Tree share the same identifiers. Each record has unique identifiers to the system. If two contain the same values, the system cannot accurately distinguish between the two records.

3020 There are not enough map nodes to suit the Extents Tree. Map nodes indicate what nodes are in use, and what nodes are not. These map nodes create the Extents Tree's bitmap. There must be enough map nodes so that every node in the Extents Tree can be accounted for.

3021 An Extents Tree Header cannot be found.

3200 There are not enough extents in the Extents Tree for the actual size and offsets of the Extents Tree. The Extents Tree stores all the fragments of the drive. These fragments aren't

limited to just files. The Extents Tree

also stores its own fragments, as well as  
fragments to other trees and data  
structures.

3201                    There are too many extents in the  
Extents Tree for the actual size and  
offsets of the Extents Tree. The  
Extents Tree stores all the fragments of  
the drive. These fragments aren't

limited to just files. The Extents Tree

also stores its own fragments, as well as  
fragments to other trees and data  
structures.

3202                    There are not enough extents in the  
Extents Tree for the actual size and  
offsets of the Catalog Tree.

3203                    There are too many extents in the  
Extents Tree for the actual size and  
offsets of the Catalog Tree.tree

3300                    The Extents Tree Header has the wrong node  
recorded as the root node.

3301                    The Extents Tree Header has the wrong depth  
recorded as the total depth.

3302                    The Extents Tree Header has the wrong value  
stored for the total number of nodes in  
the Extents Tree.

3303                    The Extents Tree Header has the wrong value  
stored for the size of each Extents Tree  
node.

3304                    The Extents Tree Header has the wrong value  
recorded for the maximum size a  
Extents Tree record can be.

3305                    The Extents Tree Header has the wrong node  
recorded as the first leaf node.

3306                    The Extents Tree Header has the wrong node

recorded as the last leaf node.

- 3310 The Extents Tree Header may have an incorrect value set in one or more of its reserved fields.
- 3311 The Extents Tree Header has the wrong type recorded as type of b-tree.
- 3312 The Extents Tree Header attributes are recorded incorrectly.
- 3313 The Extents Tree Header has a bad value recorded for its clump size.
- 3400 The data in the extents for the Extents

Tree is incorrect. The Extents Tree

stores all the fragments of the drive.

These fragments aren't limited to just

files. The Extents Tree also stores its

own fragments, as well as fragments to



other trees and data structures.

3401                      The data in the extents for the Catalog

Tree is incorrect.

4000                      The data contained in a Volume BitMap is

not consistent with the actual state of

the drive. It has certain blocks marked

as being used when they are actually

free, or certain blocks marked as being

free when they are actually being used.

4006                      Certain files claim allocation blocks that other files also claim. This is a very serious problem. If this happens to you, you should move the involved files from the drive. What could happen is, if one of the files are modified, the other file would be modified as well, resulting in data loss and corruption.

4102                      Files were found with corrupt resource forks. This is very serious. The only way to fix this problem is to restore

these files from backups.

4103 Duplicate records were found on the drive.  
For example, there were two files found,  
both called File A, both located in the  
same folder.

4104 There were extents that "belong" to a

certain file. However, this file cannot

be found on the disk.

4105

Folders were found with the wrong valence recorded. A folder valence is how many files and folders are contained with that folder. For example, if Folder A

contains 3 files and 4 folders, its

valence is 7.

4106 Folders were found which has incorrect flags recorded.

4107 Files and folders were found with incorrect creation and modification dates. The starting valid date begins at Jan 1,

1984. Modification dates are valid if



and only if they match the creation date,

or have a date later than the creation

date.

- 4108 Threads were found with incorrect names stored in its data. For every folder there is a thread to complement it. The name of the folder stored in this thread does not match its complement.
- 4109 Files were found in which its recorded size does not match its physical size.
- 4110 Files were found with bundle bits set incorrectly. Either files with a BNDL resource were found with their BNDL flag turned off, or files without a BNDL resource were found with their BNDL flag turned on. This is a very minor problem. The main side-effect of this problem is that these applications will have a generic application icon.
- 5000 The signature to Block 0 is incorrect. This signature indicates that it is the start of the Partition Map. The signature should be 'ER'.
- 5001 Block 0's block size is incorrect.
- 5002 Block 0's length is incorrect.
- 5010 An Apple Partition Map Entry (APME) couldn't be found. This entry defines the layout of the Partition Map.
- 5011 The Apple Partition Map Entry has the wrong number recorded for the number of

entries.

- 5012 An invalid Partition Map entry was found.
- 5013 A Partition Map entry has an incorrect offset.
- 5014 An HFS Partition Map entry does not point to a valid HFS area.
- 5015 The size of an HFS Partition Map entry may not have a correct size.
  
- 6000 The Boot Blocks appear to be invalid.