**IBISCHK6**

**IBISCHK6 (IBIS Golden Parser) User Guide**

**Version 6.1.2**

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Contents

[1 Introduction 3](#_Toc444000334)

[2 IBISCHK6 Usage 4](#_Toc444000335)

[2.1 Input File FLAGS 4](#_Toc444000336)

[2.2 Output FLAGS 5](#_Toc444000337)

[3 Output Message Categories 6](#_Toc444000338)

[4 Message Listing By Codes 8](#_Toc444000339)

[4.1 Message Codes 0 to 499 9](#_Toc444000340)

[4.2 Message Codes 500 to 999 26](#_Toc444000341)

[4.3 Message Codes 1000 to 1499 41](#_Toc444000342)

[4.4 Message Codes 1500 to 1999 48](#_Toc444000343)

[4.5 Message Codes 2000 to 2499 59](#_Toc444000344)

[4.6 Message Codes 2500 to 2999 73](#_Toc444000345)

[4.7 Message Codes 3000 to 3499 80](#_Toc444000346)

[4.8 Message Codes 3500 to 3999 94](#_Toc444000347)

[4.9 Message Codes 4000 to 4499 100](#_Toc444000348)

[4.10 Message Codes 4500 to 4999 112](#_Toc444000349)

[4.11 Message Codes 5000 to 5499 128](#_Toc444000350)

# Introduction

This document describes the usage, functionality, and message codes of the IBISCHK6 Version 6.1.2 source code and its associated executable programs. IBISCHK6 is used to test files for conformance with IBIS (I/O Buffer Information Specification) Version 6.1.

* The IBIS Version 6.1 Specification is available at www.ibis.org/ibis/ver6.1.
* IBISCHK6 executable program is freely available at www.ibis.org/ibis/ibischk6.
* Checks performed by IBISCHK6 are documented here.
* A high-level description of the source code package is provided, but actual documentation and utilities exist in the source code package. The license to be filled out is located with the executables, and the source code package is available from the IBIS Open Forum.

IBIS Version 6.1 describes formats named IBS, PKG (Define Package Model), EBD (Electrical Board Description), and AMI (Algorithmic Model Interface). IBISCHK6 parses files with .ibs, .pkg, .ebd, and .ami extensions. The first three file formats are keyword based with keywords enclosed by square brackets. The .ami format is tree-structure based where a parameter hierarchy is documented with parentheses.

Note that this specification was first written for IBISCHK6 Version 6.0.0. Prior versions of this document do not exist. As the IBIS specification evolves, the IBISCHK executable program and this IBISCHK specification will evolve and be numbered in parallel with IBISCHK version numbers.

The source code and consists of C language modules (.c and .h files) and makefile scripts to create the executable code for the operating system being used. Windows and Linux makefiles are supplied along with compiled executables.

In addition, multiple suites of QA (quality assurance) tests are provided for major and minor version levels starting with IBISCHK3. The test cases consist of IBIS files, their outputs, also their golden results. These test cases often relate to the feature set evolution (through the BIRD buffer issue resolution document revision process) and through code corrections (documented with BUG reports). The links below are:

* BIRDs: <http://www.ibis/birds>
* BUGs: <http://www.ibis/ibis-bugs>

# IBISCHK6 Usage

When “ibischk6” is run with no arguments, IBISCHK6 prints this help message:

IBISfile validation:

This program has been provided free to the electrical engineering community by the IBIS Open Forum. The purpose of this program is to validate that the contents of ASCII device data in a file specified conform to the IBIS specification.

Usage: IBISCHK6 <IBS filename>

: IBISCHK6 -ebd <EBD filename>

: IBISCHK6 -pkg <PKG filename>

: IBISCHK6 -ami <AMI filename>

Usage: IBISCHK6 -caution -numbered <IBS filename>

: IBISCHK6 -caution -numbered -ebd <EBD filename>

: IBISCHK6 -caution -numbered -pkg <PKG filename>

: IBISCHK6 -caution -numbered -ami <AMI filename>

The flags prior to the file name can be in any order, and the -caution and/or -numbered flags are optional.

One (and only one) file name argument must be provided to perform checking, and the file name extension must be consistent with the file type flag.

## Input File FLAGS

The following option flags are required for files other than those in the **.ibs** format.

-**pkg** Use this option if the file is in Define Package Model format, described in section 7 of the IBIS 6.1 Specification.

-**ebd** Use this option if the file is in Electrical Board Description format, described in section 8 of the IBIS 6.1 Specification.

-**ami** Use this option if the file is in Algorithmic Model Interface format, described in section 10.3 of the IBIS 6.1 Specification.

Note: if a top-level file calls other IBIS (IBS, PKG, EBD, and AMI) files, then all referenced files are checked with one call. For example, an EBD file can contain other EBD references and also IBS file references that reference both PKG files and also AMI files. The top-level EBD file check will initiate checking for that EBD file plus checking for all referenced files. These referenced files could also be checked individually by using the appropriate input file flags.

## Output FLAGS

Printed output messages can be modified using the following flags:

-**caution** Additional Cautions level messages will be printed only when the -caution flag is used. Their meaning is described further below and in section 3.

-**numbered** The –numbered flag gives alphanumeric message codes rather than generic codes. The generic codes messages begin with ERROR, WARNING, NOTE, INTERNAL ERROR, or CAUTION (when using the –caution flag). With the –numbered flag, the message format is <single-letter-category><four-digit-number>, discussed later. For example, one generic message begins with WARNING (without the –numbered flag) or W1113 (with the –numbered flag).

# Output Message Categories

Message categories with their single-letter-categories in parentheses are described below by descending severity. ERROR messages and some INTERNAL ERROR messages indicate a model file that should not be used. Most EDA tools will reject models that produce these messages. Models with WARNING, CAUTION, and NOTE messages should be reviewed manually or graphically to understand if the noted issues are important.

As IBISCHK has evolved, some messages have been promoted to a stronger level and some have been demoted. While the category code has changed, the message number remains the same. The Messages with their single-letter-category in parentheses are described below:

(E) Error Messages

Error messages are issued if there is a documented specification violation based on a syntax rule, a syntax argument violation, or some required combination of keywords, or subparameters and arguments. In some cases an unstated major violation (such as I-V to V-T table mismatch beyond 10%) is deemed an Error, because better matching is expected by proper extraction rules based on IBIS Version 6.1 Section 9 “Notes on Data Derivation Method”.

(B) Internal Error (BUG) Messages

Internal Error messages flag system errors that are not necessarily related to the model data (for example, memory allocation errors), and functional errors that are expected to be rare but are not easily documented by any means other than giving code file name and line number. In some cases the Internal Error messages reveal IBISCHK6 program bugs where the message should have been documented as an Error. We request that suspected program bugs be reported to ibis-bug@eda.org.

(W) Warning Messages

Warning messages are issued based on expected common practice and expected range of data values. They alert the user that something is likely to be wrong with the IBIS file. Usually no rule stated for these Warnings in the IBIS specification, but the model may contain suspicious data or may have missing subparameters that make it unusable for high-speed signal integrity application in common EDA tools. For example, limits on C\_comp values are checked to warn the model developer about excessively high values (such that might have occurred if the modeler incorrectly entered 1F instead of 1nF).

(C) Caution Messages

Caution messages require the –caution flag and are issued where even a Warning message can be incorrect for some cases or where a problem has no impact on simulation and a Warning message would cause many Warnings to appear in older models. For example, the [Ramp] dV values can now be checked for validity, but a flawed dV entry should have no impact on simulation. Older models developed without a dV check (prior to IBISCHK5) could exhibit many failures. Also, in some rare I/O models, Vmeas can fall outside of the Vinh and Vinl. For this case, a Caution message is issued to alert the modeler of a possible data entry mistake.

(N) Note Messages

Note messages are also cautionary, but no option flag is required to produce them. So far, Note messages are used only for cases where I-V data contains non-monotonic data points. Monotonic data for I-V tables is not required in the IBIS Specification. However, it is very useful to know if any of the I-V data is non-monotonic, or if combined I-V tables (where all clamp tables are included) are monotonic. Combined tables with non-monotonic points might cause simulation problems in some EDA tools. Sometimes there is no impact, especially if some of the detected non-monotonic points are very small (numerical noise) and in regions that are outside the normal simulation region. Inspecting or graphically viewing the tables is advised. In earlier versions of IBISCHK, the non-monotonic I-V reports were issued as Warnings. This was objectionable because some model vendors and users require having zero Errors and Warnings.

Unused MESSAGES

Unused messages are old messages that still exist in “dead” code and should never be encountered due to subsequent code changes. The messages are retained for historical source code documentation and also for the cases where they might show up when using earlier versions of IBISCHK.

# Message Listing By Codes

Message Codes along with their Symbols and Messages issued by IBISCHK6 are shown in the next sub-sections below. Each message has a shaded and unshaded row and the following columns:

1. **Code** – In the shaded row the alphanumeric Code consisting of a <single-letter-category><four-digit-number> (for example “E0102”) is given. Alphanumeric Codes are issued by IBISCHK6 when the **–numbered** option is used and the documented problem is encountered.
2. **Symbo**l – In the shaded row the message symbol found in the IBISCHK6 source code is given. The Symbol name identifies the source code module in which the message is encoded. For example, MDL\_ERR\_0 can be located in mdl.c. Each distinct Symbol name within a module has a distinct trailing integer (for example MDL\_ERR\_1, MDL\_ERR\_2, etc.). The symbol always has ERR regardless of its actual category.
3. **Message/Comments** – The shaded row shows the printed message with variable portions denoted by labels (where actual names or numerical information is substituted) enclosed in {curly brackets}. The unshaded row of each message contains a comment with further details or clarifications. Some comments still need to be refined and others still need to be filled in. If the message is not used in IBISCHK6, “Unused” is shown in the Comment field.

The Message Codes are organized and indexed in groups of 500 for easier location. Usually a contiguous set of Codes will correspond to a contiguous set of Symbols. Numerical gaps exist in the message Codes to allow room for new messages. So while the actual Code numbers range from 0100 through 5411, this document contains only 1310 messages codes.

An example of a message without and with the –numbered flag, respectively, is shown below:

WARNING - Model BUFFER: GND Clamp : Typical value never becomes zero

W1113 - Model BUFFER: GND Clamp : Typical value never becomes zero

The table entry located by its four-digit-number is:

|  |  |  |
| --- | --- | --- |
| **W1113** | CRV\_ERR\_13 | {label} {name}: {curveName} : Typical value never becomes zero |
|  | | *A general message indicating that the section with name has a curve whose typical current never becomes zero* |

This message exists in crv.c. The {label} is “Model”, the {name} is “BUFFER”, the {curveName} is “Gnd Clamp”, and the message is printed as shown above. An expanded comment is given in the unshaded row.

The message listing follows in the sections below.

## Message Codes 0 to 499

| **Code** | **Symbol** | **Message/Comments** |
| --- | --- | --- |
| **B0100** | MDL\_ERR\_0 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *[UNUSED}* |
| **B0101** | MDL\_ERR\_1 | Unable to get IBIS structure {sourceFile} {sourceLinenum} |
|  | | *Program data structures are corrupt* |
| **E0102** | MDL\_ERR\_2 | ( line {lineNum} ) - Orphan Model keyword. |
|  | | *Model keyword found but not within a Model declaration* |
| **E0103** | MDL\_ERR\_3 | ( line {lineNum} ) - Illegal Digital Port (not allowed in SPICE/IBIS-ISS Ports section) |
|  | | *Improper use of Digital port* |
| **E0104** | MDL\_ERR\_4 | ( line {lineNum} ) - D\_switch not allowed with (D\_drive,D\_receive,or D\_enable) in Ports/A2D/D2A Section |
|  | | *Improper use of D\_switch* |
| **E0105** | MDL\_ERR\_5 | ( line {lineNum} ) - {portName} not allowed with D\_switch in Ports/A2D/D2A Section |
|  | | *(D\_receive; D\_enable; D\_drive) are not allowed with D\_switch* |
| **E0106** | MDL\_ERR\_6 | ( line {lineNum} ) - Reserved Digital Port used as analog port |
|  | | *Improper use of Reserved Digital port* |
| **E0107** | MDL\_ERR\_7 | ( line {lineNum} ) - Orphan data line keyword. |
|  | | *A Model related data line was found where none was expected* |
| **E0108** | MDL\_ERR\_8 | ( line {lineNum} ) - TTgnd Typical value should be > 0 |
|  | | *Improper TTgnd typical value* |
| **E0109** | MDL\_ERR\_9 | ( line {lineNum} ) - TTgnd Min value should be > 0 |
|  | | *Improper TTgnd minimum value* |
| **E0110** | MDL\_ERR\_10 | ( line {lineNum} ) - TTgnd Max value should be > 0 |
|  | | *Improper TTgnd maximum value* |
| **W0111** | MDL\_ERR\_11 | TTgnd typ value is not in between Min and Max |
|  | | *Improper range for TTgnd* |
| **E0112** | MDL\_ERR\_12 | ( line {lineNum} ) - TTpower Typical value should be > 0 |
|  | | *Improper TTpower typical value* |
| **E0113** | MDL\_ERR\_13 | ( line {lineNum} ) - TTpower Min value should be > 0 |
|  | | *Improper TTpower minimum value* |
| **E0114** | MDL\_ERR\_14 | ( line {lineNum} ) - TTpower Max value should be > 0 |
|  | | *Improper TTPower maximum value* |
| **W0115** | MDL\_ERR\_15 | TTpower typ value is not in between Min and Max |
|  | | *Improper range for TTPower* |
| **E0116** | MDL\_ERR\_16 | ( line {lineNum} ) - [Model Spec] should be specified immediately after all the subparameters of a model and before the other keywords of a model |
|  | | *Improper positioning of [Model Spec]* |
| **W0117** | MDL\_ERR\_17 | ( line {lineNum} ) - [Receiver Thresholds] should not be specified for model type {modelType} |
|  | | *Receiver thresholds are not allowed for a which is not an Input or I/O model type* |
| **E0118** | MDL\_ERR\_18 | ( line {lineNum} ) - [Add Submodel] should be specified before other keywords for a model |
|  | | *[UNUSED}* |
| **E0119** | MDL\_ERR\_19 | ( line {lineNum} ) - {subparam/keyword} Already Defined For Model '{modelName}' |
|  | | *A model was already defined for* |
| **E0120** | MDL\_ERR\_20 | ( line {lineNum} ) - [Receiver Thresholds] should be specified immediately after all the subparameters of a model and before the other keywords of a model except [Model Spec] |
|  | | *Improper positioning of [Receiver Thresholds] keyword* |
| **E0121** | MDL\_ERR\_21 | ( line {lineNum} ) - Expecting Keyword. Invalid Line |
|  | | *An invalid line was found where a keyword was expected* |
| **B0122** | MDL\_ERR\_22 | Should Not Be Here: {sourceFile}, {sourceLinenum} |
|  | | *The code has a bug* |
| **E0123** | MDL\_ERR\_23 | ( line {lineNum} ) - Expecting [End External Model]. Invalid Line,FATAL ERROR |
|  | | *Some data other than [End External Model] found* |
| **E0124** | MDL\_ERR\_24 | ( line {lineNum} ) - Expecting [End External Model]. Invalid Line |
|  | | *[UNUSED}* |
| **B0125** | MDL\_ERR\_25 | ( line {lineNum} ) - Unable to eat keyword : {sourceFile} {sourceLinenum} |
|  | | *Error in parsing keyword* |
| **E0126** | MDL\_ERR\_26 | Unable to Save Model Name |
|  | | *[UNUSED}* |
| **E0127** | MDL\_ERR\_27 | 'Model' Keyword Missing name |
|  | | *The name of the model was not specified with the [Mode] keyword* |
| **E0128** | MDL\_ERR\_28 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For Keyword {keyword}: Expecting {numberOfItemsExpected} |
|  | | *The keyword should have had items on the keyword line but only number of data items were found* |
| **E0129** | MDL\_ERR\_29 | ( line {lineNum} ) - Model Name Over {maxModelNameChars} Characters Long |
|  | | *[UNUSED}* |
| **E0130** | MDL\_ERR\_30 | "( line {lineNum} ) - Invalid Model Name (\""{reservedWord}\""), Reserved Word." |
|  | | *A reserved word was used as a model name* |
| **E0131** | MDL\_ERR\_31 | "( line {lineNum} ) - Model Name Previously Defined (\""{modelName}\"")" |
|  | | *A new model is being defined with the same name as a previously defined model.* |
| **E0132** | MDL\_ERR\_32 | ( line {lineNum} ) - Redundant a\_port for A2D, \n |
|  | | *[UNUSED}* |
| **E0133** | MDL\_ERR\_33 | ( line {lineNum} ) - Digital Port already used in previous A2D for this corner |
|  | | *The digital port has already been used in a previous A2D section* |
| **B0134** | MDL\_ERR\_34 | Unable to Parse {errorString}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E0135** | MDL\_ERR\_35 | ( line {lineNum} ) - Duplicate External Language Line |
|  | | *The Language subparameter is already defined for an [External Model] section* |
| **E0136** | MDL\_ERR\_36 | "( line {lineNum} ) - Invalid {subparam/keyword} (\""{badValue}\"") (try \""{options}\"")" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E0137** | MDL\_ERR\_37 | Incorrect Number of Line Items ({lineNum}) For {numberOfItemsFound}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E0138** | MDL\_ERR\_38 | ( line {lineNum} ) - Missing Language sub-parameter. Language must be defined |
|  | | *The Language subparameter was not defined in an [External Model] section* |
| **E0139** | MDL\_ERR\_39 | ( line {lineNum} ) - Duplicate Typ Corner |
|  | | *The Typ corner was specified multiple times in [External Model] Corner sub parameter* |
| **E0140** | MDL\_ERR\_40 | ( line {lineNum} ) - Duplicate Max Corner |
|  | | *The Max corner was specified multiple times in [External Model] Corner sub parameter* |
| **E0141** | MDL\_ERR\_41 | ( line {lineNum} ) - Duplicate Min Corner |
|  | | *The Min corner was specified multiple times in [External Model] Corner sub parameter* |
| **E0142** | MDL\_ERR\_42 | ( line {lineNum} ) - Wrong number of args in PORT\_TYPE |
|  | | *Non spec check* |
| **E0143** | MDL\_ERR\_43 | ( line {lineNum} ) - Port\_type not allowed |
|  | | *Non spec check* |
| **E0144** | MDL\_ERR\_44 | ( line {lineNum} ) - Language must be defined before D2A |
|  | | *The Language subparam should be specified before the D\_to\_A subparam* |
| **E0145** | MDL\_ERR\_45 | ( line {lineNum} ) - D2A only allowed for language = SPICE or language = IBIS-ISS |
|  | | *The subparam D2A can only be specified if the Language suparam is SPICE* |
| **E0146** | MDL\_ERR\_46 | ( line {lineNum} ) - No Typ Corner Defined... required |
|  | | *The Typ corner was not specified in [External Model] Corner sub parameter* |
| **W0147** | MDL\_ERR\_47 | ( line {lineNum} ) - No Min Corner Defined for D2A. using Typ |
|  | | *[UNUSED}* |
| **W0148** | MDL\_ERR\_48 | ( line {lineNum} ) - No Max Corner Defined for D2A. Using Typ |
|  | | *[UNUSED}* |
| **E0149** | MDL\_ERR\_49 | "Invalid {lineNum} Value (\""{badValue}\"")" |
|  | | *An invalid Corner was specified in the [External Model] section* |
| **E0150** | MDL\_ERR\_50 | ( line {lineNum} ) - trise < 0,[{tRiseval}] |
|  | | *The tRise specified on the D\_to\_A subparam is less than 0* |
| **E0151** | MDL\_ERR\_51 | ( line {lineNum} ) - tfall < 0,[{tFallval}] |
|  | | *The tFall specified on the D\_to\_A subparam is less than 0* |
| **E0152** | MDL\_ERR\_52 | ( line {lineNum} ) - Vlow >= Vhigh [{lowValue} >= {highValue}] |
|  | | *The Vlow is greater Vhigh for the D\_to\_A subparam in an [External Model} section* |
| **E0153** | MDL\_ERR\_53 | ( line {lineNum} ) - Illegal Analog Port {portName},not in port list |
|  | |  |
| **E0154** | MDL\_ERR\_54 | ( line {lineNum} ) - Language must be defined before A2D |
|  | | *The Language subparam should be specified before the A\_to\_D subparam* |
| **E0155** | MDL\_ERR\_55 | ( line {lineNum} ) - NO Typ Corner defined for A2D |
|  | |  |
| **W0156** | MDL\_ERR\_56 | ( line {lineNum} ) - NO Min Corner defined for A2D. Using Typ |
|  | | *[UNUSED}* |
| **W0157** | MDL\_ERR\_57 | ( line {lineNum} ) - NO Max Corner defined for A2D. Using Typ |
|  | | *[UNUSED}* |
| **E0158** | MDL\_ERR\_58 | "( line {lineNum} ) - Invalid {subparam} (\""{value}\"")" |
|  | | *A Generic error to display that the [Model] subparameter (Enable; IOType; Polarity) has an invalid value . Also used for [Add SubModel] Mode subparameter. This error message is also used incorrectly for invalid [External Model] subparameters.* |
| **W0159** | MDL\_ERR\_59 | ( line {lineNum} ) - Vinl should not be specified for model type {modelType} |
|  | | *is not an Input and IO modeltype and hence Vinl cannot be specified* |
| **W0160** | MDL\_ERR\_60 | ( line {lineNum} ) - {subType} should not be specified for model type {modelType} |
|  | | *[UNUSED}* |
| **W0161** | MDL\_ERR\_61 | ( line {lineNum} ) - Vinh should not be specified for model type {modelType} |
|  | | *is not an Input and IO modeltype and hence Vinl cannot be specified* |
| **E0162** | MDL\_ERR\_62 | ( line {lineNum} ) - Sub Parameter Cref\_diff is valid only for IBIS version >= 4.1 |
|  | | *Cref\_diff is not valid for IBIS file versions less than 4.1* |
| **W0163** | MDL\_ERR\_63 | ( line {lineNum} ) - Creff\_diff should not be specified for model type {modelType} |
|  | | *is not an output model type hence Cref\_diff is not valid* |
| **E0164** | MDL\_ERR\_64 | ( line {lineNum} ) - Sub Parameter Rref\_diff is valid only for IBIS version >= 4.1 |
|  | | *Rref\_diff is not valid for IBIS file versions less than 4.1* |
| **W0165** | MDL\_ERR\_65 | ( line {lineNum} ) - Rreff\_diff should not be specified for model type {modelType} |
|  | | *is not an output model type hence Rref\_diff is not valid* |
| **W0166** | MDL\_ERR\_66 | ( line {lineNum} ) - Vmeas should not be specified for model type {modelType} |
|  | | *is one of Input; Input\_Diff; Input\_Ecl; Terminator; Series; Series\_switch hence Vmes is not vaiid* |
| **W0167** | MDL\_ERR\_67 | ( line {lineNum} ) - Cref should not be specified for model type {modelType} |
|  | | *is one of Input; Input\_Diff; Input\_Ecl; Terminator; Series; Series\_switch hence Cref is not vaiid* |
| **W0168** | MDL\_ERR\_68 | ( line {lineNum} ) - Rref should not be specified for model type {modelType} |
|  | | *is one of Input; Input\_Diff; Input\_Ecl; Terminator; Series; Series\_switch hence Rref is not vaiid* |
| **W0169** | MDL\_ERR\_69 | ( line {lineNum} ) - Vref should not be specified for model type {modelType} |
|  | | *is one of Input; Input\_Diff; Input\_Ecl; Terminator; Series; Series\_switch hence Vref is not vaiid* |
| **E0170** | MDL\_ERR\_70 | ( line {lineNum} ) - Sub Parameter C\_comp\_pullup is valid only for IBIS version >= 4.0 |
|  | | *C\_comp\_pullup is not valid for IBIS file versions less than 4.0* |
| **E0171** | MDL\_ERR\_71 | ( line {lineNum} ) - Sub Parameter C\_comp\_pulldown is valid only for IBIS version >= 4.0 |
|  | | *C\_comp\_pulldown is not valid for IBIS file versions less than 4.1* |
| **E0172** | MDL\_ERR\_72 | ( line {lineNum} ) - Sub Parameter C\_comp\_power\_clamp is valid only for IBIS version >= 4.0 |
|  | | *C\_comp\_power\_clamp is not valid for IBIS file versions less than 4.2* |
| **E0173** | MDL\_ERR\_73 | ( line {lineNum} ) - Sub Parameter C\_comp\_gnd\_clamp is valid only for IBIS version >= 4.0 |
|  | | *C\_comp\_gnd\_clamp is not valid for IBIS file versions less than 4.2* |
| **E0174** | MDL\_ERR\_74 | ( line {lineNum} ) - Unknown Line Among Model Data |
|  | | *A line was found in the [Model] section wich was not a valid line* |
| **E0175** | MDL\_ERR\_75 | ( line {lineNum} ) - '{subparam}' Subparameter Missing Setting |
|  | | *There was no value specified for model subparameter* |
| **E0176** | MDL\_ERR\_76 | ( line {lineNum} ) - Invalid {subparam} Line |
|  | | *The line corresponding to mdeol subparameter has an invalid syntax* |
| **W0177** | MDL\_ERR\_77 | ( line {lineNum} ) - Model {model}: {subparam} min value is not the smallest value listed |
|  | | *Unused* |
| **E0178** | MDL\_ERR\_78 | ( line {lineNum} ) - 'NA' Not Allowed For Typical Value |
|  | | *Unused* |
| **W0179** | MDL\_ERR\_79 | Model {modelName}: {subparam} max value is not the largest value listed |
|  | | *Unused* |
| **E0180** | MDL\_ERR\_80 | Model '{modelName}': {Model\_type} Not Defined |
|  | | *The Model Type is not defined for Model* |
| **E0181** | MDL\_ERR\_81 | Model {modelName}: One of C\_comp,C\_comp\_pullup,C\_comp\_pulldown,C\_comp\_power\_clamp,C\_comp\_gnd\_clamp must be defined |
|  | | *A mandatory sub-parameter is missing for* |
| **C0182** | MDL\_ERR\_82 | Vmeas is <= Vinl for model {modelName} |
|  | | *Vmeas must be greater than Vinl but is not so for* |
| **C0183** | MDL\_ERR\_83 | Vmeas is >= Vinh for model {modelName} |
|  | | *Vmeas must be less than Vinh but is not so for* |
| **W0184** | MDL\_ERR\_84 | Model '{modelName}': Model\_type '{modelType}' must have {subparam} set |
|  | | *A generic message indicating that for Model which is of type the Vinl or Vinh parameter should be set* |
| **E0185** | MDL\_ERR\_85 | Model '{modelName}': {subparam} is set when Model\_type is not Terminator |
|  | | *Model is not Terminator type; but corresponding to Rgnd; Rpower; Rac; or Cac has been defined* |
| **E0186** | MDL\_ERR\_86 | Model '{modelName}': Rac must be defined when Cac is |
|  | | *For Model which is of type Terminator; Cac is defined but Rac is not* |
| **E0187** | MDL\_ERR\_87 | Model '{modelName}': Cac must be defined when Rac is |
|  | | *For Model which is of type Terminator; Rac is defined but Cac is not* |
| **E0188** | MDL\_ERR\_88 | Model '{modelName}': {clampReference} Required when No Voltage Range is Specified |
|  | | *For model ; the [Voltage Range] is not specified; so the Reference must be specified (Pullup\_reference; Pulldown\_reference; Power\_clamp\_reference; Gnd\_clamp\_reference are all required if [Voltage Range] is not specified)* |
| **E0189** | MDL\_ERR\_89 | Model '{modelName}': Ramp Not Allowed for Series and Series\_switch |
|  | | *Model is of type Series or Series\_switch and hence the [Ramp] keyword is not allowed* |
| **E0190** | MDL\_ERR\_90 | Model '{modelName}': Ramp Not Defined |
|  | | *[Ramp] needs to be defined for all model types except Input types; Series; Series\_switch and Terminator and was not defined for Model* |
| **W0191** | MDL\_ERR\_91 | Model '{modelName}': {keyword} is not allowed when Model\_type is Series |
|  | | *Any of Pullup; Pulldown; POWER\_Clamp; GND\_Clamp; Rising Waveform; Falling Waveform; TTgnd; TTpower; Driver Schedule; Model Spec should not be defined for model type Series but it it was defined for* |
| **W0192** | MDL\_ERR\_92 | Model '{modelName}': {keyword} is not allowed when Model\_type is Series\_switch |
|  | | *Any of Pullup; Pulldown; POWER\_Clamp; GND\_Clamp; Rising Waveform; Falling Waveform; TTgnd; TTpower; Driver Schedule; Model Spec should not be defined for model type Series\_switch ; but it was defined for* |
| **E0193** | MDL\_ERR\_93 | Model {modelName} is of type Series\_switch. [On] keyword is required |
|  | | *An [Off] section was not defined for Model which is of type Series\_switch* |
| **E0194** | MDL\_ERR\_94 | Model {modelName} is of type Series\_switch. [Off] keyword is required |
|  | | *An [On] section was not defined for Model which is of type Series\_switch* |
| **E0195** | MDL\_ERR\_95 | Model {modelName}: Receiver Thresholds use POWER Clamp Reference which is not defined in this Model |
|  | | *The reference\_supply subparameter of Receiver Threshold was set to POWER\_Clamp\_Ref but there is no [POWER Clamp Reference] section specified for Model* |
| **E0196** | MDL\_ERR\_96 | Model {modelName}: Receiver Thresholds use GND Clamp Reference which is not defined in this Model |
|  | | *The reference\_supply subparameter of Receiver Threshold was set to GND\_Clamp\_Ref but there is no [GND Clamp Reference] section specified for Model* |
| **E0197** | MDL\_ERR\_97 | Model {modelName}: Receiver Thresholds use Pullup Reference which is not defined in this Model |
|  | | *The reference\_supply subparameter of Receiver Threshold was set to Pullup\_Ref but there is no [Pullup Reference] section specified for Model* |
| **E0198** | MDL\_ERR\_98 | Model {modelName}: Receiver Thresholds use Pulldown Reference which is not defined in this Model |
|  | | *The reference\_supply subparameter of Receiver Threshold was set to Pulldown\_Ref but there is no [Pulldown Reference] section specified for Model* |
| **E0199** | MDL\_ERR\_99 | Model {modelName}: Receiver Thresholds use External Reference which is not defined in this Model |
|  | | *The reference\_supply subparameter of Receiver Threshold was set to Ext\_Ref but there is no [External Reference] section specified for Model* |
| **W0200** | MDL\_ERR\_100 | Model '{modelName}': Vmeas,Vref and Rref timing test load parameters should be specified |
|  | | *Since is Open\_drain or Open\_sink or ECL type; one of Vmeas or Vref or Rref is mandatory* |
| **W0201** | MDL\_ERR\_101 | Model '{modelName}': Vmeas timing test load parameter should be specified |
|  | | *Since is an I/O type or Output type or Tri-state type; Vmeas is mandatory* |
| **W0202** | MDL\_ERR\_102 | Model '{modelName}': Rref\_diff or Cref\_diff timing test load parameters should be specified |
|  | | *Since is of type IO\_Diff; Output\_Diff or Tri-state\_Diff; Rref\_diff or Cref\_diff are mandatory* |
| **E0203** | MDL\_ERR\_103 | ( line {lineNum} ) - External Model language wrong or not specified\n |
|  | | *[UNUSED}* |
| **E0204** | MDL\_ERR\_104 | ( line {lineNum} ) - Model '{modelName}' is of type Series\_switch. {subparam} should be defined before the [On] and [Off] sections |
|  | | *Model is of type Series\_switch so corrresponding to one of the keywords Voltage Range; Temperature Change; Pullup Reference; Pulldown Reference; GND Clamp Reference; POWER Clamp Reference should be defined before the [On] or [Off] keywords* |
| **E0205** | MDL\_ERR\_105 | ( line {lineNum} ) - Keyword is valid only for Series\_switch models |
|  | | *[On] and [Off] keywords are only valid for Series\_switch models* |
| **E0206** | MDL\_ERR\_106 | ( line {lineNum} ) - Keyword is valid only for Series and Series\_switch models |
|  | | *[On] keyword is only valid for Series and Series\_switch models* |
| **E0207** | MDL\_ERR\_107 | ( line {lineNum} ) - No preceding [On] or [Off] keyword found. Assuming [On] |
|  | | *A keyword associated with Series\_switch models should be preceded with an [On] or [Off] keyword.* |
| **E0208** | MDL\_ERR\_108 | ( line {lineNum} ) - Add sub model: Already Defined for this model |
|  | | *Only a single [Add Submodel] section is allowed in a model* |
| **E0209** | MDL\_ERR\_109 | ( line {lineNum} ) - Add Submodel is not allowed for Series or Series\_switch models |
|  | | *[Add Submodel] section is not allowed for models which have type Series or Series\_switch* |
| **E0210** | MDL\_ERR\_110 | ( line {lineNum} ) - Invalid Add Submodel Line. Expecting two items only |
|  | | *More than 2 items were defined on the [Add Submodel] keyword line* |
| **E0211** | MDL\_ERR\_111 | ( line {lineNum} ) - Add Submodel Name not found |
|  | | *The Add Submodel line did not have a submodel name specified* |
| **E0212** | MDL\_ERR\_112 | ( line {lineNum} ) - Add Submodel Name Over {maxSubModelChars} Characters Long |
|  | | *A submodel name cannot be more than ; ie; 40* |
| **E0213** | MDL\_ERR\_113 | "( line {lineNum} ) - Invalid Submodel Name (\""{submodelName}\""), Reserved Word." |
|  | | *A reserved word was used as a sub model name* |
| **E0214** | MDL\_ERR\_114 | ( line {lineNum} ) - Duplicate Add Submodel Name {submodelName} |
|  | | *[UNUSED}* |
| **E0215** | MDL\_ERR\_115 | ( line {lineNum} ) - Add Submodel Mode not found |
|  | | *"The mode ""Driving"" or ""Non-Driving"" was not specified for an [Add SubModel]"* |
| **E0216** | MDL\_ERR\_116 | ( line {lineNum} ) - Driving mode is not valid for input model types |
|  | | *If a Model is of type Input; then the added Submodel cannot be in Driving mode* |
| **E0217** | MDL\_ERR\_117 | ( line {lineNum} ) - Non-Driving mode is not valid for output model types |
|  | | *If a Model is of type Output; the the added Submodel cannot be in Non-driving mode* |
| **E0218** | MDL\_ERR\_118 | Could not find definition for Submodel {submodelName} of Model {modelName} |
|  | | *The model has an added submodel but the submodel definition was not found* |
| **W0219** | MDL\_ERR\_119 | Model {modelName} not referenced in any [Pin],[Model Selector], |
|  | | *The Model has not been referenced anywhere in a [Pin] or [Model Selector] section* |
| **W0220** | MDL\_ERR\_120 | Submodel {submodelName} is not referenced by any model [Add Submodel] keyword |
|  | | *The SubModel has not been referenced by any [Add Submodel] section in any model* |
| **E0221** | MDL\_ERR\_121 | ( line {lineNum} ) - No Paramter list for model {modelName}\n |
|  | | *(Though this error message is referenced in code; that code is never invoked)* |
| **E0222** | MDL\_ERR\_122 | [External Model] corner type does not contain reserved port REQUIRED |
|  | |  |
| **E0223** | MDL\_ERR\_123 | [External Model] corner type contains reserved port ILLEGAL |
|  | |  |
| **E0224** | MDL\_ERR\_124 | Illegal type or program bug\n |
|  | |  |
| **E0225** | MDL\_ERR\_125 | [EXTERNAL CIRCUIT] : corner Port : used as digital and analog |
|  | |  |
| **E0226** | MDL\_ERR\_126 | MODEL Corner line: {lineNum} has A2D not matching TYP A2D: |
|  | |  |
| **E0227** | MDL\_ERR\_127 | MODEL Corner line: {lineNum} has D2A not matching TYP D2A: |
|  | |  |
| **W0228** | MDL\_ERR\_128 | MODEL Corner has no A2d matching TYP: .. adding by default |
|  | | *[UNUSED}* |
| **W0229** | MDL\_ERR\_129 | MODEL Corner has no D2A matching TYP: .. adding by default |
|  | | *[UNUSED}* |
| **E0230** | MDL\_ERR\_130 | ( line {lineNum} ) - [End\_External\_Model] with no [External Model] |
|  | |  |
| **E0231** | MDL\_ERR\_131 | ( line {lineNum} ) - No Typ Corner Defined for [External Model](required) |
|  | | *The Typ corner was not specified in [External Model] Corner sub parameter* |
| **W0232** | MDL\_ERR\_132 | External Model for has suspiciously few PORTS ({numPorts}) |
|  | |  |
| **E0233** | MDL\_ERR\_133 | ( line {lineNum} ) - No A2D or D2A for Typ corner in model {modelName} |
|  | | *[UNUSED}* |
| **W0234** | MDL\_ERR\_134 | ( line {lineNum} ) - No A2D or D2A for Min corner in model {modelName},will use Typ corner |
|  | | *[UNUSED}* |
| **W0235** | MDL\_ERR\_135 | ( line {lineNum} ) - No A2D or D2A for Max corner in model {modelName},will use Typ Corner |
|  | | *[UNUSED}* |
| **E0236** | MDL\_ERR\_136 | ( line {lineNum} ) - Illegal (not specified and not reserved) port name in |
|  | | *Port name can't be used for [External Model] or [External Circuit] type.* |
| **E0237** | MDL\_ERR\_137 | ( line {lineNum} ) - Reserved Analog Port used as digital port |
|  | |  |
| **E0238** | MDL\_ERR\_138 | ( line {lineNum} ) - Redundant port1 in D2A |
|  | | *[UNUSED}* |
| **E0239** | MDL\_ERR\_139 | ( line {lineNum} ) - Illegal Digital Port in D2A |
|  | |  |
| **E0240** | MDL\_ERR\_140 | ( line {lineNum} ) - Illegal Digital Port in A2D (must use D\_receive) |
|  | |  |
| **E0241** | MDL\_ERR\_141 | ( line {lineNum} ) - Illegal Digital Port in A2D (use D\_receive or a User Defined) |
|  | |  |
| **E0242** | MDL\_ERR\_142 | ( line {lineNum} ) - Vlow > Vhigh [{Vlow} >= {Vhigh}] |
|  | |  |
| **E0243** | MDL\_ERR\_143 | ( line {lineNum} ) - PORT2 must be reserved word analog port |
|  | | *[UNUSED}* |
| **E0244** | MDL\_ERR\_144 | ( line {lineNum} ) - [End\_External\_Circuit] with no [External Circuit] |
|  | | *An [End External Circuit] keyword was found with no associated [External Circuit] keyword* |
| **W0245** | MDL\_ERR\_145 | [External Circuit] has suspiciously few PORTS ({portCount}) |
|  | |  |
| **W0246** | MDL\_ERR\_146 | ( line {lineNum} ) - No A2D or D2A for Typ corner in Circuit {cktName} |
|  | | *[UNUSED}* |
| **W0247** | MDL\_ERR\_147 | ( line {lineNum} ) - No A2D or D2A for Min corner in Circuit {cktName},will use Typ corner |
|  | | *[UNUSED}* |
| **W0248** | MDL\_ERR\_148 | ( line {lineNum} ) - No A2D or D2A for Max corner in circuit {cktName},will use Typ Corner |
|  | | *[UNUSED}* |
| **E0249** | MDL\_ERR\_149 | ( line {lineNum} ) - Orphan External Cucuit keyword. |
|  | |  |
| **E0250** | MDL\_ERR\_150 | Unable to Save External Circuit Name |
|  | | *The code failed to allocate the required memory* |
| **E0251** | MDL\_ERR\_151 | ( line {lineNum} ) - 'External Circuit' Keyword Missing name |
|  | | *There was no name specified on the [External Circuit] keyword line* |
| **E0252** | MDL\_ERR\_152 | ( line {lineNum} ) - External Circuit Name Over {maxLength} Characters Long |
|  | | *[UNUSED}* |
| **E0253** | MDL\_ERR\_153 | "( line {lineNum} ) - Invalid External Circuit Name (\""{cktName}\""), Reserved Word." |
|  | | *The name specified for an external circuit is invalid as it is a reserved word* |
| **E0254** | MDL\_ERR\_154 | "( line {lineNum} ) - External Circuit Name Previously Defined (\""{cktName}\"")" |
|  | | *An external circuit with name is already defined* |
| **E0255** | MDL\_ERR\_155 | External Model D2A Line Illegal connection,2 analog reference/driver ports |
|  | |  |
| **E0256** | MDL\_ERR\_156 | ( line {lineNum} ) - A2D only allowed for language = SPICE or language = IBIS-ISS |
|  | |  |
| **E0257** | MDL\_ERR\_157 | ( line {lineNum} ) - [Composite Current] should be preceded by a [Rising Waveform] or [Falling Waveform] section |
|  | | *A [Composite Current] section in a model should be immediately be preceded by a [Rising Waveform] or [Falling Waveform] section* |
| **E0258** | MDL\_ERR\_158 | ( line {lineNum} ) - No previous Rising or Falling Waveform found with which to associate the Composite Current |
|  | | *A [Composite Current] section in a model was preceded by a [Rising Waveform] or [Falling Waveform] section but due to some error the [Rising Waveform] or [Falling Waveform] section was not parsed so the parser is unable to associate a Rising or Falling waveform with the Composite current* |
| **E0259** | MDL\_ERR\_159 | ( line {lineNum} ) - Missing [End Algorithmic Model] keyword |
|  | | *An [Algorithmic Model] section was not terminate with an [End Algorithmic Model] keyword* |
| **E0260** | MDL\_ERR\_160 | ( line {lineNum} ) - [End Emi Model] keyword expected |
|  | | *The [End Emi Model] keyword was expected to finish off a previously started [Begin Emi Model] section* |
| **E0261** | MDL\_ERR\_161 | ( line {lineNum} ) - Orphan [End Algorithmic Model] keyword found |
|  | | *An [End Algorithmic Model] keyword was found without an associated [Algorithmic Model] keyword* |
| **E0262** | MDL\_ERR\_162 | ( line {lineNum} ) - Orphan [End EMI Model] keyword found |
|  | | *An [End EMI Model] keyword was found without an associated [Begin EMI Model] keyword* |
| **B0263** | MDL\_ERR\_163 | ( line {lineNum} ) - Composite Current is already associated with the last Waveform |
|  | | *More than one [Composite Current] section has been defined for Rising or Falling waveform* |
| **E0264** | MDL\_ERR\_164 | ( line {lineNum} ) - Invalid {subparam} assignment. Too many tokens found |
|  | | *[UNUSED}* |
| **E0265** | MDL\_ERR\_165 | ( line {lineNum} ) - Invalid {subparam} assignment. Each assignment should be defined on a separate line |
|  | | *[UNUSED}* |
| **E0266** | MDL\_ERR\_166 | ( line {lineNum} ) - Converter Parameter {paramname} is not Numeric |
|  | | *[UNUSED}* |
| **E0267** | MDL\_ERR\_167 | ( line {lineNum} ) - The parameter {paramname} reference '{paramreference}' has mismatched parenthesis |
|  | | *[UNUSED}* |
| **E0268** | MDL\_ERR\_168 | ( line {lineNum} ) - Invalid D2A polarity '{polarity}': Can only be 'Inverting' or 'Non-Inverting' |
|  | | *[UNUSED}* |
| **E0269** | MDL\_ERR\_169 | ( line {lineNum} ) - The D2A d\_port should be 'D\_drive' when polarity is specified |
|  | | *[UNUSED}* |
| **E0270** | MDL\_ERR\_170 | Mdl '{modename}' D2A corner '{corner}': When polarity is specified, there should two D2A defined with opposite polarities |
|  | | *[UNUSED}* |
| **E0271** | MDL\_ERR\_171 | ( line {lineNum} ) - Invalid Converter Parameter line. Should contain a single parameter assignment |
|  | | *[UNUSED}* |
| **E0272** | MDL\_ERR\_172 | ( line {lineNum} ) - Parameters are not allowed for language=SPICE |
|  | | *[UNUSED}* |
| **E0273** | MDL\_ERR\_173 | Model {modelname} has [Initial Delay] sub parameter {subparam} specified but it has no {section} |
|  | | *Model has [Initial Delay] sub-parametr (V-T; I-T) specified but the corressponding [Rising/Falling Waveform] or [Composite Current] is missing* |
| **W0274** | MDL\_ERR\_174 | Vinl > Vinh for model {modelname} |
|  | | *Vinl is greater than Vinh in* |
| **5306** | MPINS\_ERR\_6 | Invalid [Merged Pins] Pin Name {pinName}. Reserved word. |
|  | | *[UNUSED}* |
| **5309** | MPINS\_ERR\_9 | Pin {pinName} cannot be connected to the Merging Pin {mergePinName} as it is defined in the [Pin Numbers] section |
|  | | *[UNUSED}* |
| **5408** | IDLY\_ERR\_8 | {V-T|I-T}: Min value is not the smallest value listed |
|  | | *[UNUSED}* |
| **5409** | IDLY\_ERR\_9 | {V-T|I-T}: Max value is not the largest value listed |
|  | | *[UNUSED}* |

## Message Codes 500 to 999

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **B0500** | CMPNT\_ERR\_0 | {sourceFile}:{sourceLinenum}:Unable to get IBIS. |
|  | | *[UNUSED}* |
| **E0501** | CMPNT\_ERR\_1 | ( line {lineNum} ) - Orphan Component keyword. |
|  | | *Component keyword found but not within a Component declaration* |
| **B0502** | CMPNT\_ERR\_2 | ( line {lineNum} ) - Orphan data line keyword. |
|  | | *A non keyword line was found when no Component keyword section was active* |
| **E0503** | CMPNT\_ERR\_3 | ( line {lineNum} ) - Unexpected End Alternate Package Models keyword |
|  | | *Found [End Alternate Package Modes] where it was not expected* |
| **E0504** | CMPNT\_ERR\_4 | ( line {lineNum} ) - Expecting End Alternate Package Models keyword |
|  | | *Did not find [End Alternate Package Models] keyword where it was expected* |
| **B0505** | CMPNT\_ERR\_5 | {fileName}:{lineNum}:Illegal keyword passed to cmpnt. |
|  | | *Program data structures are corrupt in program file* |
| **E0506** | CMPNT\_ERR\_6 | ( line {lineNum} ) - Data on this line appears to be for the Component keyword,which does not allow data on subsequent lines. |
|  | | *There should be no additional lines associated with the [Component] keyword* |
| **E0507** | CMPNT\_ERR\_7 | ( line {lineNum} ) - Data on this line appears to be for the Manufacturer keyword,which does not allow data on subsequent lines. |
|  | | *There should be no additional lines associated with the [Manufacturer] keyword* |
| **E0508** | CMPNT\_ERR\_8 | ( line {lineNum} ) - Data on this line appears to be for the Package Model keyword,which does not allow data on subsequent lines. |
|  | | *There should be no additional lines associated with the [Package Model] keyword* |
| **B0509** | CMPNT\_ERR\_9 | {fileName}:{lineNum}:Unknown keyword received data. |
|  | | *Program data structures are corrupt in program file* |
| **B0510** | CMPNT\_ERR\_10 | {fileName}:{lineNum}:Illegal line type passed to cmpnt. |
|  | | *Program data structures are corrupt in program file* |
| **E0511** | CMPNT\_ERR\_11 | Component '{compName}' is duplicated within the .ibs file. |
|  | | *[UNUSED}* |
| **E0512** | CMPNT\_ERR\_12 | ( line {lineNum} ) - Unable to create new CMPNT. |
|  | | *Memory allocation for a new Component failed* |
| **W0513** | CMPNT\_ERR\_13 | ( line {lineNum} ) - Component '{compName}' contains a blank character. |
|  | | *Blank characters are illegal in a ( ; ; ; ; ; and )* |
| **E0514** | CMPNT\_ERR\_14 | Required keyword 'Manufacturer' not defined for Component '{compName}'. |
|  | | *[UNUSED}* |
| **B0515** | CMPNT\_ERR\_15 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E0516** | CMPNT\_ERR\_16 | Unable to find Package Model '{pkgName}' for Component '{compName}' |
|  | | *[UNUSED}* |
| **E0517** | CMPNT\_ERR\_17 | ( line {lineNum} ) - Duplicate Package keyword. |
|  | | *The [Package] section should be defined only once within a component* |
| **E0518** | CMPNT\_ERR\_18 | ( line {lineNum} ) - Unknown data after Package keyword. |
|  | | *The [Package] keyword line should have no data following the keyword.* |
| **E0519** | CMPNT\_ERR\_19 | Keyword 'Package' not defined for Component '{compName}'. |
|  | | *[UNUSED}* |
| **E0520** | CMPNT\_ERR\_20 | ( line {lineNum} ) - Duplicate [Alternate Package Models] keyword. |
|  | | *The [Alternate Package Models] section should be defined only once within a component* |
| **E0521** | CMPNT\_ERR\_21 | ( line {lineNum} ) - Unknown data after [Alternate Package Models] keyword. |
|  | | *The [Alternate Package Models] keyword line should have no data following the keyword.* |
| **E0522** | CMPNT\_ERR\_22 | ( line {lineNum} ) - Unknown data after [End Alternate Package Models] keyword. |
|  | | *The [End Alternate Package Models] keyword line should have no data following the keyword.* |
| **E0523** | CMPNT\_ERR\_23 | ( line {lineNum} ) - Duplicate Pin keyword found. |
|  | | *The [Pin] section should be defined at most once within a component* |
| **E0524** | CMPNT\_ERR\_24 | Unable to find Pin keyword data for Component '{compName}'. |
|  | | *[UNUSED}* |
| **E0525** | CMPNT\_ERR\_25 | ( line {lineNum} ) - Duplicate Pin\_Mapping keyword found. |
|  | | *The [Pin Mapping] section should be defined at most once within a component* |
| **E0526** | CMPNT\_ERR\_26 | ( line {lineNum} ) - [Diff Pin] keyword column count must be 3,5 or 6 found {numColumns} columns. |
|  | | *[UNUSED}* |
| **E0527** | CMPNT\_ERR\_27 | ( line {lineNum} ) - Duplicate Diff\_Pin keyword found. |
|  | | *A [Diff Pin] section should be defined at most once within a component* |
| **E0528** | CMPNT\_ERR\_28 | ( line {lineNum} ) - Unable to find column headers after {keyword} keyword. |
|  | | *If is one of Pin; Pin Mapping; Diff Pin or Series Pin Mapping then a set of column headers is expected but were not found* |
| **E0529** | CMPNT\_ERR\_29 | ( line {lineNum} ) - '{columnName}' column header not found or out of order. |
|  | | *A associated with a Pin; Pin Mapping; Diff Pin or Series Pin Mapping keyword was not found or found in the incorrect position* |
| **E0530** | CMPNT\_ERR\_30 | ( line {lineNum} ) - Unknown column header '{columnName}' or out of order. |
|  | | *A associated with a Pin; Pin Mapping; Diff Pin or Series Pin Mapping keyword was not recognized or found in an incorrect position* |
| **E0531** | CMPNT\_ERR\_31 | ( line {lineNum} ) - Duplicate column header '{columnName}' . |
|  | | *A associated with a Pin; Pin Mapping; Diff Pin or Series Pin Mapping keyword was specified more than once* |
| **E0532** | CMPNT\_ERR\_32 | ( line {lineNum} ) - {keyword} keyword column count must be {minHeaders} or {maxHeaders},found {actualHeaders} columns. |
|  | | *[UNUSED}* |
| **E0533** | CMPNT\_ERR\_33 | ( line {lineNum} ) - Unable to add data for {keyword} keyword. |
|  | | *There was an error trying to create the data structures associated with keyword* |
| **B0534** | CMPNT\_ERR\_34 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E0535** | CMPNT\_ERR\_35 | ( line {lineNum} ) - Unknown Line after Component Description |
|  | | *A Timing\_location or SI\_location line was expected* |
| **B0536** | CMPNT\_ERR\_36 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **E0537** | CMPNT\_ERR\_37 | ( line {lineNum} ) - {subparam} Already Defined For Component '{compName}' |
|  | | *The subparameter (SI\_location or Timing\_location) was already defined for component* |
| **E0538** | CMPNT\_ERR\_38 | ( line {lineNum} ) - '{subparam}' Subparameter Missing Setting |
|  | | *The subparameter (SI\_location or Timing\_location) did not have a value associated with it* |
| **E0539** | CMPNT\_ERR\_39 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E0540** | CMPNT\_ERR\_40 | "( line {lineNum} ) - Invalid {subparam/keyword} (\""{badValue}\"") (try \""{options}\"")" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E0541** | CMPNT\_ERR\_41 | "( line {lineNum} ) - Invalid {subparam} (\""{badValue}\"")" |
|  | | *"The subparameter (Si\_location or Timing\_location) has an invalid value specified. Should be ""Die"" or ""Pin""."* |
| **E0542** | CMPNT\_ERR\_42 | ( line {lineNum} ) - Duplicate Series\_Pin\_Mapping keyword found. |
|  | | *A [Series Pin Mapping] section should be defined at most once in a component* |
| **E0543** | CMPNT\_ERR\_43 | ( line {lineNum} ) - Unknown column header after 'function\_table\_group' |
|  | | *An unknown columnHeader was found after the 'function\_table\_group' header on the [Series Pin Mapping] keyword line* |
| **E0544** | CMPNT\_ERR\_44 | TBD: Put this in model check,\*\_DIFF without external model |
|  | | *A Diff model type should have an External Model defined* |
| **E0545** | CMPNT\_ERR\_45 | Component pin model type using [External Model] without corresponding [Diff\_Pin] |
|  | |  |
| **E0546** | CMPNT\_ERR\_46 | ( line {lineNum} ) - Duplicate [Series\_Switch\_Groups] keyword found. |
|  | | *A [Series Switch Groups] section should be defined at most once in a component* |
| **B0547** | CMPNT\_ERR\_47 | {sourceFile}:{sourceLinenum}:Unable to get Components. |
|  | | *Program data structures are corrupt in program file* |
| **E0548** | CMPNT\_ERR\_48 | ( line {lineNum} ) - Duplicate Node Declaration keyword found. |
|  | | *A [Node Declaration] section is already defined for the component* |
| **E0549** | CMPNT\_ERR\_49 | ( line {lineNum} ) - Unable to create new NODE LIST. |
|  | | *The code failed to allocate the required memory* |
| **E0550** | CMPNT\_ERR\_50 | ( line {lineNum} ) - Unable to create new Circuit Call (malloc). |
|  | | *Memory allocation for a new Circuit Call failed* |
| **U0551** | CMPNT\_ERR\_51 | [End Emi Component] Keyword expected |
|  | | *[UNUSED}* |
| **U0552** | CMPNT\_ERR\_52 | Unexpected [End Emi Component] Keyword |
|  | | *[UNUSED}* |
| **E0553** | CMPNT\_ERR\_53 | ( line {lineNum} ) - Unexpected Keyword in a [Component EMI] block |
|  | | *The only keywords allowed within a [Begin EMI Component] block are [Pin EMI] and [Pin Domain EMI] but an unexpected keyword was found* |
| **E0554** | CMPNT\_ERR\_54 | ( line {lineNum} ) - Duplicate Repeater\_Pin keyword found. |
|  | | *Only a single [Repeater\_Pin] section is allowed in a component* |
| **E0600** | PIN\_ERR\_0 | ( line {lineNum} ) - Unable to add the line of Pin data. |
|  | | *Memory allocation failed when trying to create the data structures for a Pin* |
| **E0601** | PIN\_ERR\_1 | ( line {lineNum} ) - Pin not found. |
|  | | *A Pin was not specified in a data line in the [Pin] Section* |
| **E0602** | PIN\_ERR\_2 | ( line {lineNum} ) - Signal name not found. |
|  | | *The signal\_name was not specified in a data line in the [Pin] section* |
| **E0603** | PIN\_ERR\_3 | ( line {lineNum} ) - Model name not found. |
|  | | *The model\_name was not specified in a data line in the [Pin] section* |
| **E0604** | PIN\_ERR\_4 | ( line {lineNum} ) - Each line of Pin data must contain either 3 or 6 columns. |
|  | | *A data line in the [Pin] section should have either 3 (if the package parameters are not specified) or 6 (if the package parameters are specified) values* |
| **E0605** | PIN\_ERR\_5 | ( line {lineNum} ) - When using 6 columns, the headers R\_pin,L\_pin,and C\_pin must be listed. |
|  | | *If package parameters are specified for a pin in the [Pin] section; then the headers R\_pin; L\_pin and C\_pin must be specified on the [Pin] keyword line* |
| **E0606** | PIN\_ERR\_6 | ( line {lineNum} ) - Duplicate Pin '{pinName}'. |
|  | | *The same was defined more than once in the [Pin] section* |
| **B0607** | PIN\_ERR\_7 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E0608** | PIN\_ERR\_8 | Component '{compName}': Model '{modelName}' for Pin '{pinName}' not defined. |
|  | | *The model associated with pin for component was not defined elsewhere in the file* |
| **C0609** | PIN\_ERR\_9 | Pin {pinName} is not defined as a Diff Pin though the associated Model Selector {modelSelectorName} was determined to be Differential |
|  | | *The pin is associated with a model selector which was found to be associated with a differential model but the pin is not defined as a differential pin* |
| **E0610** | PIN\_ERR\_10 | Component '{compName}': Pin '{pinName}': Model '{modelName}': model type for a Pin cannot be Series or Series\_switch. |
|  | | *[UNUSED}* |
| **C0611** | PIN\_ERR\_11 | Pin {pinName} is not defined as a Diff Pin though the associated Model {modelName} was determined to be Differential |
|  | | *The pin is associated with a model which was found to be differential but the pin is not defined as a differential pin* |
| **E0612** | PIN\_ERR\_12 | Component '{compName}': Pin '{pinName}' not referenced in Pin Mappings. |
|  | | *The Pin of Component is not referenced in the component's [Pin Mapping] section* |
| **E0613** | PIN\_ERR\_13 | Pin '{pinName}' found in Package\_Model '{pkgName}' Pin\_Numbers list not found in Component '{compName}' Pin list. |
|  | | *The Pin was referenced in the [Pin Numbers] section of the package model but is not defined in the [Pin] section of the associated component* |
| **E0614** | PIN\_ERR\_14 | ( line {lineNum} ) - Unable to allocate new PIN. |
|  | | *Memory allocation for a new pin failed while trying to parse the [Pin] section* |
| **E0615** | PIN\_ERR\_15 | Pin {pinName} referenced in the [Merged Pins] section of Package {pkgName} is not defined as POWER or GND in Component {compName} Pin list |
|  | | *The Pin is referenced in the [Merged Pins] section of Package pkgName of Component but is not defined as a POWER or GND pin in the [Pins] section of the component* |
| **E0616** | PIN\_ERR\_16 | Pin {pinName} referenced in the [Merged Pins] section of Package {pkgName} is not defined in Component {compName} Pin list |
|  | | *The Pin is referenced in the [Merged Pins] section of Package pkgName of Component but is not defined as a Pin in the [Pins] section of the component* |
| **E0617** | PIN\_ERR\_17 | Component {compName}: {type} Pin {pinName} referenced in the [Merged Pins] section of Package {pkgName} is merged with a {type} Pin {pinNameMerged} |
|  | | *In Component and Package ; a Pin of POWER is merged with a Pin of GND or a Pin of GND is merged with a Pin of POWER* |
| **E0618** | PIN\_ERR\_18 | [Component] {compName} with [Package Model] {pkgName} has pin and pad mismatch because [Merged Pins] pins ({mergingPin}, {mergedPin}) point to different buses ({mergingPinBus},{mergedPinBus}) in [Pin Mapping] |
|  | | *In Component and Package ; a Pin is merged with a Pin but they are connected to different busses ; in the [Pin Mapping] section* |
| **E0619** | PIN\_ERR\_19 | [Package Model] {pkgName} with [Merged Pins] requires [Pin Mapping] in [Component] {compName} |
|  | | *The Package in Component has a [Merged Pins] section but no [Pin Mapping] section* |
| **E0700** | PINMPG\_ERR\_0 | ( line {lineNum} ) - Extra data columns on this line. |
|  | | *There was some extraneous data specified at the end of the data line in the [Pin Mapping] section* |
| **E0701** | PINMPG\_ERR\_1 | ( line {lineNum} ) - No Pin number. |
|  | | *A pin number was not specified on a data line in the [Pin Mapping] section* |
| **E0702** | PINMPG\_ERR\_2 | ( line {lineNum} ) - No pulldown\_ref data. |
|  | | *The pulldown reference was not specified on a data line in the [Pin Mapping] section* |
| **E0703** | PINMPG\_ERR\_3 | ( line {lineNum} ) - No pullup\_ref data. |
|  | | *The pullup reference was not specified on a data line in the [Pin Mapping] section* |
| **E0704** | PINMPG\_ERR\_4 | ( line {lineNum} ) - Pin Mapping data lines must contain either 3,5 or 6 columns. |
|  | | *A data line in the [Pin Mapping] section should contain 3 entries (when the pin number; pullup reference and pulldown reference are specified) or 5 entries ( when the external reference is not specified) and 6 entries when the pin number; pulldown reference; pullup reference; gnd clamp reference; power clamp reference and external reference are all specified)* |
| **E0705** | PINMPG\_ERR\_5 | ( line {lineNum} ) - Pin Mapping data lines must contain either 3 or 5 columns. |
|  | | *In IBIS versions earlier than 4.1; a data line in the [Pin Mapping] section should contain 3 entries (when the pin number; pullup reference and pulldown reference are only specified) or 5 entries ( when the pin number; pullup reference; pulldown reference; power clamp reference and gnd clamp reference are specified)* |
| **E0706** | PINMPG\_ERR\_6 | ( line {lineNum} ) - When 5 columns are specified,the headings gnd\_clamp\_ref and power\_clamp\_ref must be used. |
|  | | *The column headings gnd\_clamp\_ref and power\_clamp\_ref must be specified on the [Pin Mapping] keyword line when a data line contains 5 etnries* |
| **E0707** | PINMPG\_ERR\_7 | ( line {lineNum} ) - When 6 columns are specified,the headings gnd\_clamp\_ref, power\_clamp\_ref and ext\_ref must be used. |
|  | | *The column headings gnd\_clamp\_ref and power\_clamp\_ref and ext\_ref must be specified on the [Pin Mapping] keyword line when a data line contains 6 entries* |
| **E0708** | PINMPG\_ERR\_8 | ( line {lineNum} ) - Duplicate Pin Mapping Pin. |
|  | | *A pin must be referenced at most once within a [Pin Mapping] section* |
| **W0709** | PINMPG\_ERR\_9 | ( line {lineNum} ) - Component {compName} Pin {pinName} is a POWER pin. Usually only has Pullup\_ref in Pin Mapping |
|  | | *Pin of Component has a model type of POWER and hence should only have a Pullup\_ref associated with it in the [Pin Mapping] section* |
| **W0710** | PINMPG\_ERR\_10 | ( line {lineNum} ) - Pin {pinName} is a POWER pin. Usually only has Pullup\_ref in Pin Mapping |
|  | | *Pin has a model type of POWER and hence should only have a Pullup\_ref associated with it in the [Pin Mapping] section* |
| **W0711** | PINMPG\_ERR\_11 | ( line {lineNum} ) - Component {compName} Pin {pinName} is a GND pin. Usually only has Pulldown\_ref in Pin Mapping |
|  | | *Pin of Component has a model type of GND and hence should only have a Pulldown\_ref associated with it in the [Pin Mapping] section* |
| **W0712** | PINMPG\_ERR\_12 | ( line {lineNum} ) - Pin {pinName} is a GND pin. Usually only has Pulldown\_ref in Pin Mapping |
|  | | *Pin has a model type of GND and hence should only have a Pulldown\_ref associated with it in the [Pin Mapping] section* |
| **W0713** | PINMPG\_ERR\_13 | ( line {lineNum} ) - Component {compName} Pin {pinName} is NC. Should not have any references in Pin Mapping |
|  | | *The pin in Component is of model type NC and hence should not be associated with any references in the [Pin Mapping] section* |
| **W0714** | PINMPG\_ERR\_14 | ( line {lineNum} ) - Pin {pinName} is NC. Should not have any references in Pin Mapping |
|  | | *The pin is of model type NC and hence should not be associated with any references in the [Pin Mapping] section* |
| **E0715** | PINMPG\_ERR\_15 | Component '{compName}': Pin Mapping Pin '{pinName}' not previously declared in Pin section. |
|  | | *The pin has been referenced in the [Pin Mapping] section of component but the pin has no definition in the [Pin] section of the component* |
| **E0716** | PINMPG\_ERR\_16 | Component '{compName}': Pin Mapping pulldown\_ref entry '{pdRef}' is not connected to at least one pin whose model\_name is POWER or GND. |
|  | | *In component ; the pull down reference in the [Pin Mapping] section is not associated with a pin whose model is POWER or GND* |
| **C0717** | PINMPG\_ERR\_17 | Component '{compName}': Pin Mapping '{pdRef}': pulldown\_ref entry is usually connected to GND. |
|  | | *In component ; the pull down reference in the [Pin Mapping] section is associated with a pin whose model is POWER; but the expectation is that it would be associated with a pin whose model is GND* |
| **C0718** | PINMPG\_ERR\_18 | Component {compName}: Pulldown Reference {pdRef} is also used as a Pullup Reference |
|  | | *In component ; in the [Pin Mapping] section; the pulldown reference is also used as a pullup reference. This message is only generated for IBIS versions >= 4.* |
| **C0719** | PINMPG\_ERR\_19 | Pulldown Reference {pdRef} is also used as a Pullup Reference |
|  | | *In the [Pin Mapping] section; the pulldown reference is also used as a pullup reference. This message is only generated for IBIS versions < 4.* |
| **E0720** | PINMPG\_ERR\_20 | Component '{compName}': Pin Mapping pullup\_ref entry '{puRef}' is not connected to at least one pin whose model\_name is POWER or GND. |
|  | | *In component ; the pull up reference in the [Pin Mapping] section is not associated with a pin whose model is POWER or GND* |
| **C0721** | PINMPG\_ERR\_21 | Component '{compName}': Pin Mapping '{puRef}': pullup\_ref entry is usually connected to POWER. |
|  | | *In component ; the pull up reference in the [Pin Mapping] section is associated with a pin whose model is GND; but the expectation is that it would be associated with a pin whose model is POWER* |
| **E0722** | PINMPG\_ERR\_22 | Component '{compName}': Pin Mapping gnd\_clamp\_ref entry '{gcRef}' is not connected to at least one pin whose model\_name is POWER or GND. |
|  | | *In component ; the gnd clamp reference in the [Pin Mapping] section is not associated with a pin whose model is POWER or GND* |
| **C0723** | PINMPG\_ERR\_23 | Component '{compName}': Pin Mapping '{gcRef}': gnd\_clamp\_ref entry is usually connected to GND. |
|  | | *In component ; the gnd clamp reference in the [Pin Mapping] section is associated with a pin whose model is POWER; but the expectation is that it would be associated with a pin whose model is GND* |
| **E0724** | PINMPG\_ERR\_24 | Component '{compName}': Pin Mapping power\_clamp\_ref entry '{pcRef}' is not connected to at least one pin whose model\_name is POWER or GND. |
|  | | *In component ; the power clamp reference in the [Pin Mapping] section is not associated with a pin whose model is POWER or GND* |
| **C0725** | PINMPG\_ERR\_25 | Component '{compName}': Pin Mapping '{pcRef}': power\_clamp\_ref entry is usually connected to POWER. |
|  | | *In component ; the power clamp reference in the [Pin Mapping] section is associated with a pin whose model is GND but the expectation is that it would be associated with a pin whose model is POWER* |
| **E0726** | PINMPG\_ERR\_26 | Component '{compName}': Pin Mapping ext\_ref entry '{extRefName}' is not connected to at least one pin whose model\_name is POWER or GND. |
|  | | *In component ; the external reference in the [Pin Mapping] section is not associated with a pin whose model is POWER or GND* |
| **C0727** | PINMPG\_ERR\_27 | Component '{compName}': Pin Mapping '{extRefName}': ext\_ref entry is usually connected to POWER. |
|  | | *In component ; the external reference in the [Pin Mapping] section is associated with a pin whose model is GND but the expectation is that it would be associated with a pin whose model is POWER* |
| **E0728** | PINMPG\_ERR\_28 | ( line {lineNum} ) - Unable to alloc new PINMPG. |
|  | | *Memory allocation failed when trying to create the data structures for a [Pin Mapping]* |
| **E0729** | PINMPG\_ERR\_29 | ( line {lineNum} ) - {badValue} is an invalid Pin\_Mapping column entry. |
|  | | *"A ""NA"" has been specified on a row in the [Pin Mapping] section"* |
| **E0800** | DIFPIN\_ERR\_0 | ( line {lineNum} ) - Unable to alloc DIFPIN. |
|  | | *Memory allocation failed when trying to create the data structures for a [Diff Pin]* |
| **E0801** | DIFPIN\_ERR\_1 | ( line {lineNum} ) - Too many Diff Pin data columns. |
|  | | *There are two many tokens on a data line in the [Diff Pin] section* |
| **E0802** | DIFPIN\_ERR\_2 | ( line {lineNum} ) - No Diff\_Pin column entry. |
|  | | *Diff\_pin was not specified on a data line in the [Diff Pin] section* |
| **E0803** | DIFPIN\_ERR\_3 | ( line {lineNum} ) - No inv\_pin column entry. |
|  | | *inv\_pin was not specified on a data line in the [Diff Pin] section* |
| **E0804** | DIFPIN\_ERR\_4 | ( line {lineNum} ) - Diff\_Pin column pin same as inv\_pin column pin. |
|  | | *The diff pin and the inv pin on a data line in the [Diff Pin] section should not be the same* |
| **E0805** | DIFPIN\_ERR\_5 | ( line {lineNum} ) - No vdiff column entry. |
|  | | *Vdiff was not specified on a data line in the [Diff Pin] section* |
| **E0806** | DIFPIN\_ERR\_6 | ( line {lineNum} ) - No tdelay\_typ column entry. |
|  | | *tdelay\_typ was not specified on a data line in the [Diff Pin] section* |
| **W0807** | DIFPIN\_ERR\_7 | ( line {lineNum} ) - Typ value is not in between Min and Max |
|  | | *The tdelay\_typ value does not lie between the min and max values in a [Diff Pin] section* |
| **E0808** | DIFPIN\_ERR\_8 | ( line {lineNum} ) - Diff\_Pin data line column count must be 4 or 6. |
|  | | *A data line in the [Diff Pin] section should contain 6 colums; ie; Diff\_pin; inv\_pin; vdiff; tdelay\_typ; tdelay\_min; tdelay\_max or 4 columns; ie; Diff\_pin; inv\_pin; vdiff; tdelay\_typ* |
| **E0809** | DIFPIN\_ERR\_9 | ( line {lineNum} ) - When using 6 columns,the tdelay\_min and tdelay\_max headers must be used. |
|  | | *A data line in the [Diff Pin] section contains 6 values but only 4 headers were specified on the keyword line* |
| **E0810** | DIFPIN\_ERR\_10 | Component '{compName}': Diff\_Pin '{pinName}' not previously declared in Pin section. |
|  | | *The pin was referred to in the [Diff Pin] section of component but not defined in the [Pin] section of the component* |
| **E0811** | DIFPIN\_ERR\_11 | Component '{compName}': inv\_pin '{pinName}' not previously declared in Pin section. |
|  | | *The pin was referred to in the [Inv Pin] section of component but not defined in the [Pin] section of the component* |
| **W0812** | DIFPIN\_ERR\_12 | Component '{compName}': Diff\_Pin '{pinName}' is not unique. |
|  | | *The Diff\_pin has been referenced more than once in the [Diff Pin] section of component* |
| **E0813** | DIFPIN\_ERR\_13 | Component '{compName}': Inv\_pin '{pinName}' already in use as a Diff\_pin. |
|  | | *The inv\_pin has been referenced as a Diff\_pin in the [Diff Pin] section of component* |
| **E0814** | DIFPIN\_ERR\_14 | Component '{compName}': Diff\_pin '{pinName}' already in use as an inv\_pin. |
|  | | *The Diff\_pin has been referenced as an inv\_pin in the [Diff Pin] section of component* |
| **W0815** | DIFPIN\_ERR\_15 | Component '{compName}': inv\_pin '{pinName}' is not unique. |
|  | | *The inv\_pin has been referenced more than once in the [Diff Pin] section of component* |
| **E0816** | DIFPIN\_ERR\_16 | ( line {lineNum} ) - Bad value for {columnName} column. |
|  | | *One fo the numeric values of tdelay column has invalid syntax* |
| **W0817** | DIFPIN\_ERR\_17 | ( line {lineNum} ) - Suspicious value for {columnName} column. |
|  | | *One fo the numeric values of tdelay column has a bad scale factor perhaps* |
| **B0818** | DIFPIN\_ERR\_18 | Unknown value returned by CMN\_GetValueOrNA(). {sourceFile} {sourceLinenum} |
|  | | *The code has a bug* |
| **E0900** | PARSE\_ERR\_0 | Could not determine Version for file {fileName} |
|  | | *There was an error parsing the IBIS File Version for the IBIS file* |
| **W0901** | PARSE\_ERR\_1 | Filename '{fileName}' should be lowercase |
|  | | *The input file name should only used lower case letters* |
| **E0902** | PARSE\_ERR\_2 | ( line {lineNum} ) - Non-comment line exists after 'End' keyword. |
|  | | *There should be no more no comment lines after the [End] keyword* |
| **E0903** | PARSE\_ERR\_3 | Required keyword 'End' not found. |
|  | | *The [End] keyword should be the last keyword in the IBIS file* |
| **B0904** | PARSE\_ERR\_4 | ( line {lineNum} ) - Unknown enumerated keyword code. |
|  | | *Internal data structures were found to be corrupt* |
| **E0905** | PARSE\_ERR\_5 | ( line {lineNum} ) - Exceeds {maxLineLength} chararacters. |
|  | | *[UNUSED}* |
| **E0906** | PARSE\_ERR\_6 | ( line {lineNum} ) - Keywords Must Begin In Column 1. |
|  | | *A keyword was found which did not start from the first column in a line* |
| **E0907** | PARSE\_ERR\_7 | ( line {lineNum} ) - Data for unknown keyword.\n{text} |
|  | | *The code has a bug trying to parse* |
| **B0908** | PARSE\_ERR\_8 | {sourceFile}:{sourceLinenum}:Unknown current keyword. |
|  | | *The code has a bug* |
| **E0909** | PARSE\_ERR\_9 | "( line {lineNum} ) - Previous keyword not terminated properly. Possibly missing a \""/\""\n" |
|  | | *A new keyword exists on a continuation line from a previous section* |
| **E0910** | PARSE\_ERR\_10 | ( line {lineNum} ) - Duplicate IBIS\_Ver keyword. |
|  | | *The [IBIS\_Ver] keyword was found more than once in the IBIS file* |
| **E0911** | PARSE\_ERR\_11 | ( line {lineNum} ) - Illegal keyword for a '.pkg' file. |
|  | | *A keyword found in a '.pkg' file ws not a valid keyword* |
| **E0912** | PARSE\_ERR\_12 | ( line {lineNum} ) - Illegal keyword for a '.ebd' file. |
|  | | *A keyword found in a '.ebd' file ws not a valid keyword* |
| **E0913** | PARSE\_ERR\_13 | ( line {lineNum} ) - Illegal keyword for a '.ibs' file. |
|  | | *A keyword found in a '.ibs' file ws not a valid keyword* |
| **E0914** | PARSE\_ERR\_14 | ( line {lineNum} ) - Keyword Missing Ending Bracket (']'). |
|  | | *A keyword should be terminated with a ']' character* |
| **E0915** | PARSE\_ERR\_15 | ( line {lineNum} ) - Invalid Keyword. |
|  | | *A keyword is found which is too long or an empty string* |
| **E0916** | PARSE\_ERR\_16 | ( line {lineNum} ) - Invalid Keyword: {keyword} |
|  | | *An unrecognized keyword was found* |
| **E0917** | PARSE\_ERR\_17 | ( line {lineNum} ) - Invalid Comment Character Definition. |
|  | | *The comment character was not defined properly ( possible missing the suffix \_char )* |
| **E0918** | PARSE\_ERR\_18 | ( line {lineNum} ) - Invalid Comment Character '{badChar}'. |
|  | | *"is not allowed as a valid comment character (cannot be any of these ""0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ[].\_/=+-"")"* |
| **E0919** | PARSE\_ERR\_19 | ( line {lineNum} ) - Too Many Line Items For Keyword COMMENT\_CHAR. |
|  | | *There is extraneous data on the [Comment Char] keyword line* |
| **E0920** | PARSE\_ERR\_20 | ( line {lineNum} ) - Extraneous data on End keyword line. |
|  | | *The [End] keyword should not have any other data after it* |
| **W0921** | PARSE\_ERR\_21 | ( line {lineNum} ) - IBIS files should not contain tab characters. |
|  | | *Tab characters should be avoided in an IBIS file* |
| **E0922** | PARSE\_ERR\_22 | Unable to Allocate Memory: {fileName} {lineNum} |
|  | | *The code failed to allocate memory* |
| **E0923** | PARSE\_ERR\_23 | Description line in file (at line no {lineNum}) is greater than {maxChars} characters |
|  | | *[UNUSED}* |
| **E0924** | PARSE\_ERR\_24 | Unterminated string detected. Possibly started at line {lineNum} |
|  | | *A string literal was not terminated in an AMI file ( it possibly originated at line )* |

## Message Codes 1000 to 1499

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **B1000** | HDR\_ERR\_0 | Unable to get ptr to IBIS struct? |
|  | | *Internal data structures were found to be corrupt* |
| **E1001** | HDR\_ERR\_1 | ( line {lineNum} ) - Orphan File Header keyword. |
|  | | *A header keyword [IBIS Ver]; [File Name]; [File Rev]; [Date]; [Source]; [Notes]; [Disclaimer]; [Copyright] was specified where it was not expected* |
| **E1002** | HDR\_ERR\_2 | ( line {lineNum} ) - Orphan Data Line. |
|  | | *A line was identified as a data line for a header keyword but the header definition is not in progress* |
| **B1003** | HDR\_ERR\_3 | ( line {lineNum} ) - Bad keyword type passed to hdr. |
|  | | *The code has a bug while parsing the header keywords* |
| **B1004** | HDR\_ERR\_4 | ( line {lineNum} ) - Bad line type passed to hdr. |
|  | | *The code has a bug while parsing the header keywords* |
| **E1005** | HDR\_ERR\_5 | ( line {lineNum} ) - Duplicate IBIS\_Ver keyword |
|  | | *The [IBIS\_Ver] keyword was found more than once in the input file* |
| **E1006** | HDR\_ERR\_6 | Unable to create new File Header structure. |
|  | | *The code failed to allocate the required memory* |
| **E1007** | HDR\_ERR\_7 | ( line {lineNum} ) - IBIS\_Version must be first keyword.\n |
|  | | *The first keyword in an IBIS file should be [IBIS Ver]* |
| **E1008** | HDR\_ERR\_8 | ( line {lineNum} ) - Illegal IBIS\_Version '{badVersion}'. |
|  | | *An invalid version was specified as the IBIS version* |
| **E1009** | HDR\_ERR\_9 | ( line {lineNum} ) - Duplicate File\_name keyword. |
|  | | *The [File Name] keyword was found more than once in the input file* |
| **E1010** | HDR\_ERR\_10 | File\_name '{fileName}' contains an upper case character '{character}'. |
|  | | *Input file name should only used lower case characters but an upper case character was found* |
| **E1011** | HDR\_ERR\_11 | File\_name '{fileName}' contains a character '{character}' that is illegal for DOS. |
|  | | *Input file name contains a character that is not allowed in DOS/Windows* |
| **E1012** | HDR\_ERR\_12 | File\_name '{fileName}' contains more than one period. |
|  | | *Input file name contains more than one period '.' character* |
| **E1013** | HDR\_ERR\_13 | File\_name '{fileName}' must contain one period. |
|  | | *Input file name contains no period '.' characters* |
| **E1014** | HDR\_ERR\_14 | ( line {lineNum} ) - File name opened '{actualFileName}' not the same as File\_name '{keywordFileName}'. |
|  | | *The file name that was providing on the command line to the parser; is not the same as the file name specified with the [File Name] keyword* |
| **E1015** | HDR\_ERR\_15 | ( line {lineNum} ) - Duplicate File\_Rev keyword. |
|  | | *The [File Rev} keyword was found more than once in the input file* |
| **E1016** | HDR\_ERR\_16 | ( line {lineNum} ) - Duplicate Date keyword. |
|  | | *The [Date} keyword was found more than once in the input file* |
| **E1017** | HDR\_ERR\_17 | ( line {lineNum} ) - Duplicate Source keyword. |
|  | | *The [Source] keyword was found more than once in the input file* |
| **E1018** | HDR\_ERR\_18 | ( line {lineNum} ) - Duplicate Notes keyword. |
|  | | *The [Notes] keyword was found more than once in the input file* |
| **E1019** | HDR\_ERR\_19 | ( line {lineNum} ) - Duplicate Copyright keyword. |
|  | | *The [Copyright] keyword was found more than once in the input file* |
| **E1020** | HDR\_ERR\_20 | ( line {lineNum} ) - Unable to add text. |
|  | | *The code failed to allocate the required memory* |
| **E1100** | CRV\_ERR\_0 | ( line {lineNum} ) - {curveName} Already Defined |
|  | | *The curve has already been defined* |
| **B1101** | CRV\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B1102** | CRV\_ERR\_2 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B1103** | CRV\_ERR\_3 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E1104** | CRV\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **B1105** | CRV\_ERR\_5 | Out of Memory |
|  | | *The code failed to allocate the required memory* |
| **E1106** | CRV\_ERR\_6 | ( line {lineNum} ) - Voltage Value Cannot Be 'NA' |
|  | | *The Voltage value has to be specified as a numeric value in a data line for a curve* |
| **E1107** | CRV\_ERR\_7 | ( line {lineNum} ) - More Than {maxPoints} Voltage Points Provided For {curveName} |
|  | | *More than data points (ie; 100) were sepcified for curve* |
| **E1108** | CRV\_ERR\_8 | Require at least 2 Voltage Points for {lineNum} Beginning at Line {curveName} |
|  | | *The curve defined on line has less than 2 data points* |
| **E1109** | CRV\_ERR\_9 | {First|Last} {Typ|Min|Max} Value Cannot Be 'NA' for {curveName} Beginning at Line {lineNum} |
|  | | *A general message indicating that the (the first or the last) (typValue; min or max) value for the curve defined on line cannot be NA* |
| **N1110** | CRV\_ERR\_10 | ( line {lineNum} ) - {curveName} {Typ|Min|Max} data is non-monotonic |
|  | | *The is non monotonic* |
| **W1111** | CRV\_ERR\_11 | {label} {name}: {curveName} has Decreasing Current |
|  | | *A general message indicating that the section with name has a curve which has decreasing current* |
| **W1112** | CRV\_ERR\_12 | {label} {name}: {curveName} has Increasing Current |
|  | | *A general message indicating that the section with name has a curve which has increasing current* |
| **W1113** | CRV\_ERR\_13 | {label} {name}: {curveName} : Typical value never becomes zero |
|  | | *A general message indicating that the section with name has a curve whose typical current never becomes zero* |
| **W1114** | CRV\_ERR\_14 | {label} {name}: {curveName} : Minimum value never becomes zero |
|  | | *A general message indicating that the section with name has a curve whose minimum current never becomes zero* |
| **W1115** | CRV\_ERR\_15 | {label} {name}: {curveName} : Maximum value never becomes zero |
|  | | *A general message indicating that the section with name has a curve whose maximum current never becomes zero* |
| **E1200** | PKG\_ERR\_0 | ( line {lineNum} ) - Unable to allocate a Package |
|  | | *Memory allocation for a Package while parsing the [Package] section* |
| **E1201** | PKG\_ERR\_1 | ( line {lineNum} ) - Package sub-parameters must start in column 1. |
|  | | *The package sub parameters R\_pkg; L\_pkg; C\_pkg should be defined starting at column 1* |
| **E1202** | PKG\_ERR\_2 | ( line {lineNum} ) - Expected {expected} columns in Package sub-parameter line,found {actualColumns} columns. |
|  | | *Each data line in a [Package] section should have (ie; 4) number of values but number were specified* |
| **E1203** | PKG\_ERR\_3 | ( line {lineNum} ) - Duplicate R\_pkg sub-parameter. |
|  | | *The R\_pkg subparameter was multiply defined* |
| **E1204** | PKG\_ERR\_4 | ( line {lineNum} ) - Duplicate L\_pkg sub-parameter. |
|  | | *The L\_pkg subparameter was multiply defined* |
| **E1205** | PKG\_ERR\_5 | ( line {lineNum} ) - Duplicate C\_pkg sub-parameter. |
|  | | *The C\_pkg subparameter was multiply defined* |
| **E1206** | PKG\_ERR\_6 | ( line {lineNum} ) - Unknown Package subparameter. |
|  | | *An unknown subparameter was specified in the [Package] section* |
| **E1207** | PKG\_ERR\_7 | ( line {lineNum} ) - Unable to parse data for Package subparameter '{subparam}'. |
|  | | *A generic error message which indicates that a parsing error related to* |
| **B1208** | PKG\_ERR\_8 | ( line {lineNum} ) - Unknown Package subparameter |
|  | | *The code which handles Package sub parameters has a bug* |
| **E1209** | PKG\_ERR\_9 | ( line {lineNum} ) - The typical column must be specified. |
|  | | *The typical column for a Package subparameter should be specified as a numeric value* |
| **E1210** | PKG\_ERR\_10 | ( line {lineNum} ) - The minimum column must be specified or NA. |
|  | | *The minimum column for a Package subparameter should be specified as a numeric value or as NA* |
| **E1211** | PKG\_ERR\_11 | ( line {lineNum} ) - The maximum column must be specified or NA. |
|  | | *The maximum column for a Package subparameter should be specified as a numeric value or as NA* |
| **E1212** | PKG\_ERR\_12 | ( line {lineNum} ) - Required sub-parameter R\_pkg not found. |
|  | | *[UNUSED}* |
| **E1213** | PKG\_ERR\_13 | Component '{compName}': Required sub-parameter R\_pkg not found. |
|  | | *The R\_pkg subparameter was not defined in the [Pacakge] section for component* |
| **E1214** | PKG\_ERR\_14 | ( line {lineNum} ) - Required sub-parameter L\_pkg not found. |
|  | | *[UNUSED}* |
| **E1215** | PKG\_ERR\_15 | Component '{compName}': Required sub-parameter L\_pkg not found. |
|  | | *The L\_pkg subparameter was not defined in the [Pacakge] section for component* |
| **E1216** | PKG\_ERR\_16 | ( line {lineNum} ) - Required sub-parameter C\_pkg not found. |
|  | | *[UNUSED}* |
| **E1217** | PKG\_ERR\_17 | Component '{compName}': Required sub-parameter C\_pkg not found. |
|  | | *The C\_pkg subparameter was not defined in the [Pacakge] section for component* |
| **E1300** | RAMP\_ERR\_0 | ( line {lineNum} ) - Ramp Already Defined |
|  | | *A [Ramp] section can only be defined once in a model* |
| **B1301** | RAMP\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B1302** | RAMP\_ERR\_2 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B1303** | RAMP\_ERR\_3 | Unable to Parse {errorString}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E1304** | RAMP\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E1305** | RAMP\_ERR\_5 | ( line {lineNum} ) - Unknown Line Among Ramp Data |
|  | | *An unrecognized line was found in the [Ramp] section* |
| **E1306** | RAMP\_ERR\_6 | {lineNum} Not Defined For Ramp Beginning on Line {paramName} |
|  | | *The parameter was not specified for the [Ramp] section defined on line* |
| **E1307** | RAMP\_ERR\_7 | ( line {lineNum} ) - {paramName} Already Defined For Model '{modelName}' |
|  | | *The [Ramp] section parameter is already defined in model* |
| **E1308** | RAMP\_ERR\_8 | ( line {lineNum} ) - No {Typ|Min|Max} Value Was Provided for {paramName} |
|  | |  |
| **E1309** | RAMP\_ERR\_9 | ( line {lineNum} ) - 'NA' not allowed for {paramName} Typical value |
|  | | *The typical value in a Range cannot be NA; but for [Ramp] parameter it is not so* |
| **E1310** | RAMP\_ERR\_10 | ( line {lineNum} ) - {dv\_dt} must be greater than 0 in a Ramp specification |
|  | | *The value for dv or dt in [Ramp] spec should be greater than 0 but it is not so for* |
| **W1311** | RAMP\_ERR\_11 | "( line {lineNum} ) - Suspicious {paramName} {columnName} Value (\""{actualValue}\""), Numeric in Scale" |
|  | | *The numeric value for a column of parameter was somewhat incorrect ( possibly in the scale factor) in a [Ramp] section* |
| **E1312** | RAMP\_ERR\_12 | "( line {lineNum} ) - Invalid {paramName} {rampColumn} Value (\""{actualValue}\"")" |
|  | | *The numeric value for a column of parameter was invalid in a [Ramp] section* |
| **E1313** | RAMP\_ERR\_13 | ( line {lineNum} ) - Invalid Ramp {Rload} Line |
|  | | *The syntax of the line in a [Ramp] section is invalid* |
| **E1314** | RAMP\_ERR\_14 | "( line {lineNum} ) - Invalid {Rload} Value (\""{value}\"")" |
|  | | *An invalid numberic value was found for in a [Ramp] section* |
| **B1400** | RNGP\_ERR\_0 | Unable to parse {subparam} arguments |
|  | |  |
| **E1401** | RNGP\_ERR\_1 | ( line {lineNum} ) - No {Typ|Min|Max} Value Was Provided for {subparam} |
|  | |  |
| **E1402** | RNGP\_ERR\_2 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **W1403** | RNGP\_ERR\_3 | ( line {lineNum} ) - Value {tableValue} repeated in the First Column |
|  | |  |
| **B1404** | RNGP\_ERR\_4 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |

## Message Codes 1500 to 1999

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **W1500** | ACDC\_ERR\_0 | Model '{model}': {Typ|Min|Max} VI curves cannot drive through Vmeas={Vmeas}V\n given load Rref={Rref} Ohms to Vref={Vref}V |
|  | |  |
| **W1501** | ACDC\_ERR\_1 | INFO: v\_dc L/H = {VdcLow} {VdcHigh}\n |
|  | | *[UNUSED}* |
| **W1502** | ACDC\_ERR\_2 | Model '{model}': {Typ|Min|Max} AC {Rise|Fall} Endpoints ({VacLow}V,{VacHigh}V) not within \n,{Vtol}V ({percTol}%) of ({VdcLow}V,{VdcHigh}V) on VI curves for {Rfixture} Ohms to {Vfixture}V |
|  | | *[UNUSED}* |
| **W1503** | ACDC\_ERR\_3 | Model {model}: The [{Rise|Fall} Waveform] \nwith [R\_fixture]={Rfixture} Ohms and [{Vfixture}]={Typ|Min|Max}V\nhas {VacLow} column DC endpoints of {VacHigh}V and \na difference of {percTol}% and {VdcLow}%%{VdcHigh}v,but\nan equivalent load applied to the model's I-V tables yields\ndifferent voltages ({diffLow}V and {diffHigh}V),respectively. |
|  | |  |
| **W1504** | ACDC\_ERR\_4 | Model '{modelName}': {Typ|Min|Max} AC {Rise|Fall} Endpoints ({VacLow}V,{VacHigh}V) \*ARE\* WITHIN \n,{Vtol}V ({percTol}%) of ({VdcLow}V,{VdcHigh}V) on VI curves for {Rfixture} Ohms to {Vfixture}V |
|  | | *[UNUSED}* |
| **W1505** | ACDC\_ERR\_5 | INFO low t/vac/vdc {TacLow} {VacLow} {VdcLow} high {TacHigh} {VacHigh} {VdcHigh} rfix vfix {Rfixture} {Vfixture}\n |
|  | | *[UNUSED}* |
| **W1506** | ACDC\_ERR\_6 | Model '{model}': Extreme currents present in {corner} {curveName} VI Curve ({current}A @ {voltage}V) |
|  | |  |
| **E1507** | ACDC\_ERR\_7 | Model '{model}': Currents <> 0.0mA in 'Pullup' for Open\_drain/Open\_sink device |
|  | |  |
| **E1508** | ACDC\_ERR\_8 | Model '{model}': Currents <> 0.0mA in 'Pulldown' for Open\_source device |
|  | |  |
| **N1509** | ACDC\_ERR\_9 | {process} {model} {curveName} data is non-monotonic |
|  | |  |
| **E1510** | ACDC\_ERR\_10 | Model '{modelName}': Currents <> 0.0mA in 'ISSO PU' for Open\_drain/Open\_sink device |
|  | |  |
| **E1511** | ACDC\_ERR\_11 | Model '{modelName}': Currents <> 0.0mA in 'ISSO PD' for Open\_source device |
|  | |  |
| **W1512** | ACDC\_ERR\_12 | """Model {modelName}: {Typ|Min|Max} {ISSO\_PD|PU} current ({current}A) at 0V is not within {percTol}% of {Pullup|Pulldown} current ({current}A) at reference ({PuPdRefV}V)""" |
|  | | *percTol = 5%* |
| **W1513** | ACDC\_ERR\_13 | """Model {modelName}: {Typ|Min|Max} {ISSO\_PD|PU} current ({current}A) at {Pullup|Pulldown} reference ({PuPdRefV}V) - table value ({voltage}V) is non-zero (> {maxCurrent}A)""" |
|  | |  |
| **C1514** | ACDC\_ERR\_14 | """[Ramp] dV ({RisedV|FalldV}V) not within {percentLimit}% of I-V table dV ({calcdV}V) calculation: Model {modelName}: Process: {Typ|Min|Max}: ({Rise|Fall})""" |
|  | | *[UNUSED}* |
| **W1515** | ACDC\_ERR\_15 | Model '{modelName}': {Typ|Min|Max} {Rising|Falling} VI curves cannot drive through Vmeas={Vmeas}V\ngiven load Rref={Rref} Ohms to Vref={Vref}V |
|  | |  |
| **E1600** | APKG\_ERR\_0 | ( line {lineNum} ) - Invalid Package Model name: '{modelName}' is too long. |
|  | |  |
| **E1601** | APKG\_ERR\_1 | ( line {lineNum} ) - Missing Package Model name |
|  | |  |
| **E1602** | APKG\_ERR\_2 | ( line {lineNum} ) - Unable to create new APKG. |
|  | |  |
| **E1603** | APKG\_ERR\_3 | ( line {lineNum} ) - Alternate Package Model has no package models defined |
|  | |  |
| **W1604** | APKG\_ERR\_4 | ( line {lineNum} ) - Alternate Package Model has only one package model defined |
|  | |  |
| **E1605** | APKG\_ERR\_5 | "( line {lineNum} ) - Package Model Name Previously Defined (\""{pkgModelName}\"")" |
|  | | *APKG\_ERR\_5* |
| **W1700** | CHK\_ERR\_0 | CMPT '{compName}',Pin '{pinName}': Pin Resistance {resistance} Ohms greater than {maxR} Ohms |
|  | | *The resistance of pin of component is greater than (5.0E+01)* |
| **W1701** | CHK\_ERR\_1 | CMPT '{compName}',Pin '{pinName}': Pin Inductance {inductance}nH greater than {maxL}nH |
|  | | *The inductance of pin of component is greater than (1.0E-03)* |
| **W1702** | CHK\_ERR\_2 | CMPT '{compName}',Pin '{pinName}': Pin Capacitance {capacitance}pF greater than {maxC}pF |
|  | | *The capacitance of pin of component is greater than (1.0E+06)* |
| **W1703** | CHK\_ERR\_3 | {modelSubmodel} '{modelName}': {Typ|Min|Max} {Rise|Fall} Ramptime {rampDt}nsec unusually large ( > {maxT}nsec ) |
|  | |  |
| **W1704** | CHK\_ERR\_4 | [Model] {modelName} has no description of the buffer's high state\nDC drive characteristics (no [Pullup] table). This warning\ncan be silenced by using an open drain Model\_type or by\nadding a [Pullup] table. |
|  | | *The [Pullup] table for model is missing* |
| **W1705** | CHK\_ERR\_5 | [Model] {modelName} has no description of the buffer's low state DC\ndrive characteristics (no [Pulldown] table). This warning\ncan be silenced by using an open source Model\_type or by\nadding a [Pulldown] table. |
|  | | *The [Pulldown] table for model is missing* |
| **W1706** | CHK\_ERR\_6 | [Model] {modelName} has no description of the buffer's low state DC\ndrive characteristics (no [Pulldown] table). This warning\ncan be silenced by changing the Model\_type or by adding a\n[Pulldown] table. |
|  | | *The [Pulldown] table for model is missing* |
| **W1707** | CHK\_ERR\_7 | [Model] {modelName} has no description of the buffer's high state\nDC drive characteristics (no [Pullup] table). This warning\ncan be silenced by changing the Model\_type or by adding a\n[Pullup] table. |
|  | | *The [Pullup] table for model is missing* |
| **E1708** | CHK\_ERR\_8 | Component : Duplicate Node Name |
|  | |  |
| **E1709** | CHK\_ERR\_9 | Component : Illegal Node: same as pin |
|  | |  |
| **W1710** | CHK\_ERR\_10 | CMPT '{compName}': Rpkg {Typ|Min|Max} value {Rpkg} Ohms not within expected range ({minR} Ohms,{maxR} Ohms) |
|  | | *[UNUSED}* |
| **W1711** | CHK\_ERR\_11 | CMPT '{compName}': Rpkg Max value < Min value |
|  | | *[UNUSED}* |
| **W1712** | CHK\_ERR\_12 | CMPT '{compName}': Lpkg {Typ|Min|Max} value {Lpkg}nH not within expected range ({minL}nH,{maxL}nH) |
|  | | *[UNUSED}* |
| **W1713** | CHK\_ERR\_13 | CMPT '{compName}': Lpkg Max value < Min value |
|  | | *[UNUSED}* |
| **W1714** | CHK\_ERR\_14 | CMPT '{compName}': Cpkg {Typ|Min|Max} value {Cpkg}pF not within expected range ({minC}pF,{maxC}pF) |
|  | | *[UNUSED}* |
| **W1715** | CHK\_ERR\_15 | CMPT '{compName}': Cpkg Max value < Min value |
|  | | *[UNUSED}* |
| **W1716** | CHK\_ERR\_16 | Model '{modelName}': C\_comp {Typ|Min|Max} value {Ccomp}pF out of expected range ({minC}pF, {maxC}pF) |
|  | | *[UNUSED}* |
| **W1717** | CHK\_ERR\_17 | Model '{modelName}': C\_comp\_pullup {Typ|Min|Max} value {Ccomp}pF out of expected range ({minC}pF,{maxC}pF) |
|  | | *[UNUSED}* |
| **W1718** | CHK\_ERR\_18 | Model '{modelName}': C\_comp\_pulldown {Typ|Min|Max} value {Ccomp}pF out of expected range ({minC}pF,{maxC}pF) |
|  | | *[UNUSED}* |
| **W1719** | CHK\_ERR\_19 | Model '{modelName}': C\_comp\_power\_clamp {Typ|Min|Max} value {Ccomp}pF out of expected range ({minC}pF, {maxC}pF) |
|  | | *[UNUSED}* |
| **W1720** | CHK\_ERR\_20 | Model '{modelName}': C\_comp\_gnd\_clamp {Typ|Min|Max} value {Ccomp}pF out of expected range ({minC}pF,{maxC}pF) |
|  | | *[UNUSED}* |
| **E1800** | CIRCUIT\_ERR\_0 | ( line {lineNum} ) - Too Many Signal Pins (only one instance of Signal\_pin,Diff\_signal\_pins, or Series\_pins is allowed) |
|  | |  |
| **E1801** | CIRCUIT\_ERR\_1 | ( line {lineNum} ) - Redundant use of port |
|  | |  |
| **E1802** | CIRCUIT\_ERR\_2 | ( line {lineNum} ) - Use of reserved port in Port Map |
|  | |  |
| **B1803** | CIRCUIT\_ERR\_3 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E1804** | CIRCUIT\_ERR\_4 | ( line {lineNum} ) - Illegal parameter |
|  | |  |
| **E1805** | CIRCUIT\_ERR\_5 | ( line {lineNum} ) - Not Enough arguments to {paramName} |
|  | |  |
| **E1806** | CIRCUIT\_ERR\_6 | ( line {lineNum} ) - Extra Charaters on PIN line |
|  | |  |
| **E1807** | CIRCUIT\_ERR\_7 | ( line {lineNum} ) - Missing port or pad name in Port\_map |
|  | |  |
| **E1808** | CIRCUIT\_ERR\_8 | (Line {lineNum}) No [External Circuit] {cktName} for [Circuit Call] |
|  | |  |
| **B1809** | CIRCUIT\_ERR\_9 | Node not found {nodeName} {sourceFile} {sourceLinenum}\n |
|  | | *[UNUSED}* |
| **B1810** | CIRCUIT\_ERR\_10 | should not be here {sourceFile} {sourceLinenum} |
|  | | *The code has a bug* |
| **B1811** | CIRCUIT\_ERR\_11 | should not be here |
|  | | *The code has a bug* |
| **B1812** | CIRCUIT\_ERR\_12 | should not get here |
|  | | *The code has a bug* |
| **B1813** | CIRCUIT\_ERR\_13 | should not be here {fileName} {lineNum} {sourceFile} {sourceLinenum}\n |
|  | | *The code has a bug* |
| **B1814** | CIRCUIT\_ERR\_14 | should not get here {sourceFile} {sourceLinenum} |
|  | | *The code has a bug* |
| **E1815** | CIRCUIT\_ERR\_15 | [CIRCUIT CALL] Line: Redundant use of port |
|  | |  |
| **E1816** | CIRCUIT\_ERR\_16 | CCALL Line A2D Line Illegal connection,2 analog reference/driver ports = = |
|  | |  |
| **E1817** | CIRCUIT\_ERR\_17 | Circuit Call Line {cktLinenum} instantiates External Circuit at {cktdefLinenum} with Floating Internal Node type {nodeType} |
|  | |  |
| **E1818** | CIRCUIT\_ERR\_18 | Internal Node ,External Circuit at {lineNum}: is analog and digital |
|  | |  |
| **E1819** | CIRCUIT\_ERR\_19 | CCALL Line A2D Line Illegal connection,\n2 analog reference/driver ports = ={temp1}{temp2} |
|  | |  |
| **B1820** | CIRCUIT\_ERR\_20 | should not get here {sourceFile} {sourceLinenum}\n |
|  | |  |
| **E1821** | CIRCUIT\_ERR\_21 | Component Floating Node (1 connection){cktCall} |
|  | |  |
| **W1822** | CIRCUIT\_ERR\_22 | Component Unused Node (0 connection){cktCall} |
|  | |  |
| **E1823** | CIRCUIT\_ERR\_23 | Component Floating Pin (no connections but used in CIRCIUT CALL) |
|  | |  |
| **E1824** | CIRCUIT\_ERR\_24 | Component {compName} Node : is analog and digital{digitalOrAnalog} |
|  | |  |
| **E1825** | CIRCUIT\_ERR\_25 | Component Node: has a digital receiver but no digital driver{portName} |
|  | |  |
| **W1826** | CIRCUIT\_ERR\_26 | Component Node: has a digital receiver but no obvious digital driver\nThis indicates connection to a AMS port that 'may' be digital {portName} |
|  | |  |
| **E1827** | CIRCUIT\_ERR\_27 | Component Node: has a digital driver but no digital receiver{portName} |
|  | |  |
| **W1828** | CIRCUIT\_ERR\_28 | Component Node: has a digital driver but no obvious digital receiver\nThis indicates connection to a AMS port that 'may' be digital {portName} |
|  | |  |
| **E1829** | CIRCUIT\_ERR\_29 | Component Node: has no defined drivers{portName} |
|  | |  |
| **E1830** | CIRCUIT\_ERR\_30 | Component Node: has a analog receiver but no analog driver{portName} |
|  | |  |
| **W1831** | CIRCUIT\_ERR\_31 | Component Node: has a analog receiver but no obvious analog driver\nThis indicates connection to a AMS port that 'may' be analog {portName} |
|  | |  |
| **E1832** | CIRCUIT\_ERR\_32 | Component Node: has a analog driver but no analog receiver{portName} |
|  | |  |
| **W1833** | CIRCUIT\_ERR\_33 | Component Node: has a analog driver but no obvious analog receiver\nThis indicates connection to a AMS port that 'may' be analog {portName} |
|  | |  |
| **E1834** | CIRCUIT\_ERR\_34 | Component Pin Used as Digital in CIRCUIT CALL(s)(pins are analog){portName} |
|  | |  |
| **E1835** | CIRCUIT\_ERR\_35 | is connect to a reserved port |
|  | | *[UNUSED}* |
| **E1836** | CIRCUIT\_ERR\_36 | Component Pin Used as Digital in CIRCUIT CALL(s)(pins are analog) |
|  | | *[UNUSED}* |
| **E1837** | CIRCUIT\_ERR\_37 | Component Node Used as Analog and Digital in CIRCUIT CALL(s) |
|  | | *[UNUSED}* |
| **E1838** | CIRCUIT\_ERR\_38 | (line {lineNum}) No [External Circuit] for [Circuit Call] {cktCall} in Component {compName} |
|  | |  |
| **E1839** | CIRCUIT\_ERR\_39 | CMPT ,[Circuit Call] at (line {cktLinenum}) refererences illegal pin: |
|  | |  |
| **E1840** | CIRCUIT\_ERR\_40 | [Circuit Call] at (line {lineNum}) first reference pin is not declared CIRCUITCALL in [Pin] section |
|  | |  |
| **E1841** | CIRCUIT\_ERR\_41 | [Circuit Call] at (line {lineNum}) second reference pin is not declared CIRCUITCALL in [Pin] section |
|  | |  |
| **E1842** | CIRCUIT\_ERR\_42 | CMPT ,[CIRCUIT CALL] at (line {lineNum}) references same pin twice: |
|  | |  |
| **E1843** | CIRCUIT\_ERR\_43 | CMPT ,[CIRCUIT CALL] at (line {lineNum}) no reference pin (need Signal\_pin, Diff\_signal\_pins,Series\_pins) |
|  | | *[UNUSED}* |
| **E1844** | CIRCUIT\_ERR\_44 | Circuit : Floating User Defined Digital Port |
|  | | *[UNUSED}* |
| **E1845** | CIRCUIT\_ERR\_45 | [Circuit Call] at (line {lineNum}),no port in [External Circuit] {cktCall} |
|  | |  |
| **E1846** | CIRCUIT\_ERR\_46 | [Circuit Call] at (line {lineNum}),no node/pin in Component {compName} |
|  | |  |
| **E1900** | CMN\_ERR\_0 | File Name Requires '.ibs' Extension. |
|  | | *The input file name was specified with an extension other than then the expected '.ibs'* |
| **E1901** | CMN\_ERR\_1 | Unable to append filename extension. |
|  | | *The input file name was specified without an extension but the base filename length and the '.ibs' extension length together become greater than the allowed filename length (ie; 1024 characters)* |
| **E1902** | CMN\_ERR\_2 | File Name Requires '.ebd' Extension. |
|  | | *The input file name was specified with an extension other than then the expected '.ebd'* |
| **E1903** | CMN\_ERR\_3 | File Name Requires '.pkg' Extension. |
|  | | *The input file name was specified with an extension other than then the expected '.pkg'* |
| **E1904** | CMN\_ERR\_4 | Unable to assemble filename. |
|  | | *The input file directory path length and the input filename length together become greater than the allowed filename length (ie; 1024 characters)* |
| **E1905** | CMN\_ERR\_5 | Unable To Open File '{filePath}{fileName}' |
|  | | *There was an error trying to open the file* |
| **E1906** | CMN\_ERR\_6 | Memory allocation failed. This request {size}.\n |
|  | | *The code failed to allocate bytes of memory* |
| **E1907** | CMN\_ERR\_7 | Memory reallocation failed. This request {size}.\n |
|  | | *The code failed to reallocate bytes of memory* |
| **B1908** | CMN\_ERR\_8 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E1909** | CMN\_ERR\_9 | "( line {lineNum} ) - Invalid {columnName} Value (\""{actualValue}\"")" |
|  | | *"A numeric value or ""NA"" was expected for column but the value specified was invalid"* |
| **W1910** | CMN\_ERR\_10 | "( line {lineNum} ) - Suspicious {columnName} {paramName} Value (\""{actualValue}\""), Numeric in Scale" |
|  | | *The numeric value for parameter was somewhat incorrect ( possibly in the scale factor)* |
| **E1911** | CMN\_ERR\_11 | ( line {lineNum} ) - Duplicate '{keyword}' keyword. |
|  | | *A keyword has been defined more than once* |
| **E1912** | CMN\_ERR\_12 | ( line {lineNum} ) - {keyword} string '{value}' is too long,truncating to {maxChars} characters. |
|  | | *The value specified for keyword was too long and was trucated to characters* |
| **E1913** | CMN\_ERR\_13 | ( line {lineNum} ) - Zero length value for keyword '{keyword}'. |
|  | | *The value specified for keyword was an empty string* |
| **E1914** | CMN\_ERR\_14 | ( line {lineNum} ) - {keyword} string '{value}' is too long,maximum length {maxChars} allowed. |
|  | | *The value specified for keyword was too long (more than characters)* |
| **E1915** | CMN\_ERR\_15 | Required keyword '{keyword}' not found in file '{fileName}'. |
|  | | *The mandatory keyword was not specified in input file* |
| **E1916** | CMN\_ERR\_16 | ( line {lineNum} ) - Illegal use of Reserved Word '{reservedWord}'. |
|  | | *A reserved word was used inappropriately* |
| **E1917** | CMN\_ERR\_17 | ( line {lineNum} ) - Found illegal {type} character (code {hexCode}).{message} |
|  | | *An invalid character of type of hex code was found in the input which could be converted to a space character as per the message* |
| **E1918** | CMN\_ERR\_18 | ( line {lineNum} ) - Unexpected '=' found |
|  | | *A character '=' was found where not expected* |
| **E1919** | CMN\_ERR\_19 | ( line {lineNum} ) - Unexpected token '{text}' found in R/L/C section |
|  | | *A token other than Len; R; L or C was found* |
| **E1920** | CMN\_ERR\_20 | ( line {lineNum} ) - Premature end of R/L/C section |
|  | | *A complete line was not specified* |
| **E1921** | CMN\_ERR\_21 | ( line {lineNum} ) - Error parsing R/L/C section. Missing '=' |
|  | | *The character '=' was expected but not found* |
| **E1922** | CMN\_ERR\_22 | ( line {lineNum} ) - Illegal number found '{text}' |
|  | | *An invalid numberic value was found* |
| **E1923** | CMN\_ERR\_23 | ( line {lineNum} ) - Numerical value expected |
|  | | *A number was expected but not found* |
| **E1924** | CMN\_ERR\_24 | File Name Requires '.ami' Extension. |
|  | | *"An AMI file name requires a "".ami"" extension"""* |

## Message Codes 2000 to 2499

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **E2000** | WVFRM\_ERR\_0 | ( line {lineNum} ) - More than 100 {rowType}s are defined |
|  | |  |
| **B2001** | WVFRM\_ERR\_1 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B2002** | WVFRM\_ERR\_2 | Unable to Parse {errorString}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2003** | WVFRM\_ERR\_3 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2004** | WVFRM\_ERR\_4 | {fixtureName} Not Defined For {waveName} Waveform Beginning on Line {lineNum} |
|  | | *Fixture (R\_fixture; V\_fixture) was not defined for waveform defined on line* |
| **E2005** | WVFRM\_ERR\_5 | Require at least 2 Data Points for {waveName} Waveform Beginning at Line {lineNum} |
|  | | *The waveform defined on line contains less than 2 points* |
| **E2006** | WVFRM\_ERR\_6 | {First|Last} {Typ|Min|Max} Value Cannot Be 'NA' for {waveName} Waveform Beginning at Line {lineNum} |
|  | | *A general message indicating that the (the first or the last) (typValue; min or max) value for the waveform defined on line cannot be NA* |
| **E2007** | WVFRM\_ERR\_7 | First {Typ|Min|Max} Value should be the same as the Last for {waveName} Waveform Beginning at Line {lineNum} |
|  | | *The first (typValue; minValue; max) value should be the same as the last value for the waveform (GND\_Pulse or POWER\_Pulse) defined on line* |
| **W2008** | WVFRM\_ERR\_8 | Found some {waveName} ({Typ|Min|Max}) offsets less than 0 for Table Beginning at Line {lineNum} |
|  | | *The waveform (GND Pulse Table) defined on line has some offsets less than 0* |
| **W2009** | WVFRM\_ERR\_9 | Found some {waveName} ({Typ|Min|Max}) offsets greater than 0 for Table Beginning at Line {lineNum} |
|  | | *The waveform (POWER Pulse Table) defined on line has some offsets greater than 0* |
| **E2010** | WVFRM\_ERR\_10 | ( line {lineNum} ) - SubParameters are not allowed in Golden Waveforms |
|  | | *No fixture or dut subparams can be specified for Golden Waveforms* |
| **E2011** | WVFRM\_ERR\_11 | ( line {lineNum} ) - Unknown Line Among {waveName} Data |
|  | | *A line was found in the Waveform which does not seem to be a valid line* |
| **B2012** | WVFRM\_ERR\_12 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E2013** | WVFRM\_ERR\_13 | ( line {lineNum} ) - {subparam} specified after beginning of timing data |
|  | | *A sub param was found after timing data was already specified* |
| **E2014** | WVFRM\_ERR\_14 | ( line {lineNum} ) - Duplicate definition for {keyword} {subparam} |
|  | | *The sub parameter was multiply defined in waveform* |
| **E2015** | WVFRM\_ERR\_15 | ( line {lineNum} ) - Invalid {keyword} line |
|  | | *A data line has a syntax error in waveform* |
| **W2016** | WVFRM\_ERR\_16 | "( line {lineNum} ) - Suspicious {waveName} {paramName} Value (\""{actualValue}\""), Numeric in Scale" |
|  | | *The numeric value for parameter of waveform was somewhat incorrect ( possibly in the scale factor)* |
| **E2017** | WVFRM\_ERR\_17 | "( line {lineNum} ) - Invalid {waveName} Value (\""{badValue}\"")" |
|  | | *A bad numeric value was found in waveform* |
| **E2018** | WVFRM\_ERR\_18 | ( line {lineNum} ) - More than {maxPoints} data points provided for {waveName} table |
|  | | *More than data points were sepcified for waveform* |
| **E2019** | WVFRM\_ERR\_19 | 'NA' not allowed for {lineNum} value |
|  | | *The Time value in a wavefrom cannot have a value which is NA* |
| **E2020** | WVFRM\_ERR\_20 | ( line {lineNum} ) - Time value did not increase |
|  | | *The Time values should always increase in a waveform* |
| **C2021** | WVFRM\_ERR\_21 | Model {modelName}: {Rise|Fall} Waveform [{waveNumber}] and its Composite Current don't have identical time points |
|  | | *"The ""Rising"" or ""Falling"" waveform ocurrence for model does not have identical timepoints with its [Composite Current] waveform"* |
| **B2100** | STRING\_ERR\_0 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B2101** | STRING\_ERR\_1 | Should not be here {sourceFile} {sourceLinenum} |
|  | | *The code has a bug* |
| **B2200** | TESTLOAD\_ERR\_0 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B2201** | TESTLOAD\_ERR\_1 | Unable to get IBIS structure |
|  | | *Program data structures are corrupt* |
| **E2202** | TESTLOAD\_ERR\_2 | ( line {lineNum} ) - Orphan Test Load keyword. |
|  | | *A [Test Load] keyword was found where not expected* |
| **E2203** | TESTLOAD\_ERR\_3 | ( line {lineNum} ) - Orphan data line keyword. |
|  | | *A data line for a [Test Load] keyword was found when no [Test Load] section was active* |
| **B2204** | TESTLOAD\_ERR\_4 | {sourceFile}:{sourceLinenum}:Illegal keyword. |
|  | | *Program data structures are corrupt in program file* |
| **E2205** | TESTLOAD\_ERR\_5 | ( line {lineNum} ) - Orphan Data line. |
|  | | *A data line for a [Test Load] keyword was found when no [Test Load] section was active* |
| **B2206** | TESTLOAD\_ERR\_6 | Unable to eat keyword : {sourceFile} {sourceLinenum} |
|  | | *The code has a bugwhen trying to parse Testload* |
| **E2207** | TESTLOAD\_ERR\_7 | Unable to Save Test Load Name |
|  | | *The code could not allocate the required memory* |
| **E2208** | TESTLOAD\_ERR\_8 | ( line {lineNum} ) - 'Test Load' Keyword Missing name |
|  | | *The name was not specified on the [Test Load] keyword line* |
| **E2209** | TESTLOAD\_ERR\_9 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For Keyword {keyword}: Expecting {numberOfItemsExpected} |
|  | | *The keyword should have had items on the keyword line but only number of data items were found* |
| **E2210** | TESTLOAD\_ERR\_10 | ( line {lineNum} ) - Test Load Name Over {maxLength} Characters Long |
|  | | *The name specified on the [Test Load] line is greater than (109) characters* |
| **E2211** | TESTLOAD\_ERR\_11 | "( line {lineNum} ) - Invalid Test Load Name (\""{name}\""), Reserved Word." |
|  | | *A reserved word was used as the name for a [Test Load] section name* |
| **E2212** | TESTLOAD\_ERR\_12 | "( line {lineNum} ) - TestLoad Name Previously Defined (\""{name}\"")" |
|  | | *A [Test Load] section with name is already defined* |
| **B2213** | TESTLOAD\_ERR\_13 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2214** | TESTLOAD\_ERR\_14 | ( line {lineNum} ) - Unknown Line Among Test Load |
|  | | *A line was found in the [Test Load] section wich was not a valid line* |
| **B2215** | TESTLOAD\_ERR\_15 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **E2216** | TESTLOAD\_ERR\_16 | ( line {lineNum} ) - {Test\_load\_type} Already Defined For Test Load '{testloadName}' |
|  | | *The Test\_load\_type is already defined for [Test Load]* |
| **E2217** | TESTLOAD\_ERR\_17 | ( line {lineNum} ) - '{Test\_load\_type}' Subparameter Missing Setting |
|  | | *"The value for the ""Test\_load\_type"" subparam is missing"* |
| **E2218** | TESTLOAD\_ERR\_18 | ( line {lineNum} ) - Invalid {Test\_load\_type} Line |
|  | | *"There is a syntax error on the ""Test\_load\_type"" data line"* |
| **E2219** | TESTLOAD\_ERR\_19 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2220** | TESTLOAD\_ERR\_20 | "( line {lineNum} ) - Invalid {subparam/keyword} (\""{badValue}\"") (try \""{optionslist}\"")" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E2221** | TESTLOAD\_ERR\_21 | "( line {lineNum} ) - Invalid {Test\_load\_type} (\""{badValue}\"")" |
|  | | *The Test\_load\_type has an illeagal value* |
| **E2222** | TESTLOAD\_ERR\_22 | ( line {lineNum} ) - {name} Name Over {maxLength} Characters Long |
|  | | *[UNUSED}* |
| **E2223** | TESTLOAD\_ERR\_23 | "( line {lineNum} ) - Invalid {name} (\""{badValue}\""), Reserved Word." |
|  | | *The Test Load subparam has an illegal value* |
| **E2224** | TESTLOAD\_ERR\_24 | Test Load '{testloadName}': {Test\_load\_type} Not Defined |
|  | | *In the [Test Load[ ; the Test\_load\_type is not defined* |
| **E2225** | TESTLOAD\_ERR\_25 | Test Load '{testloadName}': If Td is specified then Zo must be specified also |
|  | | *In the [Test Load} since Td is specified; then Zo must also be specified* |
| **E2226** | TESTLOAD\_ERR\_26 | Test Load '{testloadName}': V\_term1 must be specified when Rp1\_near or Rp1\_far is specified |
|  | | *In the [Test Load] since Rp1\_near or Rp1\_far are specified; V\_term1 should be specified also* |
| **E2227** | TESTLOAD\_ERR\_27 | Test Load '{testloadName}': V\_term2 must be specified when Rp2\_near or Rp2\_far is specified |
|  | | *In the [Test Load] since Rp2\_near or Rp2\_far are specified; V\_term2 should be specified also* |
| **W2228** | TESTLOAD\_ERR\_28 | Test Load '{testloadName}' : R\_diff\_near specified for Test\_load\_type which is not Differential |
|  | | *In the [Test Load] which is not of type Differential; R\_diff\_near should not be specified* |
| **W2229** | TESTLOAD\_ERR\_29 | Test Load '{testloadName}' : R\_diff\_far specified for Test\_load\_type which is not Differential |
|  | | *In the [Test Load] which is not of type Differential; R\_diff\_far should not be specified* |
| **W2230** | TESTLOAD\_ERR\_30 | Test Load '{testloadName}' : Receiver\_model\_inv specified for Test\_load\_type which is not Differential |
|  | | *In the [Test Load] which is not of type Differential; Receiver\_model\_inv should not be specified* |
| **B2231** | TESTLOAD\_ERR\_31 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E2232** | TESTLOAD\_ERR\_32 | Test Load '{name}' references undefined models |
|  | | *The Test Load references undefined models* |
| **E2233** | TESTLOAD\_ERR\_33 | Receiver\_model '{rcvrModel}' in Test Load '{testloadName}' is not defined in the file |
|  | |  |
| **W2234** | TESTLOAD\_ERR\_34 | Driver\_model '{rcvrModel}' in Test Load '{testloadName}' is not an input type. |
|  | | *NOTE: Driver\_model actually needs to be a Receiver\_model* |
| **E2235** | TESTLOAD\_ERR\_35 | Receiver\_model\_inv '{rcvrModel}' in Test Load '{testloadName}' is not defined in the file |
|  | |  |
| **W2236** | TESTLOAD\_ERR\_36 | Receiver\_model\_inv '{rcvrModel}' in Test Load '{testloadName}' is not associated with a Differential Pin. |
|  | |  |
| **E2237** | TESTLOAD\_ERR\_37 | ( line {lineNum} ) - {subparam} Already Defined For Test Load |
|  | |  |
| **E2238** | TESTLOAD\_ERR\_38 | "( line {lineNum} ) - Invalid {subparam} Value (\""{value}\"")" |
|  | |  |
| **E2239** | TESTLOAD\_ERR\_39 | ( line {lineNum} ) - 'NA' Not Allowed For Typical Value |
|  | | *The typical value in a Range cannot be NA* |
| **B2300** | TESTDATA\_ERR\_0 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B2301** | TESTDATA\_ERR\_1 | Unable to get IBIS structure |
|  | | *Program data structures are corrupt* |
| **E2302** | TESTDATA\_ERR\_2 | ( line {lineNum} ) - Orphan Test Data keyword. |
|  | |  |
| **E2303** | TESTDATA\_ERR\_3 | ( line {lineNum} ) - Orphan data line keyword. |
|  | |  |
| **E2304** | TESTDATA\_ERR\_4 | ( line {lineNum} ) - [Rising Waveform Near] Already Defined |
|  | |  |
| **E2305** | TESTDATA\_ERR\_5 | ( line {lineNum} ) - [Falling Waveform Near] Already Defined |
|  | |  |
| **E2306** | TESTDATA\_ERR\_6 | ( line {lineNum} ) - [Rising Waveform Far] Already Defined |
|  | |  |
| **E2307** | TESTDATA\_ERR\_7 | ( line {lineNum} ) - [Falling Waveform Far] Already Defined |
|  | |  |
| **E2308** | TESTDATA\_ERR\_8 | ( line {lineNum} ) - [Diff Rising Waveform Near] Already Defined |
|  | |  |
| **E2309** | TESTDATA\_ERR\_9 | ( line {lineNum} ) - [Diff Falling Waveform Near] Already Defined |
|  | |  |
| **E2310** | TESTDATA\_ERR\_10 | ( line {lineNum} ) - [Diff Rising Waveform Far] Already Defined |
|  | |  |
| **E2311** | TESTDATA\_ERR\_11 | ( line {lineNum} ) - [Diff Falling Waveform Far] Already Defined |
|  | |  |
| **B2312** | TESTDATA\_ERR\_12 | {sourceFile}:{sourceLinenum}:Illegal keyword. |
|  | | *Program data structures are corrupt in program file* |
| **E2313** | TESTDATA\_ERR\_13 | ( line {lineNum} ) - Orphan Data line. |
|  | |  |
| **B2314** | TESTDATA\_ERR\_14 | Unable to eat keyword : {sourceFile} {sourceLinenum} |
|  | |  |
| **E2315** | TESTDATA\_ERR\_15 | Unable to Save Test Data Name |
|  | |  |
| **E2316** | TESTDATA\_ERR\_16 | ( line {lineNum} ) - 'Test Data' Keyword Missing name |
|  | |  |
| **E2317** | TESTDATA\_ERR\_17 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For Keyword {keyword}: Expecting {numberOfItemsExpected} |
|  | | *The keyword should have had items on the keyword line but only number of data items were found* |
| **E2318** | TESTDATA\_ERR\_18 | ( line {lineNum} ) - Test Data Name Over {maxChars} Characters Long |
|  | |  |
| **E2319** | TESTDATA\_ERR\_19 | "( line {lineNum} ) - Invalid Test Data Name (\""{name}\""), Reserved Word." |
|  | |  |
| **E2320** | TESTDATA\_ERR\_20 | "( line {lineNum} ) - TestData Name Previously Defined (\""{name}\"")" |
|  | |  |
| **B2321** | TESTDATA\_ERR\_21 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2322** | TESTDATA\_ERR\_22 | ( line {lineNum} ) - Unknown Line Among Test Data |
|  | | *A line was found in the [Test Data] section wich was not a valid line* |
| **B2323** | TESTDATA\_ERR\_23 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **E2324** | TESTDATA\_ERR\_24 | {lineNum} Already Defined For Test Data '{keyword}' |
|  | |  |
| **E2325** | TESTDATA\_ERR\_25 | ( line {lineNum} ) - '{subparam}' Subparameter Missing Setting |
|  | |  |
| **E2326** | TESTDATA\_ERR\_26 | ( line {lineNum} ) - Invalid {subparam} Line |
|  | |  |
| **E2327** | TESTDATA\_ERR\_27 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2328** | TESTDATA\_ERR\_28 | "( line {lineNum} ) - Invalid {subparam/keyword} (\""{badValue}\"") (try \""{optionList}\"")" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E2329** | TESTDATA\_ERR\_29 | "( line {lineNum} ) - Invalid {subparam} (\""{value}\"")" |
|  | |  |
| **E2330** | TESTDATA\_ERR\_30 | ( line {lineNum} ) - {subparam} Name Over {maxChars} Characters Long |
|  | |  |
| **B2331** | TESTDATA\_ERR\_31 | "Invalid {sourceFile} (\""{sourceLinenum}\""), Reserved Word." |
|  | |  |
| **E2332** | TESTDATA\_ERR\_32 | Test Data '{testdataName}': {testdataType} Not Defined |
|  | |  |
| **E2333** | TESTDATA\_ERR\_33 | Test Data '{testdataName}': Driver\_model\_inv can only be specified with Differential Test\_data\_type |
|  | |  |
| **E2334** | TESTDATA\_ERR\_34 | Test Data '{testdataName}': At least one Rising/Falling Waveform must be specified |
|  | |  |
| **E2335** | TESTDATA\_ERR\_35 | Test Data '{testdataName}': Differential Rising/Falling Waveform can be specified only with Differential Test\_data\_type |
|  | |  |
| **B2336** | TESTDATA\_ERR\_36 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E2337** | TESTDATA\_ERR\_37 | Test Data '{testdataName}' references undefined models |
|  | |  |
| **E2338** | TESTDATA\_ERR\_38 | Driver\_model '{modelName}' in Test Data '{testdataName}' is not defined in the file |
|  | |  |
| **W2339** | TESTDATA\_ERR\_39 | Driver\_model '{modelName}' in Test Data '{testdataName}' is not an output type. |
|  | |  |
| **E2340** | TESTDATA\_ERR\_40 | Driver\_model\_inv '{modelName}' in Test Data '{testdataName}' is not defined in the file |
|  | |  |
| **W2341** | TESTDATA\_ERR\_41 | Driver\_model\_inv '{modelName}' in Test Data '{testdataName}' is not associated with a Differential Pin. |
|  | |  |
| **E2342** | TESTDATA\_ERR\_42 | Test Data '{testdataName}' references undefined Test Loads |
|  | |  |
| **E2343** | TESTDATA\_ERR\_43 | Test Load '{testloadName}' referenced in Test Data '{testdataName}' is not defined in the file |
|  | |  |
| **E2344** | TESTDATA\_ERR\_44 | Test\_data\_type in Test Data '{testdataName}' is not the same as Test\_load\_type in referenced Test Load '{testloadName}' |
|  | |  |
| **B2400** | SUBMDL\_ERR\_0 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B2401** | SUBMDL\_ERR\_1 | Unable to get IBIS structure {sourceFile} {sourceLinenum} |
|  | | *Program data structures are corrupt* |
| **E2402** | SUBMDL\_ERR\_2 | ( line {lineNum} ) - Orphan Sub Model keyword. |
|  | |  |
| **E2403** | SUBMDL\_ERR\_3 | ( line {lineNum} ) - Orphan data line keyword. |
|  | |  |
| **E2404** | SUBMDL\_ERR\_4 | ( line {lineNum} ) - [GND Pulse Table] Already Defined |
|  | |  |
| **E2405** | SUBMDL\_ERR\_5 | ( line {lineNum} ) - [POWER Pulse Table] Already Defined |
|  | |  |
| **E2406** | SUBMDL\_ERR\_6 | ( line {lineNum} ) - [Submodel Spec] should be specified before other keywords for a model |
|  | |  |
| **B2407** | SUBMDL\_ERR\_7 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B2408** | SUBMDL\_ERR\_8 | Unable to eat keyword : {sourceFile} {sourceLinenum} |
|  | |  |
| **E2409** | SUBMDL\_ERR\_9 | Unable to Save Sub Model Name |
|  | |  |
| **E2410** | SUBMDL\_ERR\_10 | ( line {lineNum} ) - 'Sub Model' Keyword Missing name |
|  | |  |
| **E2411** | SUBMDL\_ERR\_11 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For Keyword {keyword}: Expecting {numberOfItemsExpected} |
|  | | *The keyword should have had items on the keyword line but only number of data items were found* |
| **E2412** | SUBMDL\_ERR\_12 | ( line {lineNum} ) - Sub Model Name Over {maxChars} Characters Long |
|  | |  |
| **E2413** | SUBMDL\_ERR\_13 | "( line {lineNum} ) - Invalid Sub Model Name (\""{submodelName}\""), Reserved Word." |
|  | |  |
| **E2414** | SUBMDL\_ERR\_14 | "( line {lineNum} ) - SubModel Name Previously Defined (\""{submodelName}\"")" |
|  | |  |
| **B2415** | SUBMDL\_ERR\_15 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2416** | SUBMDL\_ERR\_16 | ( line {lineNum} ) - Unknown Line Among Sub Model Data |
|  | | *A line was found in the [Sub Model] section wich was not a valid line* |
| **E2417** | SUBMDL\_ERR\_17 | {lineNum} Already Defined For Submodel '{submodelName}' |
|  | |  |
| **E2418** | SUBMDL\_ERR\_18 | '{lineNum}' Subparameter Missing Setting |
|  | |  |
| **E2419** | SUBMDL\_ERR\_19 | Invalid {lineNum} Line |
|  | |  |
| **E2420** | SUBMDL\_ERR\_20 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2421** | SUBMDL\_ERR\_21 | "Invalid {lineNum} (\""{type}\"") (try \""{optionList}\"")" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E2422** | SUBMDL\_ERR\_22 | "Invalid {lineNum} (\""{type}\"")" |
|  | |  |
| **E2423** | SUBMDL\_ERR\_23 | Submodel '{"submodelName}': {""Submodel\_type"""} Not Defined |
|  | |  |
| **E2424** | SUBMDL\_ERR\_24 | Submodel {submodelName}: [Submodel Spec] is required when Submodel\_type is Bus\_hold |
|  | |  |
| **E2425** | SUBMDL\_ERR\_25 | Submodel {submodelName}: [Submodel Spec] V\_trigger\_r is required when Submodel\_type is Bus\_hold |
|  | |  |
| **E2426** | SUBMDL\_ERR\_26 | Submodel {submodelName}: [Submodel Spec] V\_trigger\_f is required when Submodel\_type is Bus\_hold |
|  | |  |
| **E2427** | SUBMDL\_ERR\_27 | SubModel {submodelName}: Both Pullup and Pulldown cannot be specified when Off\_delay is specified. |
|  | |  |
| **E2428** | SUBMDL\_ERR\_28 | Submodel {submodelName}: [Ramp] is required when Submodel\_type is Bus\_hold |
|  | |  |
| **E2429** | SUBMDL\_ERR\_29 | Submodel {submodelName}: Either [Pullup] or [Pulldown] is required when Submodel\_type is Bus\_hold |
|  | |  |
| **E2430** | SUBMDL\_ERR\_30 | Submodel {submodelName}: [Submodel Spec] V\_trigger\_f is required when GND\_Pulse is specified |
|  | |  |
| **E2431** | SUBMDL\_ERR\_31 | Submodel {submodelName}: [Submodel Spec] V\_trigger\_r is required when POWER\_Pulse is specified |
|  | |  |
| **E2432** | SUBMDL\_ERR\_32 | Submodel {submodelName}: GND Pulse Table or POWER Pulse Table or GND Clamp or POWER Clamp is required when Submodel\_type is Dynamic\_clamp |
|  | |  |
| **E2433** | SUBMDL\_ERR\_33 | Submodel {submodelName}: [Submodel Spec] Off\_delay cannot be specified with Dynamic\_clamp submodels |
|  | |  |
| **E2434** | SUBMDL\_ERR\_34 | Submodel {submodelName}: [Submodel Spec] is required when Submodel\_type is Fall\_back |
|  | |  |
| **E2435** | SUBMDL\_ERR\_35 | Submodel {submodelName}: [Submodel Spec] V\_trigger\_r is required when Submodel\_type is Fall\_back |
|  | |  |
| **E2436** | SUBMDL\_ERR\_36 | Submodel {submodelName}: [Submodel Spec] V\_trigger\_f is required when Submodel\_type is Fall\_back |
|  | |  |
| **E2437** | SUBMDL\_ERR\_37 | Submodel {submodelName}: Either [Pullup] or [Pulldown] is required when Submodel\_type is Fall\_back |
|  | |  |
| **E2438** | SUBMDL\_ERR\_38 | Submodel {submodelName}: Pullup and Pulldown cannot both be specified with Fall\_back submodels |
|  | |  |
| **E2439** | SUBMDL\_ERR\_39 | Submodel {submodelName}: [Ramp] is required when Submodel\_type is Fall\_back |
|  | |  |
| **E2440** | SUBMDL\_ERR\_40 | Submodel {submodelName}: [Submodel Spec] Off\_delay cannot be specified with Fall\_back submodels |
|  | |  |
| **W2441** | SUBMDL\_ERR\_41 | Submodel {submodelName}: V\_trigger\_r ({Typ|Min|Max}) is less than the start of Rising Waveform |
|  | |  |
| **W2442** | SUBMDL\_ERR\_42 | Submodel {submodelName}: V\_trigger\_r ({Typ|Min|Max}) is greater than the end of Rising Waveform |
|  | |  |
| **W2443** | SUBMDL\_ERR\_43 | Submodel {submodelName}: V\_trigger\_f ({Typ|Min|Max}) is greater than the start of Falling Waveform |
|  | |  |
| **W2444** | SUBMDL\_ERR\_44 | Submodel {submodelName}: V\_trigger\_f ({Typ|Min|Max}) is less than the end of Falling Waveform |
|  | |  |
| **E2445** | SUBMDL\_ERR\_45 | SubModel {subModelName} has [Initial Delay] sub parameter {subparam} specified but it has no {section} |
|  | | *SubModel has [Initial Delay] sub-parametr (V-T; I-T) specified but the corressponding [Rising/Falling Waveform] or [Composite Current] is missing* |

## Message Codes 2500 to 2999

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **E2500** | SSWCH\_ERR\_0 | ( line {lineNum} ) - Unknown sub parameter '{subparam}' |
|  | |  |
| **E2501** | SSWCH\_ERR\_1 | ( line {lineNum} ) - Unable to add Series\_Switch\_Groups. |
|  | | *Internal memory allocation error* |
| **E2502** | SSWCH\_ERR\_2 | ( line {lineNum} ) - No Group names specified on this line |
|  | |  |
| **E2503** | SSWCH\_ERR\_3 | ( line {lineNum} ) - Unable to allocate new Series Switch Group name. |
|  | | *Memory allocation for a Series Switch Group name failed while trying to parse a [Series Switch] section* |
| **E2504** | SSWCH\_ERR\_4 | ( line {lineNum} ) - Series switch Group name '{groupName}' over {maxChars} characters long |
|  | |  |
| **E2505** | SSWCH\_ERR\_5 | ( line {lineNum} ) - Series switch Group name cannot be 'On' or 'Off' |
|  | |  |
| **E2506** | SSWCH\_ERR\_6 | ( line {lineNum} ) - Duplicate Series switch Group name '{groupName}' |
|  | |  |
| **W2507** | SSWCH\_ERR\_7 | Component: {compName} Series Switch Function '{function}' is used but not defined |
|  | |  |
| **E2600** | SSWCH\_ERR\_8 | ( line {lineNum} ) - Unable to allocate new SSWCH. |
|  | | *Memory allocation for a Series Switch failed while trying to parse a [Series Switch] section* |
| **E2601** | SPINMPG\_ERR\_0 | ( line {lineNum} ) - Extra data columns on this line. |
|  | |  |
| **E2602** | SPINMPG\_ERR\_1 | ( line {lineNum} ) - No Pin1 specified. |
|  | | *The data line in a [Series Pin Mapping] section has no Pin1 specified* |
| **E2603** | SPINMPG\_ERR\_2 | ( line {lineNum} ) - No Pin2 specified. |
|  | | *The data line in a [Series Pin Mapping] section has no Pin2 specified* |
| **E2604** | SPINMPG\_ERR\_3 | ( line {lineNum} ) - No Model specified. |
|  | | *The data line in a [Series Pin Mapping] section has no Model specified* |
| **E2605** | SPINMPG\_ERR\_4 | ( line {lineNum} ) - [Series Pin Mapping] Data lines must contain either 3 or 4 columns. |
|  | | *The data line in a [Series Pin Mapping] section should have 3 values ( if no function group is specified ) or 4 values (if a function group is specified)* |
| **E2606** | SPINMPG\_ERR\_5 | ( line {lineNum} ) - [Series Pin Mapping] When 4 columns are specified, the heading 'function\_table\_group' must be used. |
|  | | *If a data line in a [Series Pin Mapping] section has 4 values then the keyword line should also have the heading function\_table\_group defined* |
| **B2607** | SPINMPG\_ERR\_6 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E2608** | SPINMPG\_ERR\_7 | Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' not previously declared in Pin section. |
|  | | *The Pin1 referred to in the [Series Pin Mapping] section of Component was not defiend in the [Pin] section of the component* |
| **E2609** | SPINMPG\_ERR\_8 | Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' has an unknown model. |
|  | | *[UNUSED}* |
| **E2610** | SPINMPG\_ERR\_9 | Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' has model '{model}' which neither TERMINATOR nor NC. |
|  | | *[UNUSED}* |
| **E2611** | SPINMPG\_ERR\_10 | Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' has Model '{model}' with unknown type. |
|  | | *[UNUSED}* |
| **E2612** | SPINMPG\_ERR\_11 | Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' not previously declared in Pin section. |
|  | | *The Pin2 referred to in the [Series Pin Mapping] section of Component was not defiend in the [Pin] section of the component* |
| **E2613** | SPINMPG\_ERR\_12 | Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' has an unknown model. |
|  | | *[UNUSED}* |
| **E2614** | SPINMPG\_ERR\_13 | Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' has model '{model}' which neither TERMINATOR nor NC. |
|  | | *[UNUSED}* |
| **E2615** | SPINMPG\_ERR\_14 | Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' has Model '{modelName}' with unknown type. |
|  | | *[UNUSED}* |
| **E2616** | SPINMPG\_ERR\_15 | Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}': model type cannot be Series or Series\_switch. |
|  | | *[UNUSED}* |
| **E2617** | SPINMPG\_ERR\_16 | Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}': model type cannot be Series or Series\_switch. |
|  | | *[UNUSED}* |
| **E2618** | SPINMPG\_ERR\_17 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' is not defined. |
|  | | *The model referenced in the [Series Pin Mapping] of component is not defined* |
| **E2619** | SPINMPG\_ERR\_18 | Component '{compName}': [Series Pin Mapping] defined but [Pins] not defined. |
|  | | *The component has a [Series Pin Mapping] section but no associated [Pin] section* |
| **E2620** | SPINMPG\_ERR\_19 | ( line {lineNum} ) - Unable to alloc new Series\_Pin\_Mapping. |
|  | | *Internal memory allocation error* |
| **E2621** | SPINMPG\_ERR\_20 | Component '{compName}': [Series Pin Mapping] Model Selector '{modelSelectorName}' Model '{modelName}' is not of type Series\_Switch. |
|  | | *The model selector name referenced in the [Series Pin Mapping] section of component refers to a model which is not of type Series\_switch* |
| **E2622** | SPINMPG\_ERR\_21 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' is not of type Series\_Switch. |
|  | | *The model referenced in the [Series Pin Mapping] section of component is not of type Series\_switch* |
| **E2623** | SPINMPG\_ERR\_22 | Component '{compName}': [Series Pin Mapping] Model Selector '{modelSelectorName}' Model '{modelName}' is not of type Series. |
|  | | *The model selector name referenced in the [Series Pin Mapping] section of component refers to a model which is not of type Series\_switch* |
| **E2624** | SPINMPG\_ERR\_23 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' is not of type Series. |
|  | | *The model referenced in the [Series Pin Mapping] section of component is not of type Series* |
| **W2625** | SPINMPG\_ERR\_24 | Component '{compName}': [Series Pin Mapping] Model Selector '{modelSelectorName}' Model '{modelName}' is of type Series so function\_table\_group '{groupName}' is ignored. |
|  | |  |
| **W2626** | SPINMPG\_ERR\_25 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' is of type Series so function\_table\_group '{groupName}' is ignored. |
|  | |  |
| **E2627** | SPINMPG\_ERR\_26 | Component '{compName}': [Series Pin Mapping] Model Selector '{modelSelectorName}' Model '{modelName}' is of type Series\_Switch so function\_table\_group is required. |
|  | |  |
| **E2628** | SPINMPG\_ERR\_27 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' is of type Series\_Switch so function\_table\_group is required. |
|  | |  |
| **E2629** | SPINMPG\_ERR\_28 | Component '{compName}': [Series Pin Mapping] Model Selector '{modelSelectorName}' Model '{modelName}' uses function {function} which is not defined. |
|  | |  |
| **E2630** | SPINMPG\_ERR\_29 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' uses function {function} which is not defined. |
|  | |  |
| **E2631** | SPINMPG\_ERR\_30 | Component '{compName}': [Series Pin Mapping] Model Selector '{modelSelectorName}' Model '{modelName}' is of unknown type. |
|  | | *The model selector name referenced in the [Series Pin Mapping] section of component refers to a model whose model type is not known* |
| **E2632** | SPINMPG\_ERR\_31 | Component '{compName}': [Series Pin Mapping] Model '{modelName}' is of unknown type. |
|  | | *The model referenced in the [Series Pin Mapping] section of component is of unknown model type* |
| **E2700** | SMSPEC\_ERR\_0 | ( line {lineNum} ) - Sub Model Specification: Already Defined for this sub model |
|  | |  |
| **B2701** | SMSPEC\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B2702** | SMSPEC\_ERR\_2 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B2703** | SMSPEC\_ERR\_3 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2704** | SMSPEC\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2705** | SMSPEC\_ERR\_5 | Submodel {submodelName}: Empty Submodel Spec |
|  | | *The [Submodel Spec] of submodel has no data defined* |
| **E2706** | SMSPEC\_ERR\_6 | ( line {lineNum} ) - Unknown Line Among Sub Model Spec Data |
|  | | *A line was found in the [Sub Model Spec] section wich was not a valid line* |
| **E2707** | SMSPEC\_ERR\_7 | ( line {lineNum} ) - {range} Already Defined For Submodel '{submodelName}' |
|  | | *The range (V\_trigger\_r; V\_trigger\_f or Off\_delay) was multiply defined for submodel* |
| **E2708** | SMSPEC\_ERR\_8 | ( line {lineNum} ) - 'NA' not allowed for Typical value |
|  | | *The typical value in a Range cannot be NA* |
| **W2709** | SMSPEC\_ERR\_9 | {value1}({corner1}) is not less than {value2}({corner2}) for Model Spec defined on line {lineNum} |
|  | | *[UNUSED}* |
| **E2800** | SMOS\_ERR\_0 | ( line {lineNum} ) - More than 100 [Series\_MOSFET]s are defined |
|  | |  |
| **B2801** | SMOS\_ERR\_1 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B2802** | SMOS\_ERR\_2 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2803** | SMOS\_ERR\_3 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2804** | SMOS\_ERR\_4 | Model {modelName}: Vds not specified for [Series MOSFET] defined on line {lineNum} |
|  | | *Vds was not specified in the [Series MOSFET] section defined on line for model* |
| **E2805** | SMOS\_ERR\_5 | Model {modelName}: Vds should be >= 0 for [Series MOSFET] defined on line {lineNum} |
|  | | *The Vds specified in the [Series MOSFET] section defined on line for model has a value which is less than 0* |
| **E2806** | SMOS\_ERR\_6 | Model {modelName} {keyword}: Found two Series\_MOSFETs with identical Vds value {Vds} |
|  | |  |
| **E2807** | SMOS\_ERR\_7 | ( line {lineNum} ) - Unknown data line in Series\_MOSFET |
|  | |  |
| **E2808** | SMOS\_ERR\_8 | ( line {lineNum} ) - Vds is already defined |
|  | | *Vds was specified more than once in a [Series MOSFET] section* |
| **B2809** | SMOS\_ERR\_9 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E2810** | SMOS\_ERR\_10 | ( line {lineNum} ) - Invalid {Vds} Line |
|  | |  |
| **E2811** | SMOS\_ERR\_11 | "Invalid {lineNum} Value (\""{value}\"")" |
|  | |  |
| **E2900** | SINFO\_ERR\_0 | ( line {lineNum} ) - {On|Off} Series Info: Already Defined for this model |
|  | |  |
| **B2901** | SINFO\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B2902** | SINFO\_ERR\_2 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B2903** | SINFO\_ERR\_3 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E2904** | SINFO\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E2905** | SINFO\_ERR\_5 | Model {modelName} {On|Off}: No series data found |
|  | |  |
| **E2906** | SINFO\_ERR\_6 | Model {modelName}: [Series\_MOSFET] is not allowed in conjunction with the [Off] keyword |
|  | |  |
| **E2907** | SINFO\_ERR\_7 | Model {modelName} {On|Off}: Rl\_series cannot be specified if L\_series is not specified |
|  | |  |
| **E2908** | SINFO\_ERR\_8 | Model {modelName} {On|Off}: Rc\_series cannot be specified if C\_series is not specified |
|  | |  |
| **E2909** | SINFO\_ERR\_9 | Model {modelName} {On|Off}: Lc\_series cannot be specified if C\_series is not specified |
|  | |  |

## Message Codes 3000 to 3499

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **E3000** | SECT\_ERR\_0 | ( line {lineNum} ) - Duplicate Len sub param in R/L/C section |
|  | | *There should be a single Len sub param in R/L/C section* |
| **E3001** | SECT\_ERR\_1 | ( line {lineNum} ) - Len should not be less than zero |
|  | | *The value of the Len subparam cannot be less than 0* |
| **E3002** | SECT\_ERR\_2 | ( line {lineNum} ) - Len should be specified before R |
|  | | *The Len subaparam should be defined before the R subparam* |
| **E3003** | SECT\_ERR\_3 | ( line {lineNum} ) - Duplicate R sub param in R/L/C section |
|  | | *There should be a single R subparam in an R/L/C section* |
| **E3004** | SECT\_ERR\_4 | ( line {lineNum} ) - R should not be less than zero |
|  | | *The value of the R subparam cannot be less than 0* |
| **E3005** | SECT\_ERR\_5 | ( line {lineNum} ) - Len should be specified before L |
|  | | *The Len subaparam should be defined before the L subparam* |
| **E3006** | SECT\_ERR\_6 | ( line {lineNum} ) - Duplicate L sub param in R/L/C section |
|  | | *There should be a single L subparam in an R/L/C section* |
| **E3007** | SECT\_ERR\_7 | ( line {lineNum} ) - L should not be less than zero |
|  | | *The value of the L subparam cannot be less than 0* |
| **E3008** | SECT\_ERR\_8 | ( line {lineNum} ) - Len should be specified before C |
|  | | *The Len subaparam should be defined before the C subparam* |
| **E3009** | SECT\_ERR\_9 | ( line {lineNum} ) - Duplicate C sub param in R/L/C section |
|  | | *There should be a single C subparam in an R/L/C section* |
| **E3010** | SECT\_ERR\_10 | ( line {lineNum} ) - C should not be less than zero |
|  | | *The value of the C subparam cannot be less than 0* |
| **E3011** | SECT\_ERR\_11 | ( line {lineNum} ) - Empty R/L/C section found |
|  | |  |
| **E3012** | SECT\_ERR\_12 | ( line {lineNum} ) - L and C must be specified when Len != 0 |
|  | | *The L and C subparam are mandatory if the value of the Len subparam is non zero* |
| **E3013** | SECT\_ERR\_13 | ( line {lineNum} ) - Premature end of R/L/C section. Trailing '/' missing |
|  | | *An R/L?C section should be terminated with a trailing '/'* |
| **B3014** | SECT\_ERR\_14 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E3100** | ROW\_ERR\_0 | ( line {lineNum} ) - Unable to find Pin in Package Model Pin\_Number list. |
|  | |  |
| **E3101** | ROW\_ERR\_1 | ( line {lineNum} ) - Repeated ROW . |
|  | |  |
| **E3102** | ROW\_ERR\_2 | ( line {lineNum} ) - Expected Pin at matrix row index {row},found at matrix row index {row}. |
|  | |  |
| **E3103** | ROW\_ERR\_3 | ( line {lineNum} ) - Unable to convert row data. |
|  | |  |
| **W3104** | ROW\_ERR\_4 | ( line {lineNum} ) - Suspicious row data. |
|  | |  |
| **E3105** | ROW\_ERR\_5 | ( line {lineNum} ) - More row data than allowed for this row. |
|  | |  |
| **E3106** | ROW\_ERR\_6 | ( line {lineNum} ) - Unable to add row data. |
|  | | *The code failed to allocate the required memory* |
| **E3107** | ROW\_ERR\_7 | ( line {lineNum} ) - Only {maxCols} columns of data allowed for this Row . |
|  | |  |
| **B3108** | ROW\_ERR\_8 | {sourceFile}:{sourceLinenum}:(uiNewColCount <= pLastRow->uiColumnCount |
|  | |  |
| **B3109** | ROW\_ERR\_9 | {sourceFile}:{sourceLinenum}:pRow->uiColumnCount > uiNewColumnCount |
|  | |  |
| **E3110** | ROW\_ERR\_10 | ( line {lineNum} ) - No Column Index. |
|  | |  |
| **E3111** | ROW\_ERR\_11 | ( line {lineNum} ) - This Row Column Index defines an entry in the lower matrix triangle. |
|  | |  |
| **B3112** | ROW\_ERR\_12 | {sourceFile}:{sourceLinenum}:(uiColIndex > pLastRow->uiColumnCount) |
|  | |  |
| **E3113** | ROW\_ERR\_13 | ( line {lineNum} ) - Duplicate Row column index {columnIndex}. |
|  | |  |
| **E3114** | ROW\_ERR\_14 | ( line {lineNum} ) - No row data. |
|  | |  |
| **E3115** | ROW\_ERR\_15 | ( line {lineNum} ) - Excessive data ,only Index and Value should be specified for a Sparse\_matrix. |
|  | |  |
| **E3116** | ROW\_ERR\_16 | Expected {lineNum} columns of Row data for [Row] {declaredColumns} in Matrix ending previous to this line,found {row} column{actualColumns}. |
|  | |  |
| **E3117** | ROW\_ERR\_17 | ( line {lineNum} ) - Expected at least one column of Row data for [Row] {pinName} in Matrix ending previous to this line. |
|  | |  |
| **E3118** | ROW\_ERR\_18 | ( line {lineNum} ) - [Row] {pinName} must contain a self-coupled index and entry. |
|  | |  |
| **E3119** | ROW\_ERR\_19 | ( line {lineNum} ) - Unable to add new matrix row. |
|  | |  |
| **E3120** | ROW\_ERR\_20 | ( line {lineNum} ) - Unknown PIN NUMBER. |
|  | |  |
| **E3121** | ROW\_ERR\_21 | ( line {lineNum} ) - PIN NUMBER string too long. |
|  | |  |
| **E3122** | ROW\_ERR\_22 | ( line {lineNum} ) - Unable to add new matrix row,expected column count = 0. |
|  | |  |
| **E3123** | ROW\_ERR\_23 | ( line {lineNum} ) - Unable to create pin entry array. |
|  | |  |
| **E3200** | RCVTH\_ERR\_0 | ( line {lineNum} ) - Receiver Threshold: Already Defined for this model |
|  | | *There should be at most one [Receiver Thresholds] section in a model* |
| **B3201** | RCVTH\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B3202** | RCVTH\_ERR\_2 | Should Not Be Here: {sourceFile}, {sourceLinenum} |
|  | | *The code has a bug* |
| **B3203** | RCVTH\_ERR\_3 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E3204** | RCVTH\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E3205** | RCVTH\_ERR\_5 | Model {modelName} Receiver Thresholds: Reference Supply must be specified when Threshold Sensitivity is specified |
|  | | *The Reference\_supply parameter is mandatory when the Threshold\_sensitivity parameter is specified in the [Receiver Thresholds] section but it is not so for Model* |
| **W3206** | RCVTH\_ERR\_6 | Model {modelName} Receiver Thresholds: Vcross\_low must be specified for differential receivers (Pin {pinName}) |
|  | | *The [Receiver Thresholds] section for Model does not have Vcross\_low specified which is required for Pin which is a differential pin and associated with this model* |
| **W3207** | RCVTH\_ERR\_7 | Model {modelName} Receiver Thresholds: Vcross\_high must be specified for differential receivers (Pin {pinName}) |
|  | | *The [Receiver Thresholds] section for Model does not have Vcross\_high specified which is required for Pin which is a differential pin and associated with this model* |
| **W3208** | RCVTH\_ERR\_8 | Model {modelName} Receiver Thresholds: Vdiff\_ac must be specified for differential receivers (Pin {pinName}) |
|  | | *The [Receiver Thresholds] section for Model does not have Vdiff\_ac specified which is required for Pin which is a differential pin and associated with this model* |
| **W3209** | RCVTH\_ERR\_9 | Model {modelName} Receiver Thresholds: Vdiff\_dc must be specified for differential receivers (Pin {pinName}) |
|  | | *The [Receiver Thresholds] section for Model does not have Vdiff\_dc specified which is required for Pin which is a differential pin and associated with this model* |
| **W3210** | RCVTH\_ERR\_10 | Model {modelName} Receiver Thresholds: Tdiffslew\_ac must be specified for differential receivers (Pin {pinName}) |
|  | | *The [Receiver Thresholds] section for Model does not have Tdiffslew\_ac specified which is required for Pin which is a differential pin and associated with this model* |
| **W3211** | RCVTH\_ERR\_11 | Model {modelName} Receiver Thresholds: Vth must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3212** | RCVTH\_ERR\_12 | Model {modelName} Receiver Thresholds: Vth\_min must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3213** | RCVTH\_ERR\_13 | Model {modelName} Receiver Thresholds: Vth\_max must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3214** | RCVTH\_ERR\_14 | Model {modelName} Receiver Thresholds: Vinh\_ac must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3215** | RCVTH\_ERR\_15 | Model {modelName} Receiver Thresholds: Vinl\_ac must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3216** | RCVTH\_ERR\_16 | Model {modelName} Receiver Thresholds: Vinh\_dc must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3217** | RCVTH\_ERR\_17 | Model {modelName} Receiver Thresholds: Vinl\_dc must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3218** | RCVTH\_ERR\_18 | Model {modelName} Receiver Thresholds: Tslew\_ac must not be specified for differential receivers |
|  | | *[UNUSED}* |
| **W3219** | RCVTH\_ERR\_19 | Model {modelName} Receiver Thresholds: Vth must be specified for single ended receivers |
|  | | *Model is associated with single ended pins and hence Vth is mandatory* |
| **W3220** | RCVTH\_ERR\_20 | Model {modelName} Receiver Thresholds: Vinh\_ac must be specified for single ended receivers |
|  | | *Model is associated with single ended pins and hence Vinh\_ac is mandatory* |
| **W3221** | RCVTH\_ERR\_21 | Model {modelName} Receiver Thresholds: Vinl\_ac must be specified for single ended receivers |
|  | | *Model is associated with single ended pins and hence Vinl\_ac is mandatory* |
| **W3222** | RCVTH\_ERR\_22 | Model {modelName} Receiver Thresholds: Vinh\_dc must be specified for single ended receivers |
|  | | *Model is associated with single ended pins and hence Vinh\_dc is mandatory* |
| **W3223** | RCVTH\_ERR\_23 | Model {modelName} Receiver Thresholds: Vinl\_dc must be specified for single ended receivers |
|  | | *Model is associated with single ended pins and hence Vinl\_dc is mandatory* |
| **W3224** | RCVTH\_ERR\_24 | Model {modelName} Receiver Thresholds: Tslew\_ac must be specified for single ended receivers |
|  | | *Model is associated with single ended pins and hence Tslew\_ac is mandatory* |
| **W3225** | RCVTH\_ERR\_25 | Model {modelName} Receiver Thresholds: Vcross\_low must not be specified for single ended receivers |
|  | | *[UNUSED}* |
| **W3226** | RCVTH\_ERR\_26 | Model {modelName} Receiver Thresholds: Vcross\_high must not be specified for single ended receivers |
|  | | *[UNUSED}* |
| **W3227** | RCVTH\_ERR\_27 | Model {modelName} Receiver Thresholds: Vdiff\_ac must not be specified for single ended receivers |
|  | | *[UNUSED}* |
| **W3228** | RCVTH\_ERR\_28 | Model {modelName} Receiver Thresholds: Vdiff\_dc must not be specified for single ended receivers |
|  | | *[UNUSED}* |
| **W3229** | RCVTH\_ERR\_29 | Model {modelName} Receiver Thresholds: Tdiffslew\_ac must not be specified for single ended receivers |
|  | | *[UNUSED}* |
| **E3230** | RCVTH\_ERR\_30 | ( line {lineNum} ) - Unknown Line Among Receiver Threshold Data |
|  | | *A line was found in the [Receiver Threshold] section wich was not a valid line* |
| **E3231** | RCVTH\_ERR\_31 | ( line {lineNum} ) - {paramName} Already Defined For Receiver Threshold |
|  | | *The parameter has been defined more than once in a [Receiver Thresholds] section* |
| **E3232** | RCVTH\_ERR\_32 | ( line {lineNum} ) - Invalid {paramName} Line |
|  | | *The data line for of [Receiver Thresholds] has an incorrect syntax* |
| **E3233** | RCVTH\_ERR\_33 | "( line {lineNum} ) - Invalid {paramName} Value (\""{paramValue}\"")" |
|  | | *An invalid value was specified for parameter in a [Receiver Thresholds] section* |
| **E3234** | RCVTH\_ERR\_34 | ( line {lineNum} ) - Unknown Reference\_supply {paramValue} specified |
|  | | *"The only allowed values for Reference\_supply parameter are ""Pullup\_reference""; ""Pulldown\_reference""; ""Power\_clamp\_reference""; ""Gnd\_clamp\_reference""; ""Ext\_reference"" but an invalid value was found"* |
| **B3300** | QUERY\_ERR\_0 | Out of Memory |
|  | | *Internal memory allocation error* |
| **B3400** | PKGMDL\_ERR\_0 | {sourceFile}:{sourceLinenum}:PKGMDL\_Init unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E3401** | PKGMDL\_ERR\_1 | ( line {lineNum} ) - Orphan Package Model keyword. |
|  | |  |
| **E3402** | PKGMDL\_ERR\_2 | ( line {lineNum} ) - Orphan Data Line. |
|  | |  |
| **B3403** | PKGMDL\_ERR\_3 | {sourceFile}:{sourceLinenum}:Illegal keyword. |
|  | | *Program data structures are corrupt in program file* |
| **E3404** | PKGMDL\_ERR\_4 | ( line {lineNum} ) - Orphan Data line. |
|  | |  |
| **B3405** | PKGMDL\_ERR\_5 | {sourceFile}:{sourceLinenum}:Illegal line type received. |
|  | | *Program data structures are corrupt in program file* |
| **B3406** | PKGMDL\_ERR\_6 | COMMAND.COM not available? |
|  | | *Could not fire the command interpreter for the underlying OS* |
| **B3407** | PKGMDL\_ERR\_7 | /bin/sh not available? |
|  | | *Could not fire the command interpreter for the underlying OS* |
| **B3408** | PKGMDL\_ERR\_8 | tmpnam() failed. |
|  | | *There is a bug in the code* |
| **B3409** | PKGMDL\_ERR\_9 | fopen({fileName}) failed. |
|  | | *Open of a temp file failed* |
| **E3410** | PKGMDL\_ERR\_10 | Define\_Package\_Model '{defPkgModel}' is duplicated within the .ibs file. |
|  | |  |
| **E3411** | PKGMDL\_ERR\_11 | Resistance\_Matrix cannot be specified when Number\_Of\_Sections is specified for Package Model {defPkgModel}. |
|  | |  |
| **E3412** | PKGMDL\_ERR\_12 | Inductance\_Matrix cannot be specified when Number\_Of\_Sections is specified for Package Model {defPkgModel}. |
|  | |  |
| **E3413** | PKGMDL\_ERR\_13 | Inductance matrix not found for Package Model '{defPkgModel}'. |
|  | |  |
| **E3414** | PKGMDL\_ERR\_14 | Capacitance\_Matrix cannot be specified when Number\_Of\_Sections is specified for Package Model {defPkgModel}. |
|  | |  |
| **E3415** | PKGMDL\_ERR\_15 | Capacitance matrix not found for Package Model '{defPkgModel}'. |
|  | |  |
| **E3416** | PKGMDL\_ERR\_16 | ( line {lineNum} ) - Unable to create new PKGMDL. |
|  | |  |
| **E3417** | PKGMDL\_ERR\_17 | Package Model keyword 'Define\_Package\_Model' not found or blank. |
|  | |  |
| **E3418** | PKGMDL\_ERR\_18 | OEM keyword not found for Package Model '{pkgModelName}'. |
|  | |  |
| **E3419** | PKGMDL\_ERR\_19 | Description keyword not found for Package Model '{pkgModelName}'. |
|  | |  |
| **E3420** | PKGMDL\_ERR\_20 | ( line {lineNum} ) - Blank Number\_of\_Pins value. |
|  | |  |
| **E3421** | PKGMDL\_ERR\_21 | ( line {lineNum} ) - Duplicate Number\_of\_Pins keyword. |
|  | |  |
| **W3422** | PKGMDL\_ERR\_22 | ( line {lineNum} ) - Suspicious Number\_of\_Pins value. |
|  | |  |
| **E3423** | PKGMDL\_ERR\_23 | ( line {lineNum} ) - Bad Number\_of\_Pins value. |
|  | |  |
| **E3424** | PKGMDL\_ERR\_24 | ( line {lineNum} ) - Number\_of\_Pins = 0. |
|  | |  |
| **E3425** | PKGMDL\_ERR\_25 | ( line {lineNum} ) - Blank Number\_of\_Sections value. |
|  | |  |
| **E3426** | PKGMDL\_ERR\_26 | ( line {lineNum} ) - Duplicate Number\_of\_Sections keyword. |
|  | |  |
| **E3427** | PKGMDL\_ERR\_27 | ( line {lineNum} ) - Number of Sections should be specified before Pin Numbers |
|  | |  |
| **W3428** | PKGMDL\_ERR\_28 | ( line {lineNum} ) - Suspicious Number\_of\_Sections value. |
|  | |  |
| **E3429** | PKGMDL\_ERR\_29 | ( line {lineNum} ) - Bad Number\_of\_Sections value. |
|  | |  |
| **E3430** | PKGMDL\_ERR\_30 | ( line {lineNum} ) - Number\_of\_Sections = 0. |
|  | |  |
| **E3431** | PKGMDL\_ERR\_31 | Number\_of\_Pins keyword not found or value bad for Package Model '{pkgModelName}'. |
|  | |  |
| **E3432** | PKGMDL\_ERR\_32 | ( line {lineNum} ) - Pin Numbers name string too long. will be truncated. |
|  | |  |
| **E3433** | PKGMDL\_ERR\_33 | ( line {lineNum} ) - Number of Pins is zero,unable to add Pin Number. |
|  | |  |
| **E3434** | PKGMDL\_ERR\_34 | ( line {lineNum} ) - Unable to allocate Pin\_Numbers array. |
|  | |  |
| **E3435** | PKGMDL\_ERR\_35 | ( line {lineNum} ) - More Pin Numbers names than Number of pins. |
|  | |  |
| **E3436** | PKGMDL\_ERR\_36 | ( line {lineNum} ) - Unable to allocate PIN. |
|  | | *Memory allocation for a new pin failed in the [Package Model] section* |
| **E3437** | PKGMDL\_ERR\_37 | ( line {lineNum} ) - Duplicate Pin . |
|  | |  |
| **E3438** | PKGMDL\_ERR\_38 | ( line {lineNum} ) - Detected the start of an orphan R/L/C section |
|  | |  |
| **E3439** | PKGMDL\_ERR\_39 | ( line {lineNum} ) - Cannot Nest Forks |
|  | |  |
| **E3440** | PKGMDL\_ERR\_40 | ( line {lineNum} ) - Detected the start of an orphan 'Fork' |
|  | |  |
| **E3441** | PKGMDL\_ERR\_41 | ( line {lineNum} ) - Detected the start of an orphan 'Endfork' |
|  | |  |
| **E3442** | PKGMDL\_ERR\_42 | ( line {lineNum} ) - Empty Fork/Endfork found |
|  | |  |
| **E3443** | PKGMDL\_ERR\_43 | ( line {lineNum} ) - Endfork found without enclosing Fork |
|  | |  |
| **E3444** | PKGMDL\_ERR\_44 | ( line {lineNum} ) - A new Pin {pinName} has been defined before terminating a previous Fork with the corresponding Endfork |
|  | |  |
| **W3445** | PKGMDL\_ERR\_45 | ( line {lineNum} ) - Found a Pin Name '{pinName}' containing '='. Possible syntax error |
|  | |  |
| **W3446** | PKGMDL\_ERR\_46 | ( line {lineNum} ) - Found a Pin Name '{pinName}' containing '/'. Possible syntax error |
|  | |  |
| **W3447** | PKGMDL\_ERR\_47 | ( line {lineNum} ) - Found a Pin Name '{pinName}'. Possible syntax error |
|  | |  |
| **E3448** | PKGMDL\_ERR\_48 | ( line {lineNum} ) - Unable to allocate Pin\_Sections array. |
|  | |  |
| **E3449** | PKGMDL\_ERR\_49 | ( line {lineNum} ) - No Sections were defined for this pin even though [Number of Sections] was defined. |
|  | |  |
| **E3450** | PKGMDL\_ERR\_50 | Some Fork sub parameters were not terminated with Endfork |
|  | |  |
| **E3451** | PKGMDL\_ERR\_51 | Pin '{pin}' has {actualSections} sections. This is greater than the Number of Sections {specSections} specified |
|  | |  |
| **E3452** | PKGMDL\_ERR\_52 | Required keyword Pin\_Numbers not found for Package Model '{pkgModelName}'. |
|  | |  |
| **E3453** | PKGMDL\_ERR\_53 | No Pin Numbers names found for Package Model '{pkgModelName}'. |
|  | |  |
| **E3454** | PKGMDL\_ERR\_54 | Number of Pins not the same as count of Pin Numbers names found for Package Model '{pkgModelName}'. |
|  | |  |
| **E3455** | PKGMDL\_ERR\_55 | Required Model\_Data keyword not found for package {defPkgModel}. |
|  | |  |
| **E3456** | PKGMDL\_ERR\_56 | Model\_Data cannot be specified when Number\_Of\_Sections is specified for package {defPkgModel}. |
|  | |  |
| **E3457** | PKGMDL\_ERR\_57 | Required End\_Model\_Data keyword not found for package {defPkgModel}. |
|  | |  |
| **E3458** | PKGMDL\_ERR\_58 | End\_Model\_Data cannot be specified when Number\_Of\_Sections is specified for package {defPkgModel}. |
|  | |  |
| **E3459** | PKGMDL\_ERR\_59 | Required End\_Package\_Model keyword not found. |
|  | |  |
| **E3460** | PKGMDL\_ERR\_60 | ( line {lineNum} ) - Duplicate Resistance Matrix. |
|  | |  |
| **E3461** | PKGMDL\_ERR\_61 | ( line {lineNum} ) - Duplicate Inductance Matrix. |
|  | |  |
| **E3462** | PKGMDL\_ERR\_62 | ( line {lineNum} ) - Duplicate Capacitance Matrix. |
|  | |  |
| **B3463** | PKGMDL\_ERR\_63 | {sourceFile}:{sourceLinenum}:Illegal current matrix. |
|  | |  |
| **E3464** | PKGMDL\_ERR\_64 | ( line {lineNum} ) - Multiple Bandwidth keywords. |
|  | |  |
| **E3465** | PKGMDL\_ERR\_65 | ( line {lineNum} ) - Bandwidth keyword in wrong location. |
|  | |  |
| **E3466** | PKGMDL\_ERR\_66 | ( line {lineNum} ) - Row keyword in wrong location. |
|  | |  |
| **E3467** | PKGMDL\_ERR\_67 | Keyword '{keyword}' not found or blank for Package Model '{pkgModelName}'. |
|  | |  |
| **E3468** | PKGMDL\_ERR\_68 | ( line {lineNum} ) - Duplicate '{keyword}' keyword found. |
|  | |  |
| **E3469** | PKGMDL\_ERR\_69 | ( line {lineNum} ) - Extraneous data on '{keyword}' line. |
|  | |  |
| **B3470** | PKGMDL\_ERR\_70 | Unable to remove({fileName}). |
|  | | *Temporary file could not be removed.* |
| **E3471** | PKGMDL\_ERR\_71 | [Merged Pins] should be defined after [Pin Numbers] and before [Model Data] |
|  | | *[Merged Pins] should be defined after [Pin Numbers] and before [Model Data]* |
| **E3472** | PKGMDL\_ERR\_72 | Package Model {pkgModelName}: [Merged Pins] can only be specified if [Model Data] is also specified |
|  | | *Package has a [Merged Pins] section but no [Model Data] section* |
| **E3473** | PKGMDL\_ERR\_73 | [Merged Pins] Pin {pinName} not found in the [Pin Numbers] section |
|  | | *The Merged Pin is not defined in the [Pin Numbers] section of the Package* |
| **E3474** | PKGMDL\_ERR\_74 | [Merged Pins] connecting Pin {pinName} must not be defined in [Pin Numbers] section |
|  | | *The Pin connected to a Merging Pin was found in the [Pin Numbers] section of the Package* |
| **E3475** | PKGMDL\_ERR\_75 | No connecting pins found for [Merged Pins] defined on line {lineNum} |
|  | | *No Pins were connected to the Merging Pin defined in the [Merged Pins] section on line* |

## Message Codes 3500 to 3999

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **B3600** | NODE\_ERR\_0 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E3700** | MTX\_ERR\_0 | ( line {lineNum} ) - Unable to allocate MTX. |
|  | | *The code failed to allocate the required memory* |
| **E3701** | MTX\_ERR\_1 | ( line {lineNum} ) - Matrix type not specified. |
|  | |  |
| **E3702** | MTX\_ERR\_2 | ( line {lineNum} ) - Unknown matrix type '{type}'. |
|  | |  |
| **E3703** | MTX\_ERR\_3 | ( line {lineNum} ) - Bandwidth only allowed for Banded Matrices |
|  | |  |
| **E3704** | MTX\_ERR\_4 | ( line {lineNum} ) - Bad Bandwidth value. |
|  | | *An invalid numberc value was specified* |
| **E3705** | MTX\_ERR\_5 | ( line {lineNum} ) - Suspicious Bandwidth value. |
|  | |  |
| **E3706** | MTX\_ERR\_6 | ( line {lineNum} ) - Bandwidth must be less than Number\_of\_Pins . |
|  | |  |
| **B3707** | MTX\_ERR\_7 | ( line {lineNum} ) - gpMtx is NULL,cannot reset banded wrap type. |
|  | |  |
| **E3708** | MTX\_ERR\_8 | ( line {lineNum} ) - Bandwidth for this Banded, circle-back matrix exceeds the limit of {maxBandwidth}. |
|  | |  |
| **B3709** | MTX\_ERR\_9 | ( line {lineNum} ) - gpMtx->eMatrixType is alreaded banded wrap |
|  | |  |
| **B3710** | MTX\_ERR\_10 | ( line {lineNum} ) - gpMtx->eMatrixType is not a banded type,cannot reset banded wrap type. |
|  | |  |
| **B3711** | MTX\_ERR\_11 | ( line {lineNum} ) - gpMtx is NULL,cannot determine banded wrap type. |
|  | |  |
| **B3712** | MTX\_ERR\_12 | ( line {lineNum} ) - gpMtx->eMatrixType is not a banded type, cannot determine banded wrap type. |
|  | |  |
| **B3713** | MTX\_ERR\_13 | ( line {lineNum} ) - gpMtx is NULL,cannot determine row count. |
|  | |  |
| **B3714** | MTX\_ERR\_14 | ( line {lineNum} ) - gpMtx is NULL,cannot determine bandwidth. |
|  | |  |
| **B3715** | MTX\_ERR\_15 | ( line {lineNum} ) - gpMtx is not banded type, cannot determine bandwidth. |
|  | |  |
| **E3716** | MTX\_ERR\_16 | The {matrixType} Matrix is Banded and requires the 'Bandwidth' keyword. |
|  | |  |
| **E3717** | MTX\_ERR\_17 | ( line {lineNum} ) - Expected {declaredRows} Rows,found {actualRows} for Matrix ending previous to this line. |
|  | |  |
| **B3718** | MTX\_ERR\_18 | ( line {lineNum} ) - gpMtx->eMatrixType is unknown,cannot determine CheckColumnCount. |
|  | |  |
| **E3719** | MTX\_ERR\_19 | Package {pkgModelName}: The {Resistance|Inductance|Capacitance} Matrix has diagonal element {value} at row {rowNum} which is negative |
|  | |  |
| **W3720** | MTX\_ERR\_20 | Package {pkgModelName}: The {Resistance|Inductance} Matrix has diagonal element {diagVal} at row {rowNum} whose magnitude is less than off diagonal element {offDiagVal} at col {colNum} |
|  | |  |
| **E3721** | MTX\_ERR\_21 | Package {pkgModelName}: The {Capacitance} Matrix has diagonal element {diagVal} at row {rowNum} whose magnitude is less than the sum of off diagonal elements {offDiagVal} |
|  | |  |
| **E3722** | MTX\_ERR\_22 | Package {pkgModelName}: The {Capacitance} Matrix has off-diagonal element {offDiagVal} at row {rowNum} col {colNum} which is positive |
|  | |  |
| **E3800** | MSPEC\_ERR\_0 | ( line {lineNum} ) - Model Specification: Already Defined for this model |
|  | |  |
| **B3801** | MSPEC\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B3802** | MSPEC\_ERR\_2 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B3803** | MSPEC\_ERR\_3 | Unable to Parse {subparam}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E3804** | MSPEC\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **W3805** | MSPEC\_ERR\_5 | ( line {lineNum} ) - {subparam} should not be specified for model type {modelType} |
|  | | *Indicates an illegal combination of Model Spec and the of the associated model. Vinl; Vinh; Vinl+; Vinl-; Vinh+ and Vinh- should be specified with model types which are input or I/O; S\_overshoot\_high; S\_overshoot\_low; D\_overshoot\_high; D\_overshoot\_low and D\_overshoot\_time should not be specified for Series and Series\_switch; Pulse\_high; Pulse\_low and Pulse\_time should be specified ith model types which are input or I/O; Vref; Rref; Cref; Vmeas; Vref\_rising; Rref\_rising; Cref\_rising; Vmeas\_rising; Vref\_falling; Rref\_falling; Cref\_falling and Vmeas\_falling should not be specified with Input; Input\_ECL; Terminator; Series and Series\_switch model types; Rref\_diff and Cref\_diff should be specified with Input\_diff; I/O\_diff; Output\_diff and 3-state\_diff.* |
| **E3806** | MSPEC\_ERR\_6 | ( line {lineNum} ) - Unknown Line Among Model Spec Data |
|  | | *A line was found in the [Model Spec] section wich was not a valid line* |
| **E3807** | MSPEC\_ERR\_7 | ( line {lineNum} ) - {subparam} Already Defined For Model '{modelName}' |
|  | | *The sub parameter is defined more than once in the [Model Spec] section of model* |
| **E3808** | MSPEC\_ERR\_8 | ( line {lineNum} ) - 'NA' not allowed for Typical value |
|  | | *The typical value in a Range cannot be NA* |
| **W3809** | MSPEC\_ERR\_9 | All {lineNum} Hystereis Thresholds should be specified for Model Spec defined on line {modelSpecLinenum} |
|  | | *Not all hysteresis thresholds (Vinl+; Vinl-; Vinh+; Vinh-) were defined in the [Model Spec] section which was defined on line* |
| **W3810** | MSPEC\_ERR\_10 | {subparam} is greater than zero for Model Spec defined on line {modelSpecLinenum} |
|  | | *[UNUSED}* |
| **W3811** | MSPEC\_ERR\_11 | {subparam} is less than zero for Model Spec defined on line {modelSpecLinenum} |
|  | | *[UNUSED}* |
| **E3812** | MSPEC\_ERR\_12 | {subparam1} requires {subparam2} to be specified for Model Spec defined on line {lineNum} |
|  | | *A generic error message which indicates that must be specified when is sepcified for [Model Spec] defined on . D\_overshoot\_low requires S\_overshoot\_low and D\_overshoot\_time; D\_overshoot\_high requires S\_overshoot\_high and D\_overshoot\_time; Pulse\_low requires Pulse\_time and Thresholds or Hysteresis Thresholds; Pulse\_high requires Pulse\_time and Thresholds or Hysteresis Thresholds.* |
| **E3813** | MSPEC\_ERR\_13 | {subparam1} must be specified when {subparam2} is specified for [Model Spec] defined on line {modelSpecLinenum} |
|  | | *A generic error message which indicates that must be specified when is specified for [Model Spec] defined on . D\_overshoot\_area\_h requires D\_overshoot\_ampl\_h and D\_overshoot\_area\_l requires D\_overshoot\_ampl\_l.* |
| **W3814** | MSPEC\_ERR\_14 | orphan {subparam} found for Model Spec defined on line {modelSpecLinenum} |
|  | | *A lone was specified for [Model Spec] defined on without other associated subparameters. Pulse\_time was specified without Pulse\_high or Pulse\_low; or D\_overshoot\_time was specified without D\_overshoot\_high or D\_overshoot\_low* |
| **E3815** | MSPEC\_ERR\_15 | {subparam1} must be specified when {subparam2} is specified |
|  | | *A generic error which indicates that must also be specified when is specified in a [Model Spec] section.Vmeas\_rising requires Vmeas\_falling and vice versa; Vref\_rising requires Vref\_falling and vice versa; Rref\_rising requires Rref\_falling and vice versa; Cref\_rising requires Cref\_falling and vice versa* |
| **E3816** | MSPEC\_ERR\_16 | {subparam1} must not be specified when {subparam2} is specified |
|  | | *A generic error which indicates that must not be specified when is specified in a [Model Spec] section.Vmeas should not be specified when Vmeas\_rising/falling are specified; Rref should not be specified when Rref\_rising/falling are specified; Vref should not be specified when Vref\_rising/falling are specified; Cref should not be specified when Cref\_rising/falling are specified.* |
| **W3817** | MSPEC\_ERR\_17 | {subparam1}({rangeType1}) is not less than {subparam2}({rangeType2}) for Model Spec defined on line {lineNum} |
|  | | *The should be less than for the [Model Spec] section defined on . D\_overshoot\_low should be less than S\_overshoot\_low; Pulse\_low should be less than Vinl+; Pulse\_low should be less than Vinh;* |
| **W3818** | MSPEC\_ERR\_18 | {subparam1}({rangeType1}) is not greater than {subparam2}({rangeType2}) for Model Spec defined on line {lineNum} |
|  | | *The should be greater than for the [Model Spec] section defined on . D\_overshoot\_high should be greater than S\_overshoot\_high; Pulse\_high should be greater than Vinl-; Pulse\_high should be greater than Vinl* |
| **W3819** | MSPEC\_ERR\_19 | {subparam1}({rangeType1}) is not less than or equal to {subparam2}({rangeType2}) for Model Spec defined on line {lineNum} |
|  | | *Unused* |
| **W3820** | MSPEC\_ERR\_20 | {subparam1}({rangeType1}) is not greater than or equal to {subparam2}({rangeType2}) for Model Spec defined on line {lineNum} |
|  | | *The should not be less than for the [Model Spec] section defined on . Vinh+ should not be less than Vinh-; Vinl+ should not be less than Vinl-;* |
| **E3821** | MSPEC\_ERR\_21 | Weak\_R and Weak\_I cannot be specified together in Model Spec |
|  | | *Both Weak\_R and Weak\_I values cannot be specified in a Model Spec* |
| **E3822** | MSPEC\_ERR\_22 | (Weak\_R and Weak\_V) or (Weak\_I and Weak\_V) must be specified in Model Spec |
|  | | *Either the combination Weak\_R; Weak\_V or the combination Weak\_I;Weak\_V must be specified in a Model Spec* |
| **B3900** | RNG\_ERR\_0 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E3901** | RNG\_ERR\_1 | ( line {lineNum} ) - No {minimum|maximum} Value Was Provided for {subparam} |
|  | |  |
| **E3902** | RNG\_ERR\_2 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **W3903** | RNG\_ERR\_3 | ( line {lineNum} ) - Typ value is not in between Min and Max |
|  | |  |
| **B3904** | RNG\_ERR\_4 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |

## Message Codes 4000 to 4499

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **B4000** | MSEL\_ERR\_0 | {sourceFile}:{sourceLinenum}:MSEL\_Init unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E4001** | MSEL\_ERR\_1 | ( line {lineNum} ) - Orphan Model Selector keyword. |
|  | | *An unexpected [Model Selector] section was found* |
| **E4002** | MSEL\_ERR\_2 | ( line {lineNum} ) - Orphan Data Line. |
|  | | *A [Model Selector] related data line was found outside of a [Model Selector] section* |
| **B4003** | MSEL\_ERR\_3 | {sourceFile}:{sourceLinenum}:Illegal keyword. |
|  | | *Program data structures are corrupt in program file* |
| **B4004** | MSEL\_ERR\_4 | {sourceFile}:{sourceLinenum}:Illegal line type received. |
|  | | *Program data structures are corrupt in program file* |
| **E4005** | MSEL\_ERR\_5 | Model Selector: '{modelSelectorName}' has no models defined |
|  | | *The [Model Selector] section did not have any models defined in it* |
| **W4006** | MSEL\_ERR\_6 | Model Selector: '{modelSelectorName}' has only one model defined |
|  | | *The [Model Selector] section has only one model defined in it* |
| **E4007** | MSEL\_ERR\_7 | ( line {lineNum} ) - Unable to create new MSEL. |
|  | | *The code failed to allocate the required memory* |
| **E4008** | MSEL\_ERR\_8 | ( line {lineNum} ) - Unable to create new MSEL Model. |
|  | | *The code failed to allocate the required memory* |
| **E4009** | MSEL\_ERR\_9 | Unable to Save Model Selector Name |
|  | | *The code failed to allocate the required memory* |
| **E4010** | MSEL\_ERR\_10 | ( line {lineNum} ) - 'Model Selector' Keyword Missing name |
|  | | *A [Model Selector] section should have a name defined on the keyword line* |
| **E4011** | MSEL\_ERR\_11 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For Keyword {keyword}: Expecting {numberOfItemsExpected} |
|  | | *The keyword should have had items on the keyword line but only number of data items were found* |
| **E4012** | MSEL\_ERR\_12 | ( line {lineNum} ) - Model Selector Name Over {maxChars} Characters Long |
|  | |  |
| **E4013** | MSEL\_ERR\_13 | "( line {lineNum} ) - Invalid Model SelectorName (\""{modelSelectorName}\""), Reserved Word." |
|  | |  |
| **E4014** | MSEL\_ERR\_14 | "( line {lineNum} ) - Model Selector Name Previously Defined (\""{modelSelectorName}\"")" |
|  | | *A [Model Selector] section with name should be defined at most once* |
| **B4015** | MSEL\_ERR\_15 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E4016** | MSEL\_ERR\_16 | ( line {lineNum} ) - 'Model Selector' Keyword: Missing model name |
|  | |  |
| **E4017** | MSEL\_ERR\_17 | ( line {lineNum} ) - Model Name Over {maxChars} Characters Long |
|  | | *[UNUSED}* |
| **E4018** | MSEL\_ERR\_18 | "( line {lineNum} ) - Invalid Model Name (\""NA\"")" |
|  | |  |
| **E4019** | MSEL\_ERR\_19 | ( line {lineNum} ) - Model Descriptor string '{descriptor}' is too long,truncating to {length} characters. |
|  | |  |
| **B4020** | MSEL\_ERR\_20 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E4021** | MSEL\_ERR\_21 | '{modelSelectorName}' is the name of a Model and a Model Selector |
|  | | *The Model Selector name is also the name of a Model in the file* |
| **W4022** | MSEL\_ERR\_22 | Model {modelName} in Model Selector {modelSelectorName} is Differential,but this Model Selector contains Single Ended models too |
|  | |  |
| **W4023** | MSEL\_ERR\_23 | Model {modelName} in Model Selector {modelSelectorName} is Single Ended, but this Model Selector contains Differential models too |
|  | |  |
| **E4024** | MSEL\_ERR\_24 | Model '{modelName}' in Model Selector '{modelSelectorName}' is not defined in the file |
|  | | *The model referred to in the [Model Selector] section is not defined in the ibis file* |
| **E4025** | MSEL\_ERR\_25 | ( line {lineNum} ) - Model '{modelName}'. already used in this Model Selector |
|  | | *A model name can be referred to at most once in a [Model Selector] section* |
| **W4026** | MSEL\_ERR\_26 | Model Selector '{modelSelectorName}' is not associated with any Pin or Series Pin Mapping |
|  | | *The [Model Selector] has not been associated with any Pin or Series Pin Mapping ( ie; it is unreferenced in the ibis file)* |
| **E4100** | IBIS\_ERR\_0 | Unable to create IBIS. |
|  | | *Internal memory allocation error* |
| **E4101** | IBIS\_ERR\_1 | Required keyword 'Component' not found. |
|  | | *The [Component] keyword is mandatory in an IBIS file* |
| **E4200** | DRVSH\_ERR\_0 | ( line {lineNum} ) - Driver Schedule: Already Defined for this model |
|  | | *More than one [Driver Schedule] section should not be defined for a model* |
| **B4201** | DRVSH\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B4202** | DRVSH\_ERR\_2 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B4203** | DRVSH\_ERR\_3 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E4204** | DRVSH\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E4205** | DRVSH\_ERR\_5 | Model '{modelName}': The [Driver\_Schedule] has no models defined |
|  | | *The [Driver Schedule] section for model is empty* |
| **W4206** | DRVSH\_ERR\_6 | Model '{model}': The [Driver\_Schedule] has only one model defined |
|  | | *The [Driver Schedule] section for model refers to only one model* |
| **E4207** | DRVSH\_ERR\_7 | Model {refModel} used in the Driver Schedule of Model {modelName} is not defined |
|  | | *The model referred to in the [Driver Schdule] section of model is not defined* |
| **E4208** | DRVSH\_ERR\_8 | Model {refModel} used in the Driver Schedule of Model {modelName} cannot itself have a Driver Schedule |
|  | | *The model referred to in the [Driver Schdule] section of model cannot itself have an associated driver schedule* |
| **E4209** | DRVSH\_ERR\_9 | Model {refModel} used in the Driver Schedule of Model {modelName} should be an output model |
|  | | *The model referred to in the [Driver Schdule] section of model should be an output model type* |
| **E4210** | DRVSH\_ERR\_10 | Unable to Set Model Name in Driver Schedule |
|  | | *Internal memory allocation error* |
| **E4211** | DRVSH\_ERR\_11 | ( line {lineNum} ) - 'Driver Schedule' Missing model Name |
|  | |  |
| **E4212** | DRVSH\_ERR\_12 | ( line {lineNum} ) - Model Name Over {maxChars} Characters Long |
|  | |  |
| **E4213** | DRVSH\_ERR\_13 | "( line {lineNum} ) - Model Name in Driver Schedule is the same as enclosing Model (\""{modelName}\"")" |
|  | |  |
| **E4214** | DRVSH\_ERR\_14 | "( line {lineNum} ) - Invalid Model Name in Driver Schedule (\""{modelName}\""), Reserved Word." |
|  | | *A reserved word was used as a model name in a [Driver Schedule] section* |
| **E4215** | DRVSH\_ERR\_15 | "( line {lineNum} ) - Model Name (\""{modelName}\"") previously used in this Driver Schedule" |
|  | | *The model has been referred to more than once in a [Driver Schdedue] section* |
| **E4216** | DRVSH\_ERR\_16 | ( line {lineNum} ) - Unable to create new Driver Schedule Model. |
|  | | *Internal memory allocation error* |
| **B4300** | EBDMDL\_ERR\_0 | {sourceFile}:{sourceLinenum}:EBDMDL\_Init unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E4301** | EBDMDL\_ERR\_1 | ( line {lineNum} ) - Orphan Electrical Board Description keyword. |
|  | |  |
| **E4302** | EBDMDL\_ERR\_2 | ( line {lineNum} ) - Orphan Data Line. |
|  | |  |
| **E4303** | EBDMDL\_ERR\_3 | ( line {lineNum} ) - Detected previous unterminated Forks |
|  | |  |
| **B4304** | EBDMDL\_ERR\_4 | {sourceFile}:{sourceLinenum}:Illegal keyword. |
|  | | *Program data structures are corrupt in program file* |
| **B4305** | EBDMDL\_ERR\_5 | {sourceFile}:{sourceLinenum}:Illegal line type received. |
|  | | *Program data structures are corrupt in program file* |
| **E4306** | EBDMDL\_ERR\_6 | Board Description '{ebdModel}' is duplicated within the .ebd file. |
|  | |  |
| **E4307** | EBDMDL\_ERR\_7 | ( line {lineNum} ) - Unable to create new EBDMDL. |
|  | | *Memory allocation for a new EBD model failed* |
| **E4308** | EBDMDL\_ERR\_8 | Ebd Model keyword 'Begin\_Board\_Description' not found or blank. |
|  | |  |
| **E4309** | EBDMDL\_ERR\_9 | ( line {lineNum} ) - Duplicate [Number of Pins] keyword |
|  | | *There should only be a single [Number of Pins] section in an EBD model* |
| **E4310** | EBDMDL\_ERR\_10 | ( line {lineNum} ) - Blank Number\_of\_Pins value. |
|  | | *The number of pins was not specified with the [Number of Pins] keyword* |
| **E4311** | EBDMDL\_ERR\_11 | ( line {lineNum} ) - Duplicate Number\_of\_Pins keyword. |
|  | | *More than one [Number of Pins] keyword was found* |
| **W4312** | EBDMDL\_ERR\_12 | ( line {lineNum} ) - Suspicious Number\_of\_Pins value. |
|  | | *The number of pins value has a partially incorrect format* |
| **E4313** | EBDMDL\_ERR\_13 | ( line {lineNum} ) - Bad Number\_of\_Pins value. |
|  | | *The number of pins value could not be parsed* |
| **E4314** | EBDMDL\_ERR\_14 | ( line {lineNum} ) - Number\_of\_Pins = 0. |
|  | | *The number of pins was specified as 0* |
| **E4315** | EBDMDL\_ERR\_15 | Number\_of\_Pins keyword not found or value bad for Ebd Model '{ebdModel}'. |
|  | |  |
| **E4316** | EBDMDL\_ERR\_16 | ( line {lineNum} ) - No Pin\_name found . |
|  | |  |
| **E4317** | EBDMDL\_ERR\_17 | ( line {lineNum} ) - Pin name string too long. will be truncated. |
|  | |  |
| **E4318** | EBDMDL\_ERR\_18 | ( line {lineNum} ) - Number of Pins is zero,unable to add Pin Number. |
|  | |  |
| **E4319** | EBDMDL\_ERR\_19 | ( line {lineNum} ) - Unable to allocate Pin\_Name array. |
|  | | *The code failed to allocate the required memory* |
| **E4320** | EBDMDL\_ERR\_20 | ( line {lineNum} ) - More Pin Numbers names than Number of pins. |
|  | |  |
| **E4321** | EBDMDL\_ERR\_21 | ( line {lineNum} ) - Unable to allocate PIN. |
|  | | *The code failed to allocate the required memory* |
| **E4322** | EBDMDL\_ERR\_22 | ( line {lineNum} ) - Duplicate Pin . |
|  | |  |
| **E4323** | EBDMDL\_ERR\_23 | ( line {lineNum} ) - No signal\_name found |
|  | |  |
| **E4324** | EBDMDL\_ERR\_24 | ( line {lineNum} ) - signal\_name too long. will be truncated. |
|  | |  |
| **E4325** | EBDMDL\_ERR\_25 | ( line {lineNum} ) - Unexpected data after signal\_name. |
|  | |  |
| **E4326** | EBDMDL\_ERR\_26 | Required keyword Pin\_List not found. |
|  | |  |
| **E4327** | EBDMDL\_ERR\_27 | No Pin Numbers names found. |
|  | |  |
| **E4328** | EBDMDL\_ERR\_28 | Pin '{pinName}' was not referenced on any Electrical Path |
|  | |  |
| **W4329** | EBDMDL\_ERR\_29 | Pin '{pinName}' was referenced on Electrical Paths but is implicitly connected to a power or a gnd plane |
|  | |  |
| **E4330** | EBDMDL\_ERR\_30 | Pin '{pin}' was referenced {count} times on Electrical Paths |
|  | |  |
| **E4331** | EBDMDL\_ERR\_31 | Number of Pins not the same as count of Pin Numbers names found . |
|  | |  |
| **E4332** | EBDMDL\_ERR\_32 | Required End\_Board\_Description keyword not found. |
|  | |  |
| **E4333** | EBDMDL\_ERR\_33 | Keyword '{keyword}' not found or blank for Ebd Model '{ebdModel}'. |
|  | |  |
| **E4334** | EBDMDL\_ERR\_34 | ( line {lineNum} ) - Duplicate '{keyword}' keyword found. |
|  | |  |
| **E4335** | EBDMDL\_ERR\_35 | ( line {lineNum} ) - Extraneous data on '{keyword}' line. |
|  | |  |
| **E4336** | EBDMDL\_ERR\_36 | ( line {lineNum} ) - Duplicate [Pin List] keyword found. |
|  | |  |
| **E4337** | EBDMDL\_ERR\_37 | ( line {lineNum} ) - Unable to find 'signal\_name' after [Pin List] keyword. |
|  | |  |
| **E4338** | EBDMDL\_ERR\_38 | ( line {lineNum} ) - 'signal\_name' column header not found. |
|  | |  |
| **E4339** | EBDMDL\_ERR\_39 | ( line {lineNum} ) - Unrecognized data after 'signal\_name' |
|  | |  |
| **E4340** | EBDMDL\_ERR\_40 | ( line {lineNum} ) - Unexpected '=' found |
|  | |  |
| **E4341** | EBDMDL\_ERR\_41 | ( line {lineNum} ) - Unexpected '/' found |
|  | |  |
| **E4342** | EBDMDL\_ERR\_42 | ( line {lineNum} ) - Detected the start of an orphan R/L/C section |
|  | |  |
| **B4343** | EBDMDL\_ERR\_43 | Internal program bug in {sourceFile} at {sourceLinenum} |
|  | | *[UNUSED}* |
| **E4344** | EBDMDL\_ERR\_44 | ( line {lineNum} ) - Detected the start of an orphan 'NC' |
|  | |  |
| **E4345** | EBDMDL\_ERR\_45 | ( line {lineNum} ) - Detected the start of an orphan 'Fork' |
|  | |  |
| **E4346** | EBDMDL\_ERR\_46 | ( line {lineNum} ) - Detected the start of an orphan 'Endfork' |
|  | |  |
| **E4347** | EBDMDL\_ERR\_47 | ( line {lineNum} ) - Empty Fork/Endfork found |
|  | |  |
| **E4348** | EBDMDL\_ERR\_48 | ( line {lineNum} ) - Endfork found without enclosing Fork |
|  | |  |
| **E4349** | EBDMDL\_ERR\_49 | ( line {lineNum} ) - No Pin Name found after Pin sub param |
|  | |  |
| **E4350** | EBDMDL\_ERR\_50 | ( line {lineNum} ) - No ref\_designatior.pin found after Node sub param |
|  | |  |
| **E4351** | EBDMDL\_ERR\_51 | ( line {lineNum} ) - Detected an orphan 'Node' sub param |
|  | |  |
| **E4352** | EBDMDL\_ERR\_52 | ( line {lineNum} ) - Unknown token found: '{text}' |
|  | |  |
| **E4353** | EBDMDL\_ERR\_53 | ( line {lineNum} ) - Unable to create new EBDPATH. |
|  | | *The code failed to allocate the required memory* |
| **E4354** | EBDMDL\_ERR\_54 | ( line {lineNum} ) - Duplicate Path\_Description '{path}' |
|  | |  |
| **E4355** | EBDMDL\_ERR\_55 | EBD Model '{ebdModel}' has no paths defined |
|  | |  |
| **E4356** | EBDMDL\_ERR\_56 | Path Descriptor '{path}' has no segments |
|  | |  |
| **E4357** | EBDMDL\_ERR\_57 | Path {path} or a branch does not terminate after NC |
|  | |  |
| **E4358** | EBDMDL\_ERR\_58 | Pin '{pin}' used in Path '{path}' not defined |
|  | |  |
| **E4359** | EBDMDL\_ERR\_59 | Reference Designator '{refdes}' used in Path '{path}' not defined |
|  | |  |
| **E4360** | EBDMDL\_ERR\_60 | ( line {lineNum} ) - Could not allocate path element |
|  | | *The code failed to allocate the required memory* |
| **E4361** | EBDMDL\_ERR\_61 | ( line {lineNum} ) - Pin\_name string too long. will be truncated. |
|  | |  |
| **W4362** | EBDMDL\_ERR\_62 | ( line {lineNum} ) - Found a Pin Name '{pinName}' containing '/'. Possible syntax error |
|  | |  |
| **W4363** | EBDMDL\_ERR\_63 | ( line {lineNum} ) - Found a Pin Name '{pinName}' containing '='. Possible syntax error |
|  | |  |
| **W4364** | EBDMDL\_ERR\_64 | ( line {lineNum} ) - Found a Pin Name '{pinName}'. Possible syntax error |
|  | |  |
| **E4365** | EBDMDL\_ERR\_65 | ( line {lineNum} ) - Cannot allocate path element |
|  | | *The code failed to allocate the required memory* |
| **E4366** | EBDMDL\_ERR\_66 | ( line {lineNum} ) - Cannot allocate path element pin |
|  | | *The code failed to allocate the required memory* |
| **E4367** | EBDMDL\_ERR\_67 | ( line {lineNum} ) - Cannot allocate path element node |
|  | | *The code failed to allocate the required memory* |
| **E4368** | EBDMDL\_ERR\_68 | ( line {lineNum} ) - Invalid Node specified. Missing '.' |
|  | |  |
| **E4369** | EBDMDL\_ERR\_69 | ( line {lineNum} ) - Node Reference designator string too long. will be truncated. |
|  | |  |
| **E4370** | EBDMDL\_ERR\_70 | ( line {lineNum} ) - Node Pin name string too long. will be truncated. |
|  | |  |
| **W4371** | EBDMDL\_ERR\_71 | ( line {lineNum} ) - Found a Node '{nodeName}' containing '='. Possible syntax error |
|  | |  |
| **W4372** | EBDMDL\_ERR\_72 | ( line {lineNum} ) - Found a Node '{nodeName}' containing '/'. Possible syntax error |
|  | |  |
| **W4373** | EBDMDL\_ERR\_73 | ( line {lineNum} ) - Found a Node '{nodeName}'. Possible syntax error |
|  | |  |
| **E4374** | EBDMDL\_ERR\_74 | ( line {lineNum} ) - Cannot allocate reference designator |
|  | | *The code failed to allocate the required memory* |
| **E4375** | EBDMDL\_ERR\_75 | ( line {lineNum} ) - Reference Designator name '{refdes}' too long. Will be truncated |
|  | |  |
| **E4376** | EBDMDL\_ERR\_76 | ( line {lineNum} ) - Duplicate Reference Designator '{refdes}' |
|  | |  |
| **E4377** | EBDMDL\_ERR\_77 | ( line {lineNum} ) - No Reference Designator name found |
|  | |  |
| **E4378** | EBDMDL\_ERR\_78 | ( line {lineNum} ) - File name '{fileName}' too long. Will be truncated |
|  | |  |
| **E4379** | EBDMDL\_ERR\_79 | ( line {lineNum} ) - No file name found |
|  | |  |
| **E4380** | EBDMDL\_ERR\_80 | ( line {lineNum} ) - Component name '{compName}' too long. Will be truncated |
|  | |  |
| **E4381** | EBDMDL\_ERR\_81 | Reference Designator '{refdes}' refers to the Component '{compName}' itself being defined |
|  | |  |
| **E4382** | EBDMDL\_ERR\_82 | ( line {lineNum} ) - Unknown data after component name |
|  | |  |
| **E4383** | EBDMDL\_ERR\_83 | ( line {lineNum} ) - No Component name found |
|  | |  |
| **E4384** | EBDMDL\_ERR\_84 | ( line {lineNum} ) - Invalid file name '{fileName}'. It has no extension |
|  | |  |
| **E4385** | EBDMDL\_ERR\_85 | ( line {lineNum} ) - Unknown file extension'{extension}'. Should be '.ibs' or '.ebd' |
|  | |  |
| **E4386** | EBDMDL\_ERR\_86 | ( line {lineNum} ) - File\_name '{fileName}' contains an upper case character '{character}'. |
|  | |  |
| **E4387** | EBDMDL\_ERR\_87 | File\_name '{fileName}' contains a character '{character}' that is illegal for DOS. |
|  | |  |
| **E4388** | EBDMDL\_ERR\_88 | ( line {lineNum} ) - File\_name '{fileName}' contains more than one period. |
|  | |  |
| **E4389** | EBDMDL\_ERR\_89 | Pin '{pin}' not found on Component '{compName}' in file '{fileName}' |
|  | |  |
| **E4390** | EBDMDL\_ERR\_90 | Component '{component}' not found in file '{fileName}' |
|  | |  |
| **E4391** | EBDMDL\_ERR\_91 | Unable to allocate PINREF. |
|  | | *The code failed to allocate the required memory* |
| **E4392** | EBDMDL\_ERR\_92 | Unable to allocate FILEREF. |
|  | | *The code failed to allocate the required memory* |
| **E4393** | EBDMDL\_ERR\_93 | Length of Pin '{pin}' referenced for Component '{compName}' is too long |
|  | |  |
| **E4394** | EBDMDL\_ERR\_94 | Ebd file '{ebdFilename}' recursively references the component {compName} in the calling Ebd file '{calledFilename}' |
|  | |  |

## Message Codes 4500 to 4999

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **B4500** | DLY\_ERR\_0 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to missing values* |
| **E4501** | DLY\_ERR\_1 | ( line {lineNum} ) - No {Rise|Fall\_on|off\_dly} Value Was Provided for {subparam} |
|  | |  |
| **E4502** | DLY\_ERR\_2 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **B4503** | DLY\_ERR\_3 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E4504** | DLY\_ERR\_4 | ( line {lineNum} ) - At least two delays must be specified |
|  | | *At least two numeric delays should be specified in a data line in a [Driver Schedule] section* |
| **E4505** | DLY\_ERR\_5 | ( line {lineNum} ) - {delayname1} and {delayname2} cannot be specified together |
|  | | *delay and delay cannot be specified together in a data line in a [Driver Schedule] section (Rise\_on\_dly with Fall\_off\_dly and Rise\_off\_dly with Fall\_on\_dly)* |
| **E4506** | DLY\_ERR\_6 | ( line {lineNum} ) - {delayname} is less than zero |
|  | | *The delay is less than 0 in a [Driver Schedule] section* |
| **E4507** | DLY\_ERR\_7 | ( line {lineNum} ) - [Driver Schedule] requires {delayname1} < or > {delayname2} |
|  | | *Delay (Rise\_on\_dly) should not be equal to Delay (Rise\_off\_dly)* |
| **E4508** | DLY\_ERR\_8 | ( line {lineNum} ) - [Driver Schedule] requires {delayname1} < or > {delayname2} |
|  | | *Delay (Fall\_on\_dly) should not be equal to Delay (Fall\_off\_dly)* |
| **E4509** | DLY\_ERR\_9 | ( line {"lineNum} ) - [Driver Schedule] requires ({""Rise\_on\_dly""} < {""Rise\_off\_dly""} AND {""Fall\_on\_dly""} > {""Fall\_off\_dly""}) OR ({""Rise\_on\_dly""} > {""Rise\_off\_dly""} and {""Fall\_on\_dly""} < {""Fall\_off\_dly"""}) |
|  | | *(Rise\_on\_dly should be less than Rise\_off\_dly and Fall\_on\_dly should be greater than Fall\_off\_dly) OR (Rise\_on\_dly should be greater than Rise\_off\_dly and Fall\_on\_dly should be less than Fall\_off\_dly)* |
| **E4600** | ALGMOD\_ERR\_0 | Expected a branch but found '{child}' as a leaf of '{parent}' |
|  | | *[UNUSED}* |
| **E4601** | ALGMOD\_ERR\_1 | ( line {lineNum} ) - Algorithmic Model: Already Defined for this model |
|  | | *An [Algorithmic Model] section should be defined at most once for a model* |
| **B4602** | ALGMOD\_ERR\_2 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B4603** | ALGMOD\_ERR\_3 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B4604** | ALGMOD\_ERR\_4 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E4605** | ALGMOD\_ERR\_5 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E4606** | ALGMOD\_ERR\_6 | The Number of Bits should be 32 or 64 for Platform {platform} and Compiler {compiler} for Algorithmic Model defined on line {lineNum} |
|  | | *On the \_\_bits line for the [Algorithmic Model] section defined on the bits should be 32 or 64* |
| **E4607** | ALGMOD\_ERR\_7 | Duplicate Sub-Parameter: Platform {platform} Compiler {compiler} Bits {bits} for Algorithmic Model defined on line {lineNum} |
|  | | *A duplicate \_\_ line for the [Algorithmic Model] defined on line has been found* |
| **B4608** | ALGMOD\_ERR\_8 | Unable to Parse {subparam}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E4609** | ALGMOD\_ERR\_9 | ( line {lineNum} ) - Unknown Line in Algorithmic Model |
|  | | *A line was found in the [Algorithmic Model] section wich was not a valid line* |
| **E4610** | ALGMOD\_ERR\_10 | ( line {lineNum} ) - Could not parse Platform,Compiler,Bits for [Algorithmic Model] Executable Sub-parameter |
|  | | *There was an error parsing the Platform\_Compiler\_Bits line* |
| **E4611** | ALGMOD\_ERR\_11 | "( line {lineNum} ) - ""Platform name too long {platform}""" |
|  | | *The string is longer than 44 characters* |
| **E4612** | ALGMOD\_ERR\_12 | "( line {lineNum} ) - ""Compiler name too long {compiler}""" |
|  | | *The string is longer than 44 characters* |
| **E4613** | ALGMOD\_ERR\_13 | "( line {lineNum} ) - ""Could not parse the Bits in {platform\_bits\_compiler} for [Algorithmic Model] Executable Sub-parameter""" |
|  | | *Expected an integer for the number of bits in string* |
| **E4614** | ALGMOD\_ERR\_14 | Filename too long {fileName} |
|  | | *The File\_name subparameter string is longer than 44 characters* |
| **E4615** | ALGMOD\_ERR\_15 | Empty [Algorithmic Model] defined for Model {modelName} |
|  | | *There was no data defined in an [Algorithmic Model] section for model* |
| **E4616** | ALGMOD\_ERR\_16 | Code file {fileName} not found. It was defined in [Algorithmic Model] for Model {modelName} |
|  | | *The code file associated with the[Algorithmic Model] section of model was not found* |
| **E4617** | ALGMOD\_ERR\_17 | AMI Parameter file {fileName} should have '.ami' extension. |
|  | | *The Parameter file for the [Algorithmic Model] section defined for model should have an '.ami' extension* |
| **E4618** | ALGMOD\_ERR\_18 | AMI parameter file {fileName} not found. It was defined in [Algorithmic Model] for Model {modelName} |
|  | | *The parameter file associated with the[Algorithmic Model] section of model was not found* |
| **E4619** | ALGMOD\_ERR\_19 | The Parameter file has mismatched parenthesis |
|  | | *The number of open parenthesis '(' should be equal to the number of close parenthesis ')'* |
| **E4620** | ALGMOD\_ERR\_20 | The AMI parameter file should start with a parenthesis |
|  | | *The first character in a parameter file should be an open parenthesis '('* |
| **B4621** | ALGMOD\_ERR\_21 | Internal error while parsing Parameter file |
|  | | *There is a bug in the code which parses AMI parameter file* |
| **E4622** | ALGMOD\_ERR\_22 | No Reserved\_Parameters found |
|  | | *No (Reserved\_Parameters) section was found* |
| **E4623** | ALGMOD\_ERR\_23 | Unknown branch {badSection} found |
|  | | *An unknown section was found* |
| **E4624** | ALGMOD\_ERR\_24 | Unknown parameter {paramName} found as a child of {section} |
|  | | *An unknown parameter was found in section* |
| **E4625** | ALGMOD\_ERR\_25 | {paramName} parameter is mandatory |
|  | | *Parameter is mandatory* |
| **E4626** | ALGMOD\_ERR\_26 | {subparam}: Illegal format for {paramName} |
|  | | *The format of (Usage; Default; Type) of parameter is incorrect* |
| **E4627** | ALGMOD\_ERR\_27 | Illegal {subparam} value {badValue} specified for {paramName} |
|  | | *The value of (Usage; Default;Type) of parameter is illegal* |
| **E4628** | ALGMOD\_ERR\_28 | Found a branch {branchName} expecting a leaf for {paramName} |
|  | | *A list was expected for param but a branch was found instead* |
| **E4629** | ALGMOD\_ERR\_29 | Unexpected parameter {subparam} specified for {paramName} |
|  | | *[UNUSED}* |
| **E4630** | ALGMOD\_ERR\_30 | {subparam} is mandatory for {paramName} |
|  | | *(Usage; Type or Default) is mandatory for parameter* |
| **U4631** | ALGMOD\_ERR\_31 | {subparam1} or {subparam2} should be specified for Parameter {keyword} |
|  | | *[UNUSED}* |
| **E4632** | ALGMOD\_ERR\_32 | {subparam}: Illegal Format for {paramName}. Expected {expected} number(s) |
|  | | *The values for of parameter are incorrect. number of numeric values were expected* |
| **E4633** | ALGMOD\_ERR\_33 | {subparam}: Illegal Format for {paramName}. Expected {expected} integer(s) |
|  | | *[UNUSED}* |
| **E4634** | ALGMOD\_ERR\_34 | Invalid syntax of branch or leaf. At least 2 elements expected in a list |
|  | | *Any list should have at least 2 elements* |
| **E4635** | ALGMOD\_ERR\_35 | Too few nodes in branches or leaves |
|  | | *There was a syntax error during parsing* |
| **E4636** | ALGMOD\_ERR\_36 | Algorithmic Model is not allowed for model {modelName} which is of type {modelType} |
|  | | *Model is of type which is either Terminator; Series or Series\_switch for which Algorithmic Model cannot be defined* |
| **E4637** | ALGMOD\_ERR\_37 | AMI\_Version should be the first parameter under Reserved\_Parameters |
|  | | *If AMI\_Version is specified; it should be the first parameter defined under the Reserved\_Parameters sectioon* |
| **E4638** | ALGMOD\_ERR\_38 | AMI\_Version {amiVersion} is not valid |
|  | | *An invalid AMI Version was specified* |
| **E4639** | ALGMOD\_ERR\_39 | {paramName}: Both Format/Value and Default cannot be specified |
|  | | *For AMI parameter a Format of type Value and a Default were specified* |
| **E4640** | ALGMOD\_ERR\_40 | {paramName}: {subparam} defined multiple times |
|  | | *For AMI parameter the sub parameter was defined multiple times* |
| **E4641** | ALGMOD\_ERR\_41 | {paramName}: Either Format/Value or Default should be specified |
|  | | *For AMI Parameter either a Format of type Value or a Default value must be specified* |
| **E4642** | ALGMOD\_ERR\_42 | {paramName}: defined multiple times |
|  | | *The AMI parameter was defined multiple times* |
| **E4643** | ALGMOD\_ERR\_43 | Reserved\_Parameters should precede Model\_Specific |
|  | | *The Reserved\_Parameters section should be defined before the Model\_Specific section in an AMI file* |
| **E4644** | ALGMOD\_ERR\_44 | {paramName}: Unexpected leaf {leafName} found |
|  | | *An unexpected leaf was found under AMI parameter* |
| **E4645** | ALGMOD\_ERR\_45 | Illegal format for {format} for param {paramName}. Expected {count} {type} |
|  | | *The Format specified for parameter was found to be invalid. A total of tokens of type were expected.* |
| **E4646** | ALGMOD\_ERR\_46 | Use\_Init\_Output is only allowed for AMI version 5.0 |
|  | | *The Use\_Init\_Output section is not allowed for AMI Versions greater than 5.0* |
| **E4647** | ALGMOD\_ERR\_47 | {paramName} defined multiple times in Reserved\_Parameters |
|  | | *The parameter was defined multiple times under Reserved\_Parameters section* |
| **E4648** | ALGMOD\_ERR\_48 | {paramName}: The {format} value {value} for Type {type} is invalid |
|  | | *A generic message which indicates that for AMI Parameter for Format subparam the value specified for Type is invalid* |
| **E4649** | ALGMOD\_ERR\_49 | {subparam} is not allowed for {paramName} |
|  | | *A generic message which indicates that the subparameter cannot be specified for AMI Parameter* |
| **E4650** | ALGMOD\_ERR\_50 | {paramName}: {subparam1} cannot be specified when {subparam2} is specified |
|  | | *A generic message which indicates that for AMI Parameter ; the subparameter cannot be used in conjunction with subparameter* |
| **E4651** | ALGMOD\_ERR\_51 | {paramName}: The number of {tableFeature1} {count1} does not match the number of {tableFeature2} {count2} in Table |
|  | | *A generic message which indicates that for AMI Parameter of Format Table; table feature has a count which does not match the count of table feature ; ie; number of lables; number of columns; number of types are mismatched* |
| **E4652** | ALGMOD\_ERR\_52 | Illegal format for Labels in Format Table for param {paramName}. Expected a string |
|  | | *The Labels in Table definition for parameter were not found to be strings* |
| **E4653** | ALGMOD\_ERR\_53 | Labels should be defined before data rows in Format Table for param {paramName}. |
|  | | *The Lables in Table definition for parameter were not defined before the rows of the table* |
| **E4654** | ALGMOD\_ERR\_54 | {paramName}: Format Table should contain at least one row |
|  | | *The Table definition for parameter did not have any rows defined* |
| **E4655** | ALGMOD\_ERR\_55 | {paramName}: Format Table does not have same number of entries in all rows |
|  | | *The Table definition for parameter contains rows with different number of columns* |
| **E4656** | ALGMOD\_ERR\_56 | {paramName}: Format Table cannot contain a branch |
|  | | *The Table definition for parameter was found to contain a non leaf* |
| **E4657** | ALGMOD\_ERR\_57 | {paramName}: Format {format} typ value ({typValue}) is not in between min value ({minValue}) and max value ({maxValue}) |
|  | | *[UNUSED}* |
| **E4658** | ALGMOD\_ERR\_58 | {paramName}: Format {format} min value ({minValue}) should be less than or equal to max value ({maxValue}) |
|  | | *[UNUSED}* |
| **E4659** | ALGMOD\_ERR\_59 | {paramName}: Format {format} {formatPart} ({value}) cannot be negative |
|  | | *[UNUSED}* |
| **E4660** | ALGMOD\_ERR\_60 | {paramName}: Default value ({default}) is not in between Format {format} min value ({minValue}) and max value ({maxValue}) |
|  | | *[UNUSED}* |
| **E4661** | ALGMOD\_ERR\_61 | {paramName}: Default value ({default}) does not match Format Corner typ value ({typValue}) or min value ({minValue}) or max value ({maxValue}) |
|  | | *[UNUSED}* |
| **E4662** | ALGMOD\_ERR\_62 | {paramName}: Default value ({default}) is not in Format List |
|  | | *For Format List for parameter ; the Default value must match one of the values defined in the list* |
| **E4663** | ALGMOD\_ERR\_63 | {paramName}: Table Format requires (Type Float) or (Type UI) or (Type Integer Float Float) or (Type Integer UI Float) |
|  | | *For parameter ; for Format Table; the Type sub parameter can only be (Type Float) or (Type UI) or (Type Integer Float Float) or (Type Integer UI Float)* |
| **E4664** | ALGMOD\_ERR\_64 | Error Parsing ami file. An invalid token was found when a Leaf Node was expected |
|  | | *A token was found when a Leaf node was expected during parsing* |
| **E4665** | ALGMOD\_ERR\_65 | {paramName}: Invalid parameter name. Type Tap requires Parameter name to be a signed integer |
|  | | *The Parameter Name associated with type Tap should be a signed integer string* |
| **E4666** | ALGMOD\_ERR\_66 | {paramName}: Duplicate sub-branch {branchName} found |
|  | | *ALGMOD\_ERR\_66* |
| **W4667** | ALGMOD\_ERR\_67 | {paramName}: A branch name cannot be the same as a sub-branch name |
|  | | *[UNUSED}* |
| **E4668** | ALGMOD\_ERR\_68 | An unexpected token found around: {text} |
|  | | *There was a syntax error during parsing near string* |
| **E4669** | ALGMOD\_ERR\_69 | Parameter '{paramname}' is not supported in AMI\_Version {version} |
|  | | *The Parameter is not specified in AMI files with version* |
| **E4670** | ALGMOD\_ERR\_70 | Parameter '{paramname}': The number of values in ListTip ({listtipnum}) does not match the number of values in List ({listnum}) |
|  | | *The Parameter is of Format List but the number of entries in the List does not match the number of entries in the associated ListTip* |
| **E4671** | ALGMOD\_ERR\_71 | Parameter '{paramname}': Duplicate value '{listipval}' found in ListTip but the corresponding values in List ('{listval1}', '{listval2}') are not the same |
|  | | *The Parameter is of Format List but there are two entries and which have the same associated ListTip value* |
| **E4672** | ALGMOD\_ERR\_72 | Parameter Repeater\_Type {formatordefault} can only have values 'Redriver' or 'Retimer' |
|  | | *The (Format or Default) value associated with AMI Parameter Repeater\_Type can only be 'Redriver' or 'Retimer'* |
| **E4673** | ALGMOD\_ERR\_73 | Parameter GetWaveExists should be true when a Repeater\_Type Retimer is specified |
|  | | *If an AMI parameter Repeater\_Type with value Retimer is specified in a parameter file; then the GetWaveExists parameter in the same file should have a value of True* |
| **E4674** | ALGMOD\_ERR\_74 | Parameter '{paramname}' value '{paramvalue}' contains back slashes '\\' |
|  | | *The parameter (DLL\_Path or Supporting\_Files) has a value which contains a backslash '\' character* |
| **E4675** | ALGMOD\_ERR\_75 | Parameter '{paramname}' value '{paramvalue}' ends with a slash '/' |
|  | | *The parameter (DLL\_Path or Supporting\_Files) has a value which ends with a slash '/' character* |
| **E4676** | ALGMOD\_ERR\_76 | Parameter '{paramname}' value '{paramvalue}' is invalid |
|  | | *The parameter has an invalid value* |
| **E4677** | ALGMOD\_ERR\_77 | Parameter '{paramname}' row has more than 1 value: '{noofvalues}' |
|  | | *The number of values in the table associated with parameter (Supporting Files) is more than 1 on some row (there should be one value on each row)* |
| **E4678** | ALGMOD\_ERR\_78 | "Parameter '{paramname}' value cannot be dot '"".""'" |
|  | | *"The parameter (Supporting\_Files) cannot have a value which is just a string containing a dot (""."")"* |
| **E4679** | ALGMOD\_ERR\_79 | Parameter '{paramname}' path '{paramvalue}' not found |
|  | | *The parameter (Supporting\_Files) specifies a path to a file which does not exist* |
| **E4680** | ALGMOD\_ERR\_80 | Parameter '{paramname}' ListTip value is not string '{listipval}' |
|  | | *The parameter has an associated ListTip which has a non string value* |
| **E4681** | ALGMOD\_ERR\_81 | "Parameter '{paramname}' ListTip value is invalid '""""'" |
|  | | *The parameter has ListTip specified in which one of the values is the empty (null) string* |
| **E4682** | ALGMOD\_ERR\_82 | Missing Root Name |
|  | | *[UNUSED}* |
| **E4683** | ALGMOD\_ERR\_83 | Referenced parameter '{parmname}' not found in file '{fileName}'. {subparam} '{subparamname}' Ignored. |
|  | | *[UNUSED}* |
| **E4684** | ALGMOD\_ERR\_84 | No Reserved\_Parameters or Model\_Specific branches found |
|  | | *[UNUSED}* |
| **E4685** | ALGMOD\_ERR\_85 | Reserved\_Parameters branch is not allowed for non AMI parameter files |
|  | | *[UNUSED}* |
| **E4686** | ALGMOD\_ERR\_86 | {paramname}: Usage should be Info or In for parameters in AMI files. ({subparam} '{subparamname}') |
|  | | *[UNUSED}* |
| **E4687** | ALGMOD\_ERR\_87 | {paramname}: Usage should be Info for parameters in non-AMI files. ({subparam} '{subparamname}') |
|  | | *[UNUSED}* |
| **E4688** | ALGMOD\_ERR\_88 | {paramname}: cannot be of Format Table, Guassian, Dual-Dirac, DjRj. ({subparam} '{subparamname}') |
|  | | *[UNUSED}* |
| **E4689** | ALGMOD\_ERR\_89 | [Algorithmic Model] Sub parameter {subparam} is not allowed for model {modelname} which is of type {modeltype} |
|  | | *Modle of type cannot use the subparam (Executable; Executable\_Rx; Executable\_Tx)* |
| **E4690** | ALGMOD\_ERR\_90 | Reserved Parameter {paramname} is '{input|output} only' and may not be used since another '{output|input} only' Reserved Parameter has already been used earlier in this file |
|  | | *The Parameter is of type (Rx; Tx) but the parameter file has already been found to have an oppsite input out type* |
| **E4691** | ALGMOD\_ERR\_91 | Sub parameter {subparam} is associated with a parameter file {paramfile} which was found to have a direction '{input|output}-only' |
|  | | *The (Executable\_Rx) has to be associated with a parameter file of type and the (Executable\_Tx) has to be associated with a parameter file of type* |
| **E4692** | ALGMOD\_ERR\_92 | {paramname}: Illegal {type} value {value} specified in {subparam} |
|  | | *The value of type specified for subparam of parameter is invalid* |
| **E4693** | ALGMOD\_ERR\_93 | ({paramtype} '{paramname}'): Usage cannot be Dep for referenced parameter '{filename}' in AMI file when the file is not referenced in the [Algorithmic Model] section of the containing Model |
|  | | *The referenced parameter (Parameter; Converter Parameter) has a Usage Dep in Parameter file but is not referenced from within an [Algorithmic Model] section of a model* |
| **E4694** | ALGMOD\_ERR\_94 | ({paramtype} '{paramname}'): Usage cannot be Dep for referenced parameter'{filename}' in AMI file when the file does not have a Resolve\_Exists parameter with value True |
|  | | *The referenced parameter (Parameter; Converter Parameter) has a Usage Dep in Parameter file but the file does not have Resolve Exists parameter with a value True* |
| **E4695** | ALGMOD\_ERR\_95 | A branch name cannot be empty |
|  | | *Every branchname in a parameter file should be a non empty string* |
| **E4696** | ALGMOD\_ERR\_96 | {paramname} is only allowed in IBIS Version 6.1 or greater |
|  | | *Parameter is only allowed for IBIS versions greater than equal to 6.1* |
| **E4697** | ALGMOD\_ERR\_97 | PAM4\_UpperThreshold and PAM4\_LowerThreshold must be specified when Modulation is PAM4 |
|  | | *PAM4\_UpperThreshold and PAM4\_LowerThreshold must be specified when Modulation is PAM4 and the parameter file is of type Rx\_only* |
| **W4698** | ALGMOD\_ERR\_98 | {value1} should be less than {value2} |
|  | | *value1 (PAM4\_CenterThreshold) should be less than value2(PAM4\_UpperThreshold) and value1(PAM4\_LowerThreshold) should be less than value2(PAM4\_CenterThreshold)* |
| **E4699** | ALGMOD\_ERR\_99 | Model {modelname} of type {modeltype} is associated with a parameter file {filename} which was found to have a direction '{direction}-only' |
|  | | *Model is of type but is associated with a Parameter file which was found to have direction (Rx; Tx)* |
| **E4700** | ALGMOD\_ERR\_100 | Model {modelname} of type {modeltype} is a receiver associated with parameter file {filename} which has Modulation PAM4 defined but PAM4\_UpperThreshold and PAM4\_LowerThreshold are not specified |
|  | | *Model of type is a Receiver and is associated with a Parameter file which defines a PAM4 Modulation but does not define PAM4\_UpperThreshold and PAM4\_LowerThreshold* |
| **E4750** | CMPNTEMI\_ERR\_0 | " " |
|  | | *[UNUSED}* |
| **E4751** | CMPNTEMI\_ERR\_1 | ( line {lineNum} ) - {name} Already Defined For EMI Component |
|  | | *CMPNTEMI\_ERR\_1* |
| **B4752** | CMPNTEMI\_ERR\_2 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E4753** | CMPNTEMI\_ERR\_3 | ( line {lineNum} ) - [Emi Component] is already defined for this Component |
|  | | *A [Begin EMI Component] section can be defined at most once in a component* |
| **E4754** | CMPNTEMI\_ERR\_4 | ( line {lineNum} ) - Unexpected data '{text}' found after the Keyword |
|  | | *Some extraneous data was specified after the [Begin EMI Component] keyword where none was expected.* |
| **E4755** | CMPNTEMI\_ERR\_5 | ( line {lineNum} ) - Orphan keyword line. |
|  | | *A [Begin EMI Component] keyword was found where it was not expected* |
| **E4756** | CMPNTEMI\_ERR\_6 | ( line {lineNum} ) - Orphan data line |
|  | | *A data line identified as belonging to a [Begin EMI Component] section was found outside of such a section* |
| **B4757** | CMPNTEMI\_ERR\_7 | {sourceFile}:{sourceLinenum}:Illegal keyword passed to EMI Component. |
|  | | *Program data structures are corrupt in program file* |
| **B4758** | CMPNTEMI\_ERR\_8 | {sourceFile}:{sourceLinenum}:Data for End EMI Component. |
|  | | *Program data structures are corrupt in program file* |
| **B4759** | CMPNTEMI\_ERR\_9 | {sourceFile}:{sourceLinenum}:Unknown keyword received data. |
|  | | *Program data structures are corrupt in program file* |
| **B4760** | CMPNTEMI\_ERR\_10 | {sourceFile}:{sourceLinenum}:Illegal line type passed to EMI Component. |
|  | | *Program data structures are corrupt in program file* |
| **E4761** | CMPNTEMI\_ERR\_11 | ( line {lineNum} ) - [End EMI Component] expected |
|  | | *A [Begin EMI Component] section should be terminated by a n [End EMI Component] keyword* |
| **W4762** | CMPNTEMI\_ERR\_12 | ( line {lineNum} ) - Empty Emi Component block found |
|  | | *A [Begin EMI Component] was terminated with an [End EMI Component] keyword with no intervening data* |
| **E4763** | CMPNTEMI\_ERR\_13 | ( line {lineNum} ) - Unable to create new EMI Component. |
|  | | *Memory allocation failed when trying to parse a [Begin EMI Component]* |
| **E4764** | CMPNTEMI\_ERR\_14 | ( line {lineNum} ) - C\_Heatsink\_gnd cannot be specified since C\_Heatsink\_float is already specified |
|  | | *A heat sink can be either floating or grounded* |
| **E4765** | CMPNTEMI\_ERR\_15 | ( line {lineNum} ) - C\_Heatsink\_float cannot be specified since C\_Heatsink\_gnd is already specified |
|  | | *A heat sink can be either floating or grounded* |
| **E4766** | CMPNTEMI\_ERR\_16 | ( line {lineNum} ) - Unknown Line after [Begin EMI Component] |
|  | | *A line was found in the [Begin EMI Component] section wich was not a valid line* |
| **B4767** | CMPNTEMI\_ERR\_17 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **E4768** | CMPNTEMI\_ERR\_18 | ( line {lineNum} ) - '{paramName}' Subparameter Missing Setting |
|  | | *The sub parameter has no associated value specified* |
| **E4769** | CMPNTEMI\_ERR\_19 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **E4770** | CMPNTEMI\_ERR\_20 | "( line {lineNum} ) - Invalid {subparam/keyword} (\{badValue}\"") (try \""{options}\"")""" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E4771** | CMPNTEMI\_ERR\_21 | "( line {lineNum} ) - Invalid {paramName} (\{paramValue}\"")""" |
|  | | *The sub parameter has an invalid value specified* |
| **B4772** | CMPNTEMI\_ERR\_22 | Could not allocate memory in file {sourceFile} at line {sourceLinenum} |
|  | | *Memory allocation failed* |
| **E4773** | CMPNTEMI\_ERR\_23 | ( line {lineNum} ) - Invalid {paramName} Line |
|  | | *The sub parameter line has an invalid syntax* |
| **E4774** | CMPNTEMI\_ERR\_24 | ( line {lineNum} ) - [Pin Domain EMI]: Already Defined for this EMI Component |
|  | | *The [Pin Domain EMI] section should be defined at most one in a [Begin EMI Component] section* |
| **E4775** | CMPNTEMI\_ERR\_25 | ( line {lineNum} ) - Expected 'percentage' parameter after keyword |
|  | | *A [Pin Domain EMI] keyword should be followed by the the column header 'percentage'* |
| **E4776** | CMPNTEMI\_ERR\_26 | ( line {lineNum} ) - Unknown parameter '{badValue}': Expected 'percentage' |
|  | | *A [Pin Domin EMI] keyword should be followed by the column header 'percentage' but an unexpected column header was found* |
| **E4777** | CMPNTEMI\_ERR\_27 | ( line {lineNum} ) - domain\_name '{domainName}' is redefined |
|  | | *The domain name was defined multiple times in a [Pin Domain EMI] section* |
| **E4778** | CMPNTEMI\_ERR\_28 | ( line {lineNum} ) - Invalid percentage '{badValue}'. {maxLength} |
|  | | *The percentage for a domain\_name was specified using more than characters( where maxLength is 5)* |
| **E4779** | CMPNTEMI\_ERR\_29 | ( line {lineNum} ) - [Pin EMI]: Already defined for this EMI Component. |
|  | | *A [Pin EMI] section should be dfined at most once in a [Begin EMI Component] section* |
| **E4780** | CMPNTEMI\_ERR\_30 | ( line {lineNum} ) - Unable to find column headers after [Pin EMI] keyword. |
|  | | *The [Pin EMI] keyword should be followed by the column headers domain\_name and clock\_div* |
| **E4781** | CMPNTEMI\_ERR\_31 | ( line {lineNum} ) - '{columnHeader}' column header not found or out of order. |
|  | | *The column header was expected on the [Pin EMI] keyword definition line but was not found or found out of order* |
| **E4782** | CMPNTEMI\_ERR\_32 | ( line {lineNum} ) - Unable to add data for [Pin EMI] keyword. |
|  | | *There was an error parsing the data line specified in a [Pin EMI] section* |
| **E4800** | MDLEMI\_ERR\_0 | ( line {lineNum} ) - EMI Model: Already Defined for this model |
|  | | *There can be at most one [Begin EMI Model] section in a model* |
| **E4801** | MDLEMI\_ERR\_1 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected} |
|  | | *The sub parameter should have had items on the keyword line but only number of data items were found* |
| **B4802** | MDLEMI\_ERR\_2 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **B4803** | MDLEMI\_ERR\_3 | Should Not Be Here: {sourceFile},{sourceLinenum} |
|  | | *The code has a bug* |
| **B4804** | MDLEMI\_ERR\_4 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **E4805** | MDLEMI\_ERR\_5 | ( line {lineNum} ) - {paramName} is already specified for the EMI Model |
|  | | *The subparameter has already been defined in a [Begin EMI Model] section* |
| **E4806** | MDLEMI\_ERR\_6 | ( line {lineNum} ) - '{paramName}' Subparameter Missing Setting |
|  | | *The subparameter does not have a value specified* |
| **E4807** | MDLEMI\_ERR\_7 | "( line {lineNum} ) - Invalid {subparam/keyword} (\""{badValue}\"") (try \""{options}\"")" |
|  | | *A generic error message which indicates that a wrong value was specified for a particular . The user must specify from one of the* |
| **E4808** | MDLEMI\_ERR\_8 | "( line {lineNum} ) - Invalid {paramName} (\""{badparamValue}\"")" |
|  | | *The subparameter has an invalid value* |
| **E4900** | PINEMI\_ERR\_0 | ( line {lineNum} ) - Unable to add the line of Pin EMI data |
|  | | *Memory allocation for a Pin EMI data structure failed* |
| **E4901** | PINEMI\_ERR\_1 | ( line {lineNum} ) - pin\_name not found |
|  | | *A data line in the [Pin EMI] section did not have the pin name specified* |
| **E4902** | PINEMI\_ERR\_2 | ( line {lineNum} ) - domain\_name not found |
|  | | *A data line in the [Pin EMI] section did not have the domain name specified* |
| **E4903** | PINEMI\_ERR\_3 | ( line {lineNum} ) - clock\_div not found |
|  | | *A data line in the [Pin EMI] section did not have clock div specified* |
| **E4904** | PINEMI\_ERR\_4 | ( line {lineNum} ) - clock\_div should be at most {maxChars} characters long |
|  | | *The value of clock\_div can be at most 5 characters long* |
| **E4905** | PINEMI\_ERR\_5 | ( line {lineNum} ) - Unexpected data '{text}' after clock\_div |
|  | | *There was some extraneous data found at the end of a data line in the [Pin EMI] section* |
| **E4906** | PINEMI\_ERR\_6 | ( line {lineNum} ) - Duplicate Pin '{pinName}' |
|  | | *The pin is referred to multiple times in a [Pin EMI] section* |
| **B4907** | PINEMI\_ERR\_7 | {sourceFile}:{sourceLinenum}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file* |
| **E4908** | PINEMI\_ERR\_8 | Component '{compName}': domain\_name '{domainName}' found in [Pin Domain EMI] section was not associated with any pin\_name in the [Pin EMI] section |
|  | | *In component ; a domain name was defined in the [Pin Domain EMI] section but was not found to be associated with any pin in the [Pin EMI] section* |
| **E4909** | PINEMI\_ERR\_9 | Component '{compName}': pin\_name '{pinName}' found in [Pin EMI] section was not found in the [Pin] section |
|  | | *The pin referred to in the [Pin EMI] section of Component was not defined in the [Pin] section of the component* |
| **E4910** | PINEMI\_ERR\_10 | ( line {lineNum} ) - Unable to allocate new Pin EMI. |
|  | | *Memory allocation error for a Pin EMI failed while trying to parse the [Pin EMI] section* |
| **E4911** | PINEMI\_ERR\_11 | ( line {lineNum} ) - Component '{compName}': Pin '{pinName}' is of model '{modelName}' and cannot be referened in a [Pin EMI] section |
|  | | *"The pin referred to in the [Pin EMI] section of component has a model type of ""GND""; ""NC""; ""POWER""; ""CIRCUITCALL"" or ""NA"" and hence cannot be referenced in a [Pin EMI] section"* |

## Message Codes 5000 to 5499

|  |  |  |
| --- | --- | --- |
| **Code** | **Symbol** | **Message/Comments** |
| **E5000** | CCORNER\_ERR\_0 | ( line {lineNum} ) - [C Comp Corner] Already defined for this model |
|  | | *A [C Comp Corner] section can only be defined once in a Model* |
| **B5001** | CCORNER\_ERR\_1 | Unable to Allocate Memory: {sourceFile} {sourceLinenum} |
|  | | *The code failed to allocate memory* |
| **B5002** | CCORNER\_ERR\_2 | Should Not Be Here: {sourceFile}, {sourceLinenum} |
|  | | *The code has a bug* |
| **B5003** | CCORNER\_ERR\_3 | Unable to Parse {text}: {sourceFile} {sourceLinenum} |
|  | | *A generic error message which indicates that a parsing error related to* |
| **E5004** | CCORNER\_ERR\_4 | ( line {lineNum} ) - Incorrect Number of Line Items ({numberOfItemsFound}) For {keyword}: Expecting {numberOfItemsExpected} |
|  | | *The keyword should have had items on the keyword line but only number of data items were found* |
| **E5005** | CCORNER\_ERR\_5 | ( line {lineNum} ) - Unknown line found among [C Comp Corner] data |
|  | | *A line was found in the [C Comp Corner] section wich was not a valid line* |
| **E5006** | CCORNER\_ERR\_6 | ( line {lineNum} ) - [C Comp Corner] parameter {paramName} is already defined |
|  | | *The subparameter occurs more than once in a [C Comp Corner] section* |
| **E5007** | CCORNER\_ERR\_7 | ( line {lineNum} ) - Typ value cannot be NA |
|  | | *The typical value in a Range cannot be NA* |
| **W5008** | CCORNER\_ERR\_8 | ( line {lineNum} ) - {paramName}: Min value is not the smallest value listed |
|  | | *[UNUSED}* |
| **W5009** | CCORNER\_ERR\_9 | ( line {lineNum} ) - {paramName}: Max value is not the largest value listed |
|  | | *[UNUSED}* |
| **E5010** | CCORNER\_ERR\_10 | Model {modelName}: Empty [C Comp Corner] section |
|  | | *There were no data lines in a [C Comp Corner] section for model* |
| **W5011** | CCORNER\_ERR\_11 | Model {modelName}: [C Comp Corner] C\_comp should not be specified when C\_comp\_pullup, C\_comp\_pulldown, C\_comp\_power\_clamp or C\_comp\_gnd\_clamp is specified |
|  | | *In model C\_comp subparameter was sepcified in a [C Comp Corner] section even though the other sub parameters were also specified* |
| **E5012** | CCORNER\_ERR\_12 | ( line {lineNum} ) - [C Comp Corner] parameter {paramName}: {Typ|Min|Max} value cannot be negative |
|  | | *The Corner value for sub parameter in a [C Comp Corner] section was less than 0* |
| **E5100** | REPPIN\_ERR\_0 | ( line {lineNum} ) - Unable to alloc REPPIN. |
|  | | *The code failed to allocate memory* |
| **E5101** | REPPIN\_ERR\_1 | ( line {lineNum} ) - Too many Repeater Pin data columns. |
|  | | *Extraneous data was found while parsing a [Repeater\_Pin] data line* |
| **E5102** | REPPIN\_ERR\_2 | ( line {lineNum} ) - No Repeater\_Pin column entry. |
|  | | *The pin column was missing while parsing a [Repeater\_Pin] data line* |
| **E5103** | REPPIN\_ERR\_3 | ( line {lineNum} ) - No Repeater tx\_non\_inv\_pin column entry. |
|  | | *The tx\_non\_inv\_pin column was missing while parsing a [Repeater\_Pin] data line* |
| **E5104** | REPPIN\_ERR\_4 | ( line {lineNum} ) - Repeater\_Pin column pin same as tx\_non\_inv\_pin column pin. |
|  | | *The pin specified cannot be the same as the tx\_non\_inv\_pin specified on a [Repeater\_Pin] data line* |
| **E5105** | REPPIN\_ERR\_5 | Component '{componentname}': Repeater\_Pin '{pinname}' not previously declared in Pin section. |
|  | | *The pin specified in a [Repeater Pin] section was not defined in the [Pin] section of Component* |
| **E5106** | REPPIN\_ERR\_6; | Component '{componentname}': Repeater tx\_non\_inv\_pin '{noninvpinname}' not previously declared in Pin section. |
|  | | *The tx\_non\_inv\_pin specified in a [Repeater Pin] section was not defined in the [Pin] section of Component* |
| **W5107** | REPPIN\_ERR\_7 | Component '{componentname}': Repeater\_Pin '{pinname}' is not unique. |
|  | | *The same pin is referenced more than once in the [Repeater Pin] section of Component* |
| **E5108** | REPPIN\_ERR\_8 | Component '{componentname}': Repeater tx\_non\_inv\_pin '{noninvpinname}' already in use as a Repeater\_pin. |
|  | | *The tx\_non\_inv\_pin was previously defined as a pin in the [Repeater Pin] section of Component* |
| **E5109** | REPPIN\_ERR\_9 | Component '{componentname}': Repeater\_pin '{pinname}' already in use as an tx\_non\_inv\_pin. |
|  | | *The pin was previously defined as a tx\_non\_inv\_pin in the [Repeater Pin] section of Component* |
| **E5110** | REPPIN\_ERR\_10 | Component '{componentname}': Repeater tx\_non\_inv\_pin '{noninvpinname}' is not unique. |
|  | | *The same tx\_non\_inv\_pin is referenced more than once in the [Repeater Pin] section of Component* |
| **E5111** | REPPIN\_ERR\_11 | Component '{componentname}': Repeater\_Pin '{pinname}' is not previously declared in Diff Pin section. |
|  | | *The pin specified in a [Repeater Pin] section of component is not defined in the [Diff Pin] section of the component.* |
| **E5112** | REPPIN\_ERR\_12 | Component '{componentname}': Repeater tx\_non\_inv\_pin '{noninvpinname}' is not previously declared in Diff Pin section. |
|  | | *The tx\_non\_inv\_pin specified in a [Repeater Pin] section of component is not defined in the [Diff Pin] section of the component.* |
| **E5113** | REPPIN\_ERR\_13 | Component '{componentname}': Repeater\_Pin '{pinname}' is not associated with a model which is of type Input or Input\_Diff |
|  | | *The pin specified in a [Repeater Pin] section of component is associated with a model which is not of type Input or Input\_Diff* |
| **E5114** | REPPIN\_ERR\_14 | Component '{componentname}': Repeater tx\_non\_inv\_pin '{noninvpinname}' is not associated with a model which is of type Output or Ouptut\_Diff |
|  | | *The tx\_non\_inv\_pin specified in a [Repeater Pin] section of component is associated with a model which is not of type Output or Output\_Diff* |
| **B5115** | REPPIN\_ERR\_15 | {fileName}:{linenumber}:Unable to get IBIS? |
|  | | *Program data structures are corrupt in program file at* |
| **E5116** | REPPIN\_ERR\_16 | Component '{componentname}': Repeater\_Pin '{pinname}' is associated with a model '{modelname}' which has no Algorithmic Model |
|  | | *The pin specified in the [Repeater Pin] section of component is associated with a model which has no [Algorithmic Model] defined* |
| **E5117** | REPPIN\_ERR\_17 | Component '{componentname}': Repeater tx\_non\_inv\_pin '{noninvpinname}' is associated with a model '{modelname}' which has no Algorithmic Model |
|  | | *The tx\_non\_inv\_pin specified in the [Repeater Pin] section of component is associated with a model which has no [Algorithmic Model] defined* |
| **E5118** | REPPIN\_ERR\_18 | Component '{componentname}': Repeater\_Pin '{pinname}' is associated with a model '{modelname}' whose AMI Parameter file '{fileName}' does not have a Repeater\_Type defined |
|  | | *The pin specified in the [Repeater Pin] section of component is associated with a model whose [Algortihmic Model] refers to an AMI Parameter file which does not have the parameter Repeater\_Type defined in it* |
| **B5200** | PARAMFILE\_ERR\_0 | {fileName}:{linenumber}:Unable to get IBIS. |
|  | | *[UNUSED}* |
| **B5201** | PARAMFILE\_ERR\_1 | Unable to alloc PFILE. |
|  | | *[UNUSED}* |
| **W5202** | PARAMFILE\_ERR\_2 | Parameter file name {fileName} does not seem to have an extension |
|  | | *[UNUSED}* |
| **E5203** | PARAMFILE\_ERR\_3 | ( line {lineNum} ) - Parameter file name {fileName} invalid. '.ibs', '.ebd' or '.pkg' extensions are not allowed |
|  | | *[UNUSED}* |
| **E5204** | PARAMFILE\_ERR\_4 | ( line {lineNum} ) - Parameter file {fileName} not found. |
|  | | *[UNUSED}* |
| **B5300** | MPINS\_ERR\_0 | Unable to Allocate Memory: {filename} {linenum} |
|  | | *Memory allocation failed in program file at* |
| **E5301** | MPINS\_ERR\_1 | Unable to alloc MPIN |
|  | | *Memory allocation failed* |
| **E5302** | MPINS\_ERR\_2 | Unable to save [Merged Pins] Pin |
|  | | *Parsing of [Merged Pins] failed* |
| **E5303** | MPINS\_ERR\_3 | Unable to parse [Merged Pins] Pin not found |
|  | | *The MergingPin was not defined on the [Merged Pins] line* |
| **E5304** | MPINS\_ERR\_4 | Incorrect Number of Line Items ({numberOfItemsFound}) For {keyName}: Expecting {numberOfItemsExpected} |
|  | | *The should have had items on the keyword line but only were found* |
| **E5305** | MPINS\_ERR\_5 | [Merged Pins] Pin Name {pinName} over {maxLength} characters long |
|  | | *The Pin defined in [Merged Pins] is too long. Should be at most long* |
| **E5307** | MPINS\_ERR\_7 | [Merged Pins] section already defined for Pin {pinName} |
|  | | *A [Merged Pins] section already exists for Pin* |
| **E5308** | MPINS\_ERR\_8 | Pin {mergedPinName} has already been connected to a Merging Pin {mergingPinName} |
|  | | *The merged Pin is already connected to merging Pin* |
| **E5400** | IDLY\_ERR\_0 | [Initial\_Delay] Already defined for this model |
|  | |  |
| **E5401** | IDLY\_ERR\_1 | Unable to Allocate Memory: {filename} {linenum} |
|  | | *Memory allocation failed in program file at* |
| **B5402** | IDLY\_ERR\_2 | Should Not Be Here: {filename}, {linenum} |
|  | | *The code has a bug in file at line* |
| **B5403** | IDLY\_ERR\_3 | Unable to Parse {keyword}: {filename} {linenum} |
|  | | *Could not parse keyword at file at line* |
| **E5404** | IDLY\_ERR\_4 | Incorrect Number of Line Items ({numberOfItemsFound}) For {keyName}: Expecting {numberOfItemsExpected} |
|  | | *The should have had items on the keyword line but only were found* |
| **E5405** | IDLY\_ERR\_5 | Unknown line found among [Initial\_Delay] data |
|  | | *An unrecognized line was found in the [Initial Delay] section* |
| **E5406** | IDLY\_ERR\_6 | [Initial\_Delay] parameter {paramname} is already defined |
|  | | *The [Initial Delay] parameter (V\_T; I\_T) has already been defined* |
| **E5407** | IDLY\_ERR\_7 | Typ value cannot be NA |
|  | | *The typical value in a Range cannot be NA* |
| **E5410** | IDLY\_ERR\_10 | {"""Model""} {modelname}: Empty [Initial\_Delay] section defined on line {linenum"} |
|  | | *An empty [Initial Delay] section was defined for Model on line* |
| **E5411** | IDLY\_ERR\_11 | [Initial\_Delay] parameter {paramname}: {subparam} value cannot be negative |
|  | | *The [Initial Delay] parameter (V\_T; I\_T) has a (Typ; Min; Max) which is negative* |