

IBISCHK8

IBISCHK8 (IBIS Golden Parser) User Guide

Version 8.0.0

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INTRODUCTION

This document describes the usage, functionality, and message codes of the IBISCHK8 Version 8.0.0 source code and its associated executable programs. IBISCHK8 is used to test files for conformance with IBIS (I/O Buffer Information Specification) Version 8.0.

- The IBIS Version 8.0 Specification is available at <https://ibis.org/ver8.0/>.
- The IBISCHK8 executable program is freely available at <https://ibis.org/IBISCHK8/>.
- Checks performed by IBISCHK8 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 8.0 describes formats named IBS, PKG (Define Package Model), EBD (Electrical Board Description), EMD (Electrical Module Description), EMS (Electrical Module Set), IMS (Interconnect Model Set), and AMI (Algorithmic Model Interface). IBISCHK8 parses files with .ibs, .pkg, .ebd, .emd, .ems, .ims, and .ami extensions. The first six file formats are keyword based with keywords enclosed by square brackets. The .ami format is tree-structure based where a parameter hierarchy is delineated by parentheses.

Note that this user guide was first written for IBISCHK6 Version 6.0.0. As the IBIS specification evolves, the IBISCHK executable program and this IBISCHK user guide will evolve and be numbered in parallel with IBISCHK version numbers.

The source code 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 quality assurance (QA) 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 Buffer Issue Resolution Document (BIRD) revision process) and through code corrections (documented with BUG reports). The links to these documents are:

- BIRDs: <https://ibis.org/birds>
- BUGs: <https://ibis.org/bugs/ibischk/>

IBISCHK8 USAGE

When “IBISCHK8_64” (see section 2.3 PLATFORM CONSIDERATIONS) is run with no arguments, it prints this help message:

```
IBISCHK8 V8.0.0

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: IBISCHK8_64      <IBS filename>
      : IBISCHK8_64 -ebd <EBD filename>
      : IBISCHK8_64 -pkg <PKG filename>
      : IBISCHK8_64 -ami <AMI filename>
      : IBISCHK8_64 -ims <IMS filename>
      : IBISCHK8_64 -ems <EMS filename>
      : IBISCHK8_64 -emd <EMD filename>
Usage: IBISCHK8_64 -caution -numbered      <IBS filename>
      : IBISCHK8_64 -caution -numbered -ebd <EBD filename>
      : IBISCHK8_64 -caution -numbered -pkg <PKG filename>
      : IBISCHK8_64 -caution -numbered -ami <AMI filename>
      : IBISCHK8_64 -caution -numbered -ims <IMS filename>
      : IBISCHK8_64 -caution -numbered -ems <EMS filename>
      : IBISCHK8_64 -caution -numbered -emd <EMD 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.

2.1 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 8.0 Specification.
- ebd** Use this option if the file is in Electrical Board Description format, described in section 8 of the IBIS 8.0 Specification.
- ami** Use this option if the file is in Algorithmic Model Interface format, described in section 10.3 of the IBIS 8.0 Specification.
- ims** Use this option if the file is in Interconnect Model Set format, described in section 11 of the IBIS 8.0 Specification.
- emd** Use this option if the file is in Electrical Module Description format, described in section 12 of the IBIS 8.0 Specification.
- ems** Use this option if the file is in EMD Set format, described in section 13 of the IBIS 8.0 Specification.

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

2.2 OUTPUT FLAGS

Printed output messages can be modified using the following flags:

- caution** Additional Caution 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).

2.3 RETURN STATUS

The exit status returned by IBISCHK8 will be one of the following:

- 0 Successful execution.
- 1 A bad program argument or no file argument has been provided.
- 2 The [IBIS Ver] keyword could not be found.
- 3 The value of [IBIS Ver] is not a valid IBIS version number.

Note that IBISCHK8 returns the value 0 even if errors are found in the checked file(s).

2.4 PLATFORM CONSIDERATIONS

IBISCHK8 performs platform-specific checks where executable IBIS-AMI models are present. It will load and check all IBIS-AMI executable files (.dll/.so files) that are suitable for the platform on which IBISCHK8 is currently running, where the platform is defined by operating system and address bit size. IBISCHK8 is downloadable for Windows, Linux, and MacOS operating systems. For each operating system both "IBISCHK8_32" and "IBISCHK8_64" programs are available, for 32-bit and 64-bit addressing.

Complete checking of an IBIS file may require running IBISCHK8 on each operating system and bit size supported by any IBIS-AMI models in an IBIS file. When IBIS-AMI models are present IBISCHK8 prints a platform summary report near the end:

```
... Status of [Algorithmic Model] Executables for Windows 32:
icg_64.dll: Windows 64:      Not Checked
icg_32.dll: Windows 32:      Checked
icg_64.so:  Linux 64:        Not Checked
icg_32.so:  Linux 32:        Not Checked
```

... This IBISCHK8 executable supports Windows 32 bit only

The example above indicates that models for 64-bit Windows, 64-bit Linux, and 32-bit Linux were present, but were not tested because IBISCHK8 was running on 32-bit Windows. To fully check the model, it would be necessary to repeat IBISCHK8 on systems running the other three platforms.

2.5 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 8.0 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 IBISCHK8 program bugs where the message should have been documented as an Error. Suspected program bugs should be reported to info@ibis.org following the instructions documented at: <https://ibis.org/bugs/ibischk/bugform.txt>.

(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 is 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 (as 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 may 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 for cases where they might show up when using earlier versions of IBISCHK.

2.6 MESSAGE LISTING BY CODES

Message Codes along with their Symbols and Messages issued by IBISCHK8 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 IBISCHK8 when the **–numbered** option is used, and the documented problem is encountered.
2. **Symbol** – In the shaded row the message symbol found in the IBISCHK8 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 found 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 IBISCHK8, “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 0050 through 6991, this document contains only 1781 message 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.

All message listings follow in the sections below.

2.6.1 MESSAGE CODES 0 TO 499

Code	Symbol	Message/Comments
E0050	MAIN_ERR_0	Couldn't find Version. Exiting
		The IBIS, EBD or PKG version could not be determined. Possibly empty file.
B0100	MDL_ERR_0	Unable to Allocate Memory: {sourceFile} {sourceLinenum}
		UNUSED: The code failed to allocate memory
B0101	MDL_ERR_1	Unable to get IBIS structure {sourceFile} {sourceLinenum}
		Program data structures are corrupt
E0102	MDL_ERR_2	(line {linenum}) - Model-scoped keyword not found under [Model]
		Model keyword found but not within a Model declaration
E0103	MDL_ERR_3	(line {linenum}) - Illegal Digital Port <{portName}> (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 <{portName}> used as analog port
		Improper use of Reserved Digital port
E0107	MDL_ERR_7	(line {linenum}) - Model-scoped data line not found under [Model].
		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: Improper positioning of [Add Submodel]
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
		Some data other than [End External Model] found
E0124	MDL_ERR_24	(line {linenum}) - Expecting [End External Model]. Invalid Line
		UNUSED: Some data other than [End External Model] found
B0125	MDL_ERR_25	(line {linenum}) - Unable to eat keyword <{keyword}>: {sourceFile} {sourceLinenum}
		Error in parsing keyword
E0126	MDL_ERR_26	Unable to Save Model Name
		UNUSED: The code failed to allocate the required memory
E0127	MDL_ERR_27	'Model' Keyword Missing name
		The name of the model was not specified with the [Model] 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: The model name specified exceeded the max size
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, <{port1}> <{port2}>
		UNUSED: not used
E0133	MDL_ERR_33	(line {linenum}) - Digital Port <{portName}> 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 the specified line
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 subparameter. The user must specify from one of the reserved options.
E0137	MDL_ERR_37	Incorrect Number of Line Items ({linenum}) For {numberOfItemsFound}: Expecting {numberOfItemsExpected}
		The subparameter 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 subparameter
E0140	MDL_ERR_40	(line {linenum}) - Duplicate Max Corner
		The Max corner was specified multiple times in [External Model] Corner subparameter
E0141	MDL_ERR_41	(line {linenum}) - Duplicate Min Corner
		The Min corner was specified multiple times in [External Model] Corner subparameter
E0142	MDL_ERR_42	(line {linenum}) - Wrong number of arguments 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 subparameter should be specified before the D_to_A subparameter
E0145	MDL_ERR_45	(line {linenum}) - D2A only allowed for language = SPICE or language = IBIS-ISS
		The subparameter D2A can only be specified if the Language subparameter is SPICE
E0146	MDL_ERR_46	(line {linenum}) - No Typ Corner Defined... required
		The Typ corner was not specified in [External Model] Corner subparameter
W0147	MDL_ERR_47	(line {linenum}) - No Min Corner Defined for D2A. using Typ
		UNUSED: The Min corner was not specified in [External Model] Corner subparameter
W0148	MDL_ERR_48	(line {linenum}) - No Max Corner Defined for D2A. Using Typ
		UNUSED: The Max corner was not specified in [External Model] Corner subparameter
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 subparameter is less than 0
E0151	MDL_ERR_51	(line {linenum}) - tfall < 0, [{tFallval}]
		The tFall specified on the D_to_A subparameter is less than 0

E0152	MDL_ERR_52	(line {linenum}) - Vlow >= Vhigh [{lowValue} >= {highValue}]
		The Vlow is greater than Vhigh for the D_to_A subparameter 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 subparameter should be specified before the A_to_D subparameter
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
W0157	MDL_ERR_57	(line {linenum}) - No Max Corner defined for A2D. Using Typ
E0158	MDL_ERR_58	(line {linenum}) - Invalid {subparam} ("value")
		A Generic error to display that the [Model] subparameter (Enable; Model_type; 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}) - Vini should not be specified for model type {modelType}
		is not an Input or IO Model_type and hence Vini cannot be specified
W0160	MDL_ERR_60	(line {linenum}) - {subType} should not be specified for model type {modelType}
		UNUSED: not used
W0161	MDL_ERR_61	(line {linenum}) - Vinh should not be specified for model type {modelType}
		is not an Input or IO Model_type and hence Vinh cannot be specified
E0162	MDL_ERR_62	(line {linenum}) - Subparameter 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}) - Cref_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}) - Subparameter 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}) - Rref_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 Vmeas is not valid
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 valid
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 valid
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 valid

E0170	MDL_ERR_70	(line {linenum}) - Subparameter 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}) - Subparameter 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}) - Subparameter 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}) - Subparameter 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 which 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 Model subparameter has an invalid syntax
W0177	MDL_ERR_77	(line {linenum}) - Model {model}: {subparam} min value is not the smallest value listed
E0178	MDL_ERR_78	(line {linenum}) - 'NA' Not Allowed For Typical Value
W0179	MDL_ERR_79	Model {modelName}: {subparam} max value is not the largest value listed
E0180	MDL_ERR_80	Model '{modelName}': {modeltype} 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
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
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

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 corresponding 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 Submodel: 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 ; i.e.; 40
E0213	MDL_ERR_113	(line {linenum}) - Invalid Submodel Name ("submodelName"); Reserved Word.
		A reserved word was used as a Submodel name
E0214	MDL_ERR_114	(line {linenum}) - Duplicate Add Submodel Name {submodelName}
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 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], [Driver Schedule] or [Series Pin Mapping] sections. No more warnings will be generated for un-referenced models
		The Model modelName has not been referenced anywhere in a [Pin] or [Model Selector], [Driver Schedule] or [Series Pin Mapping] 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 Parameter list for model {modelName}
		(Though this error message is referenced in code; that code is never invoked)
E0222	MDL_ERR_122	[External Model] <{modelName}> type <{extModelType}> does not contain reserved port <{portName}> REQUIRED
		A Reserved Port reference is missing in an External Model of type extModelType
E0223	MDL_ERR_123	[External Model] <{modelName}> type <{extModelType}> contains reserved port <{portName}> ILLEGAL
		Illegal Reserved Port reference in an External Model of type extModelType
E0224	MDL_ERR_124	Illegal type <{extModelType}> or program bug
E0225	MDL_ERR_125	[EXTERNAL CIRCUIT] <{modelName}>: corner <{corner}> Port <{portName}>: used as digital and analog
E0226	MDL_ERR_126	MODEL <{modelName}> Corner <{corner}> line: {linenum} has A2D not matching TYP A2D: <{dport}> <{port1}> <{port2}>
E0227	MDL_ERR_127	MODEL <{modelName}> Corner <{corner}> line: {linenum} has D2A not matching TYP D2A: <{dport}> <{port1}> <{port2}>
W0228	MDL_ERR_128	MODEL <{modelName}> Corner <{corner}> has no A2D matching TYP: <{dport}> <{port1}> <{port2}>. Adding default.
W0229	MDL_ERR_129	MODEL <{modelName}> Corner <{corner}> has no D2A matching TYP: <{dport}> <{port1}> <{port2}>. Adding default.
E0230	MDL_ERR_130	(line {linenum}) - [End_External_Model] with no corresponding [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 subparameter
W0232	MDL_ERR_132	External Model for <{modelName}> has suspiciously few PORTS ({numPorts})
E0233	MDL_ERR_133	(line {linenum}) - No A2D or D2A for Typ corner in model {modelName}
W0234	MDL_ERR_134	(line {linenum}) - No A2D or D2A for Min corner in model {modelName}, will use Typ corner
W0235	MDL_ERR_135	(line {linenum}) - No A2D or D2A for Max corner in model {modelName}, will use Typ Corner
E0236	MDL_ERR_136	(line {linenum}) - Illegal (not specified and not reserved) port name <{portName}> in <{D2A A2D}>
		Port name can't be used for [External Model] or [External Circuit] type.
E0237	MDL_ERR_137	(line {linenum}) - Reserved Analog Port <{dport}> used as digital port

E0238	MDL_ERR_138	(line {linenum}) - Redundant port1 <{portName}> in D2A
E0239	MDL_ERR_139	(line {linenum}) - Illegal Digital Port <{dport}> in D2A
E0240	MDL_ERR_140	(line {linenum}) - Illegal Digital Port <{dport}> in A2D (must use D_receive)
E0241	MDL_ERR_141	(line {linenum}) - Illegal Digital Port <{dport}> 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 <not {portName}>
E0244	MDL_ERR_144	(line {linenum}) - [End External Circuit] with no corresponding [External Circuit]
		An [End External Circuit] keyword was found with no associated [External Circuit] keyword
W0245	MDL_ERR_145	[External Circuit] <{cktName}> has suspiciously few PORTS ({portCount})
W0246	MDL_ERR_146	(line {linenum}) - No A2D or D2A for Typ corner in Circuit {cktName}
W0247	MDL_ERR_147	(line {linenum}) - No A2D or D2A for Min corner in Circuit {cktName}, will use Typ corner
W0248	MDL_ERR_148	(line {linenum}) - No A2D or D2A for Max corner in circuit {cktName}, will use Typ Corner
E0249	MDL_ERR_149	(line {linenum}) - External Circuit-scoped keyword not found under [External Circuit].
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: The name of the external circuit is greater than (40) characters
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 <{linenum}> Illegal connection, 2 analog reference/driver ports <{port1}> <{port2}>

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 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 terminated with an [End Algorithmic Model] keyword
E0260	MDL_ERR_160	(line {linenum}) - {keywordname} keyword expected
		The <keywordname> keyword was expected to finish off a previously started section
E0261	MDL_ERR_161	(line {linenum}) - [End Algorithmic Model] with no corresponding [Algorithmic Model].
		An [End Algorithmic Model] keyword was found without an associated [Algorithmic Model] keyword
E0262	MDL_ERR_162	(line {linenum}) - {keyword1} with no corresponding {keyword2}.
		A <keyword1> keyword was found without an associated <keyword2> 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: The [External Model] or [External Circuit] subparameter <subparam>(Parameters or Converter Parameters) has an invalid assignment syntax
E0265	MDL_ERR_165	(line {linenum}) - Invalid {subparam} assignment. Each assignment should be defined on a separate line
		UNUSED: There can only be a single [External Model] or [External Circuit] subparameter <subparam>(Parameters or Converter Parameters) assignment on one line
E0266	MDL_ERR_166	(line {linenum}) - Converter Parameter {paramname} is not Numeric
		UNUSED: The Converter Parameter <paramname> was not a number
E0267	MDL_ERR_167	(line {linenum}) - The parameter {paramname} reference '{paramreference}' has mismatched parenthesis
		UNUSED: The Parameter or Converter Parameter <paramname> uses a parameter file reference <paramreference> which is syntactically not correct (has mismatched parenthesis)
E0268	MDL_ERR_168	(line {linenum}) - Invalid D2A polarity '{polarity}': Can only be 'Inverting' or 'Non-Inverting'
		UNUSED: The polarity <polarity> specified on the D_to_A line is illegal
E0269	MDL_ERR_169	(line {linenum}) - The D2A d_port should be 'D_drive' when polarity is specified
		UNUSED: The polarity argument may only be used with D_to_A converters which are connected to the d_port name D_drive.
E0270	MDL_ERR_170	Model '{modename}' D2A corner '{corner}': When polarity is specified, there should two D2A defined with opposite polarities
		UNUSED: For the Model <modename> in the D_to_A associated with corner <corner> since the polarity argument is used; two D_to_A converter lines are required; one defined as Non-Inverting and another

		defined as Inverting.
E0271	MDL_ERR_171	(line {linenum}) - Invalid Converter Parameter line. Should contain a single parameter assignment
		UNUSED: The Converter Parameter line should consist of only a single parameter assignment
E0272	MDL_ERR_172	(line {linenum}) - Parameters are not allowed for language=SPICE
		UNUSED: If language is specified as SPICE in an [External Model] then the sub-parameter Parameters cannot be specified
E0273	MDL_ERR_173	Model {modelname} has [Initial Delay] subparameter {subparam} specified but it has no {section}
		Model <modelname> has [Initial Delay] sub-parameter <subparam> (V-T, I-T) specified but the corresponding <section> [Rising/Falling Waveform] or [Composite Current] is missing
W0274	MDL_ERR_174	Vinl > Vinh for model {modelname}
		Vinl is greater than Vinh in <modelname>
E0275	MDL_ERR_175	{keyword} {modelname} : Port '{portname}' is not a reserved port name and is not used a D2A or A2D port
		The model <modelname> associated with keyword [External Model] or [External Circuit] has a port <portname> which is not defined as a D2A or A2D port
E0276	MDL_ERR_176	[End External Circuit] keyword expected.
		Missing [End External Circuit] keyword
E0277	MDL_ERR_177	(line {linenum}) - [External Model] {corner} Corner file {filename} not found
		A file specified with an external model corner was not found
C0278	MDL_ERR_178	Model {modelname}: C_comp is specified along with at least one of the C_comp_* subparameters. The choice of which to use is left to the EDA tool.
		C_comp should not be specified if any of the other C_comp_* parameters are specified
E0279	MDL_ERR_179	Model {modelname}: One of C_comp, C_comp_power_clamp, C_comp_gnd_clamp must be defined
		For Model_type Input or Terminator at least one of C_comp, C_comp_power_clamp or C_comp_gnd_clamp must be specified
E0280	MDL_ERR_180	Model {modelname}: C_comp must be defined
		For Model_type Series or Series_switch, C_comp must be specified
E0281	MDL_ERR_181	Model {modelname}: One of C_comp, C_comp_power_clamp, C_comp_gnd_clamp, C_comp_pulldown must be defined
		For Model_type Open_drain or Open_sink, a C_comp subparameter (other than C_comp_pullup) should be specified
E0282	MDL_ERR_182	Model {modelname}: One of C_comp, C_comp_power_clamp, C_comp_gnd_clamp, C_comp_pullup must be defined
		For Model_type Open_source, a C_comp subparameter (other than C_comp_pulldown) should be specified
C0283	MDL_ERR_183	Model {modelname} {C_comp_corner}: C_comp_pullup and C_comp_pulldown should not be defined for Input and Terminator model types
		For Model_type Input or Terminator, C_comp_pullup and C_comp_pulldown should not be specified
C0284	MDL_ERR_184	Model {modelname} {C_comp_corner}: C_comp_pullup, C_comp_pulldown, C_comp_gnd_clamp, C_comp_power_clamp should not be defined for Series and Series_switch model types
		For Model_type Series or Series_switch, only C_comp must be specified
C0285	MDL_ERR_185	Model {modelname} {C_comp_corner}: C_comp_pullup should not be defined for Open_drain and Open_sink model types

		C_comp_pullup should not be defined for Open_drain and Open_sink model types
C0286	MDL_ERR_186	Model {modelname} {C_comp_corner}: C_comp_pulldown should not be defined for Open_source model types
		C_comp_pulldown should not be defined for Open_source model types
C0287	MDL_ERR_187	Model '{modelname}': {subparam} should be set when Model_type is Terminator or Input or Input_ECL
		Model <modelname> is of type Terminator or Input or Input_ECL and "Rpower" and "Rgnd" subparameters should be specified
E0288	MDL_ERR_188	{identifier} {modelname} File_IBIS-ISS {issfile}: No of Terminals {numterminals} does not match the number of nodes {numnodes} in Subckt {subcktname}
		<identifier> <name> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have the same number of nodes <numnodes> as the number of terminals <numterminals>
E0289	MDL_ERR_189	{identifier} {modelname} File_IBIS-ISS {issfile}: Subckt {subcktname} has invalid node {node}
		<identifier> <name> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has an invalid node <node>
E0290	MDL_ERR_190	{identifier} {modelname} File_IBIS-ISS {issfile}: Parameter {paramname} is not {paramtype} type in Subckt {subcktname}
		<identifier> <name> references a subcircuit <subcktname> in IBIS-ISS file <issfile> whose parameter <paramname> is not of type <paramtype>
E0291	MDL_ERR_191	{identifier} {modelname} File_IBIS-ISS {issfile}: {paramname} is not defined as a parameter in Subckt {subcktname}
		<identifier> <name> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have a parameter <paramname> defined
E0292	MDL_ERR_192	{identifier} {name} File_IBIS-ISS {issfile}: Parameter {paramname} of type Boolean is not allowed in Subckt calls
		<identifier> <name> references a boolean type parameter <paramname> associated with File_IBIS-ISS <issfile>
E0293	MDL_ERR_193	{identifier} {name} File_IBIS-ISS {issfile}: Unable to parse for Subckt {subcktname}
		<identifier> <name> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which could not be parsed
E0294	MDL_ERR_194	Model '{mdlname}': [C Comp Corner] should also be specified when [C Comp Model] is specified
		In Model <mdlname>, [C Comp Corner] should be specified since [C Comp Model] has been specified
W0295	MDL_ERR_195	{identifier} {name} File_IBIS-ISS {issfile}: Parameter {paramname} is defined with a difference case as '{paramvalue}' in Subckt {subcktname}
		<identifier> <name> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has parameter <paramname> defined with a different case as <paramvalue>

2.6.2 MESSAGE CODES 500 TO 999

Code	Symbol	Message/Comments
B0500	CMPNT_ERR_0	{sourceFile}:{sourceLinenum}: Unable to get IBIS.
		UNUSED: Program data structures are corrupt in program file
E0501	CMPNT_ERR_1	(line {linenum}) - Component-scoped keyword not found under [Component].
		Component keyword found but not within a Component declaration
B0502	CMPNT_ERR_2	(line {linenum}) - Component-scoped data line not found under [Component].
		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 component.
		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
E0509	CMPNT_ERR_9	(line {linenum}) - Data line after invalid keyword.
		Orphan Data Line (not within a keyword)
B0510	CMPNT_ERR_10	{fileName}:{linenum}: Illegal line type passed to component.
		Program data structures are corrupt in program file
E0511	CMPNT_ERR_11	Component '{compName}' is duplicated within the .ibs file.
		UNUSED: The same is specified with different [Component] keywords
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: The [Manufacturer] keyword was not defined for Component
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: The [Package Model] defined for the Component cannot be found in the .ibs file or in an associated .pkg file
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: The [Package] section was not defined for Component
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 {keyword} keyword. {data}
		The 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: No [Pin] section was defined for Component
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: A [Diff Pin] section should have at 3 or 5 or 6 columns but the parser found
E0527	CMPNT_ERR_27	(line {linenum}) - Duplicate {keywordname} keyword found.
		A <keywordname> 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 header 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 header 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 header 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: A [Pin] section should have 3-6 column headers; a [Diff Pin] section should have 4-6 column headers; a [Pin Mapping] section should have 3-5 column headers and a [Series Pin Mapping] section

		should have 3-4 column headers. However number of column headers were found for the
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 subparameter 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 column Header was found after the 'function_table_group' header on the [Series Pin Mapping] keyword line
E0544	CMPNT_ERR_44	Model {modelName} has Model_type {modelType} (true differential) and requires an [External Model].
		A Diff model type should have an External Model defined
E0545	CMPNT_ERR_45	Component <{component}> pin <{pin}> model <{modelName}> type <{modelType}> 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
E0547	CMPNT_ERR_47	No Components defined.
		No components were defined
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 {keyword} (malloc).
		Memory allocation for a new keyword failed
U0551	CMPNT_ERR_51	[End Emi Component] Keyword expected
		UNUSED: An [End EMI Component] was expected to terminate an existing [Begin EMI Component] block
U0552	CMPNT_ERR_52	Unexpected [End Emi Component] Keyword
		UNUSED: An [End EMI Component] keyword was found without a preceding [Begin EMI Component] keyword
E0553	CMPNT_ERR_53	(line {linenum}) - Unexpected Keyword in a {keywordname} block
		An unexpected keyword was found in the keyword <keywordname> section
E0554	CMPNT_ERR_54	(line {linenum}) - Duplicate {keyword} keyword found.
		The keyword was repeated UNUSED: Only a single [Repeater_Pin] section is allowed in a component
E0555	CMPNT_ERR_55	(line {linenum}) - {keyword} keyword expected.
		A particular keyword was expected UNUSED: Missing [End Node Declarations] keyword
E0556	CMPNT_ERR_56	(line {linenum}) - {startkeyword} with no corresponding {endkeyword}
		The start and end keyword pairs were not matched UNUSED: Missing [End Circuit Call] keyword
W0557	CMPNT_ERR_57	(line {linenum}) - {reserved}: Reserved word used for {keyword}
		A reserved word was used as a Keyword name UNUSED: Unexpected [End Node Declarations] keyword
E0558	CMPNT_ERR_58	(line {linenum}) - {keyword} Name Previously Defined '{keywordname}'
		A keyword name was already used earlier UNUSED: Unexpected [End Circuit Call] keyword
E0559	CMPNT_ERR_59	(line {linenum}) - {keyword}: Missing Name
		A keyword name is missing UNUSED: Unexpected [End External Circuit] keyword
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 referenced as a [Diff Pin] though the associated Model Selector {modelSelectorName} is referenced by a [Diff Pin]. Such cautions will be suppressed further.
		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: The model associated with pin for component is of type Series or Series_switch(which is not allowed)
C0611	PIN_ERR_11	Pin {pinName} is not referenced as a [Diff Pin] though the associated Model {modelName} is referenced by a [Diff Pin]. Such cautions will be suppressed further.
		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 <pinName> is referenced in the [Merged Pins] section of Package pkgName of Component <compName> 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 <pinName> is referenced in the [Merged Pins] section of Package pkgName of Component <compName> 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 <compName> and Package <pkgName>, a Pin <pinName> of <type> POWER is merged with a Pin <pinMerged> of <type> GND or a Pin <pinName> of <type> GND is merged with a Pin <pinMerged> of <type> 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 <compName> and Package <pkgName>, a Pin <mergingPin> is merged with a Pin <mergedPin> but they are connected to different busses <mergingPinBus>, <mergedPinBus> in the [Pin Mapping] section
E0619	PIN_ERR_19	[Package Model] {pkgName} with [Merged Pins] requires [Pin Mapping] in [Component] {compName}

		The Package <pkgName> in Component <compName> has a [Merged Pins] section but no [Pin Mapping] section
E0620	PIN_ERR_20	Component {compName}: Pin '{pinName}' is associated with a Model Selector '{mselName}' which references model of type '{modelType}'
		In Component <compName>, the Pin <pnName> is associated with a Model Selector <mselName> which has an illegal reference to a model of type <modelType>
E0621	PIN_ERR_21	Component {compName}: Pin '{pinName}' has model '{modelName}', but Pin '{pinName}' which has the same signal_name '{signalName}' has a model '{modelName}'
		In Component <compName>, two pinNames with the same signalName have different modelNames (POWER, GND)
E0622	PIN_ERR_22	Pin name {pinName} is not alphanumeric
		The pin name <pinName> has some non alphanumeric characters
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 entries
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 allocate 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
E0730	PINMPG_ERR_30	Component '{compName}': Pins '{pinName}' and '{pinName}' with model '{modelName}' have the same '{refName}' '{refBusName}' but different signal_names '{signalName}' and '{signalName}'
		In Component <compName> two pins have the same modelNames and reference names but different signalNames
E0731	PINMPG_ERR_31	The file {filename} has [IBIS Ver] <{version}> however, IBIS files referenced by EMD require compatibility with IBIS 7.0 Pin Mapping and bus_label rules. Checking for IBIS 7.0 compatibility results in the following error(s):
		An EMD file fileName with IBIS version version references an IBIS file which does not adhere to the pin mapping and bus_label rules required by the EMD file
E0800	DIFPIN_ERR_0	(line {linenum}) - Unable to allocate 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 too 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 columns; 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 of the numeric values of tdelay column has invalid syntax
W0817	DIFPIN_ERR_17	(line {linenum}) - Suspicious value for {columnName} column.
		One of 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	Checking '{fileName}'. Could not determine Version for file
		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 use 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} characters.
		UNUSED: The number of characters on the line has exceeded i.e.; 120 characters
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.{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 "\"
		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 was not a valid keyword
E0912	PARSE_ERR_12	(line {linenum}) - Illegal keyword for a '.ebd' file.
		A keyword found in a '.ebd' file was not a valid keyword
E0913	PARSE_ERR_13	(line {linenum}) - Illegal keyword for a '{fileType}' file.
		A keyword found in a file of type fileType was 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: The line associated with a Description in an .ami file at line is greater than characters long (ie; 120 characters)
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)
E0925	PARSE_ERR_25	Parsing aborted
		The parsing was aborted because of an unrecoverable error

2.6.3 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}) - File header-scoped keyword not found under file header section.
		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}) - File header-scoped data line not found under file header section.
		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.
		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 use 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 subparameter 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 specified 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 subparameters 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 subparameters 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.
E1213	PKG_ERR_13	Component '{compName}': Required sub-parameter R_pkg not found.
		The R_pkg subparameter was not defined in the [Pacakege] section for component
E1214	PKG_ERR_14	(line {linenum}) - Required sub-parameter L_pkg not found.

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.
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 subparameter 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")

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		An invalid numeric 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 subparameter 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

2.6.4 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 given load Rref={Rref} Ohms to Vref={Vref}V
W1501	ACDC_ERR_1	INFO: v_dc L/H = {VdcLow} {VdcHigh}
W1502	ACDC_ERR_2	Model '{model}': {Typ Min Max} AC {Rise Fall} Endpoints ({VacLow}V, {VacHigh}V) not within , {Vtol}V ({percTol}%) of ({VdcLow}V, {VdcHigh}V) on VI curves for {Rfixture} Ohms to {Vfixture}V
W1503	ACDC_ERR_3	Model {model}: The [{Rise Fall} Waveform] with [R_fixture]={Rfixture} Ohms and [{Vfixture}]= {Typ Min Max}V has {VacLow} column DC endpoints of {VacHigh}V and a difference of {percTol}% and {VdcLow}%{VdcHigh}v, but an equivalent load applied to the model's I-V tables yields different 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 , {Vtol}V ({percTol}%) of ({VdcLow}V, {VdcHigh}V) on VI curves for {Rfixture} Ohms to {Vfixture}V
W1505	ACDC_ERR_5	INFO low t/vac/vdc {TacLow} {VacLow} {VdcLow} high {TacHigh} {VacHigh} {VdcHigh} rfix vfix {Rfixture} {Vfixture}
		UNUSED: ACDC_DEBUG must be enabled.
C1506	ACDC_ERR_6	Model '{model}': Extreme currents present in {corner} {curveName} VI Curve ({current}A @ {voltage}V)
		For a particular model and corner and curve, the current specified was above a threshold at a given voltage at the extremities
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 based on piece-wise linear interpolation
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: percentLimit = 5%
W1515	ACDC_ERR_15	Model '{modelName}': {Typ Min Max} {Rising Falling} VI curves cannot drive through Vmeas={Vmeas}V given load Rref={Rref} Ohms to Vref={Vref}V
E1516	ACDC_ERR_16	[Ramp] dV data cannot be compared against I-V dV, as I-V table data is not present in Model {modelName}.
		Ramp checks cannot be performed if there are no IV tables
E1517	ACDC_ERR_17	[Ramp] dV data cannot be compared against I-V dV, as [External Model] is used in place of I-V table data in Model {modelName}.
		Ramp checks cannot be performed if an external model is referenced
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 DC drive characteristics (no [Pullup] table). This warning can be silenced by using an open drain Model_type or by adding 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 drive characteristics (no [Pulldown] table). This warning can be silenced by using an open source Model_type or by adding 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 drive characteristics (no [Pullup] table). This warning can be silenced by changing the Model_type or by adding a [Pullup] table.
		The [Pullup] table for model is missing
W1707	CHK_ERR_7	[Model] {modelName} has no description of the buffer's high state DC drive characteristics (no [Pullup] table). This warning can be silenced by changing the Model_type or by adding a [Pullup] table.
		The [Pullup] table for model is missing
E1708	CHK_ERR_8	Component <{compName}>: Duplicate Node Name <{nodeName}>
E1709	CHK_ERR_9	Component <{compName}>: Illegal Node: <{nodeName}> same as pin <{pin}>
W1710	CHK_ERR_10	CMPT '{compName}': Rpkg {Typ Min Max} value {Rpkg} Ohms not within expected range ({minR} Ohms, {maxR} Ohms)
		UNUSED: minR = 0; maxR = 50
W1711	CHK_ERR_11	CMPT '{compName}': Rpkg Max value < Min value
W1712	CHK_ERR_12	CMPT '{compName}': Lpkg {Typ Min Max} value {Lpkg}nH not within expected range ({minL}nH, {maxL}nH)
		UNUSED: minL = 0; maxL = 1000nH
W1713	CHK_ERR_13	CMPT '{compName}': Lpkg Max value < Min value
W1714	CHK_ERR_14	CMPT '{compName}': Cpkg {Typ Min Max} value {Cpkg}pF not within expected range ({minC}pF, {maxC}pF)
		UNUSED: minC = 0; maxC = 1000pF
W1715	CHK_ERR_15	CMPT '{compName}': Cpkg Max value < Min value
W1716	CHK_ERR_16	Model '{modelName}': C_comp {Typ Min Max} value {Ccomp}pF out of expected range ({minC}pF, {maxC}pF)
		UNUSED: minC = 0; maxC = 1000pF
W1717	CHK_ERR_17	Model '{modelName}': C_comp_pullup {Typ Min Max} value {Ccomp}pF out of expected range ({minC}pF, {maxC}pF)
		UNUSED: minC = 0; maxC = 1000pF
W1718	CHK_ERR_18	Model '{modelName}': C_comp_pulldown {Typ Min Max} value {Ccomp}pF out of expected range ({minC}pF, {maxC}pF)
		UNUSED: minC = 0; maxC = 1000pF
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: minC = 0; maxC = 1000pF
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: minC = 0; maxC = 1000pF
W1721	CHK_ERR_21	Model '{modelName}' is of type {modelType} and should not have any {keyword} section

		Check on various keywords based on Model_type
E1800	CIRCUIT_ERR_0	(line {linenum}) - Too Many Signal Pins (only one instance of Signal_pin, Diff_signal_pins, or Series_pins is allowed) <{pinName}>
E1801	CIRCUIT_ERR_1	(line {linenum}) - Redundant use of port <{portName}>
E1802	CIRCUIT_ERR_2	(line {linenum}) - Use of reserved port <{portName}> 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 <{paramName}>
E1805	CIRCUIT_ERR_5	(line {linenum}) - Not Enough arguments to {paramName}
E1806	CIRCUIT_ERR_6	(line {linenum}) - Extra characters on PIN line <{text}>
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}
B1810	CIRCUIT_ERR_10	should not be here {sourceFile} {sourceLinenum}
		The code has a bug
B1811	CIRCUIT_ERR_11	should not be here <{sourceFile}> <{sourceLinenum}>
		The code has a bug
B1812	CIRCUIT_ERR_12	should not get here <{sourceFile}> <{sourceLinenum}>
		The code has a bug
B1813	CIRCUIT_ERR_13	should not be here {fileName} {linenum} {sourceFile} {sourceLinenum}
		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: <{linenum}> Redundant use of port <{portName}>
E1816	CIRCUIT_ERR_16	CCALL Line <{cktLinenum}> A2D Line <{a2dLinenum}> Illegal connection, 2 analog reference/driver ports <{port2}>=<{node1}> <{port3}>=<{node2}>
E1817	CIRCUIT_ERR_17	Circuit Call Line {cktLinenum} instantiates External Circuit at {cktdefLinenum} with Floating Internal

		Node <{nodeName}> type {nodeType}
E1818	CIRCUIT_ERR_18	Internal Node <{nodeName}>, External Circuit at {linenum}: is analog and digital
E1819	CIRCUIT_ERR_19	CCALL Line <{cktLinenum}> A2D Line <{a2dLinenum}> Illegal connection, 2 analog reference/driver ports <{port1}>=<{node1}> <{port2}>=<{node2}>{temp1}{temp2}
B1820	CIRCUIT_ERR_20	should not get here {sourceFile} {sourceLinenum}
E1821	CIRCUIT_ERR_21	Component <{compName}> Floating Node <{nodeName}> (1 connection){cktCall}
W1822	CIRCUIT_ERR_22	Component <{compName}> Unused Node <{nodeName}> (0 connection){cktCall}
E1823	CIRCUIT_ERR_23	Component <{compName}> Floating Pin <{nodeName}> (no connections but used in CIRCUIT CALL)
E1824	CIRCUIT_ERR_24	Component {compName} Node <{nodeName}>: is analog and digital{digitalOrAnalog}
E1825	CIRCUIT_ERR_25	Component <{compName}> Node: <{nodeName}> has a digital receiver but no digital driver{portName}
W1826	CIRCUIT_ERR_26	Component <{compName}> Node: <{nodeName}> has a digital receiver but no obvious digital driver This indicates connection to a AMS port that 'may' be digital {portName}
E1827	CIRCUIT_ERR_27	Component <{compName}> Node: <{portName}> has a digital driver but no digital receiver{portName}
W1828	CIRCUIT_ERR_28	Component <{compName}> Node: <{nodeName}> has a digital driver but no obvious digital receiver This indicates connection to a AMS port that 'may' be digital {portName}
E1829	CIRCUIT_ERR_29	Component <{compName}> Node: <{nodeName}> has no defined drivers{portName}
E1830	CIRCUIT_ERR_30	Component <{compName}> Node: <{nodeName}> has an analog receiver but no analog driver{portName}
W1831	CIRCUIT_ERR_31	Component <{compName}> Node: <{nodeName}> has an analog receiver but no obvious analog driver This indicates connection to a AMS port that 'may' be analog {portName}
E1832	CIRCUIT_ERR_32	Component <{compName}> Node: <{nodeName}> has an analog driver but no analog receiver{portName}
W1833	CIRCUIT_ERR_33	Component <{compName}> Node: <{nodeName}> has an analog driver but no obvious analog receiver This indicates connection to a AMS port that 'may' be analog {portName}

E1834	CIRCUIT_ERR_34	Component <{compName}> Pin <{nodeName}> Used as Digital in CIRCUIT CALL(s)(pins are analog){portName}
E1835	CIRCUIT_ERR_35	<{nodeName}> is connect to a reserved port
E1836	CIRCUIT_ERR_36	Component <{compName}> Pin <{nodeName}> Used as Digital in CIRCUIT CALL(s)(pins are analog)
E1837	CIRCUIT_ERR_37	Component <{compName}> Node <{nodeName}> Used as Analog and Digital in CIRCUIT CALL(s)
E1838	CIRCUIT_ERR_38	(line {linenum}) No [External Circuit] for [Circuit Call] {cktCall} in Component {compName}
E1839	CIRCUIT_ERR_39	CMPT <{compName}>, [Circuit Call] at (line {cktLinenum}) references illegal pin: <{pinName}>
E1840	CIRCUIT_ERR_40	[Circuit Call] at (line {linenum}) first reference pin <{pinName}> is not declared CIRCUITCALL in [Pin] section
E1841	CIRCUIT_ERR_41	[Circuit Call] at (line {linenum}) second reference pin <{pinName}> is not declared CIRCUITCALL in [Pin] section
E1842	CIRCUIT_ERR_42	CMPT <{compName}>, [CIRCUIT CALL] at (line {linenum}) references same pin twice: <{pinName}>
E1843	CIRCUIT_ERR_43	CMPT <{compName}>, [CIRCUIT CALL] at (line {linenum}) no reference pin (need Signal_pin, Diff_signal_pins, Series_pins)
E1844	CIRCUIT_ERR_44	Circuit <{cktCall}>: Floating User Defined Digital Port <{dport}>
E1845	CIRCUIT_ERR_45	[Circuit Call] at (line {linenum}), no port <{portName}> in [External Circuit] {cktCall}
E1846	CIRCUIT_ERR_46	[Circuit Call] at (line {linenum}), no node/pin <{nodeName}> in Component {compName}
E1847	CIRCUIT_ERR_47	Circuit Call {cktcall} File_IBIS-ISS {issfile}: Parameter {paramname} is not {paramtype} type in Subckt {subcktname}
		The Circuit Call <cktCall> references a subcircuit <subcktname> in IBIS-ISS file <issfile> whose parameter <paramname> is not of type <paramtype>
E1848	CIRCUIT_ERR_48	Circuit Call {cktcall} File_IBIS-ISS {issfile}: {paramname} is not defined as a parameter in Subckt {subcktname}
		The Circuit Call <cktCall> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have a parameter <paramname> defined
E1849	CIRCUIT_ERR_49	Circuit Call {cktcall} File_IBIS-ISS {issfile}: Parameter {paramname} of type Boolean is not allowed in Subckt calls

		The Circuit Call <cktCall> references a boolean type parameter <paramname> associated with File_ISS <issfile>
E1850	CIRCUIT_ERR_50	(line {linenum}) - Converter Parameter {paramname} is not Numeric
		A numeric value was expected for the Converter Parameter <paramname>
E1851	CIRCUIT_ERR_51	[Circuit Call] {cktCall}: Parameters should not be defined when language is SPICE
		In the [Circuit Call] section <cktCall>, parameters have been defined although the language is SPICE
E1852	CIRCUIT_ERR_52	(line {linenum}) - The parameter {paramname} reference '{paramvalue}' has mismatched parenthesis
		The parameter value <paramvalue> being assigned to parameter <paramname> does not have the right syntax
B1853	CIRCUIT_ERR_53	(line {linenum}) - Unable to Parse {identifier}: {filename} {fileline}
		A program bug exists in file <filename> at line <fileline> while parsing of <identifier>
E1854	CIRCUIT_ERR_54	(line {linenum}) - Invalid {identifier} assignment. Too many tokens found
		Too many tokens were found while trying to parse a data line associated with <identifier>
E1855	CIRCUIT_ERR_55	(line {linenum}) - Invalid {identifier} assignment. Each assignment should be defined on a separate line
		More than one assignment to <identifier> on the same data line is not allowed
E1856	CIRCUIT_ERR_56	(line {linenum}) - Invalid Converter Parameter line. Should contain a single parameter assignment
		The syntax of a Converter_Parameter line is incorrect
E1857	CIRCUIT_ERR_57	Circuit Call {cktcall}: File_IBIS-ISS {issfile}: Unable to parse for Subckt {subcktname}
		The Circuit Call <cktCall> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which could not be parsed
W1858	CIRCUIT_ERR_58	Circuit Call {cktcall} File_IBIS-ISS {issfile}: Parameter {paramname} is defined with a difference case as '{paramvalue}' in Subckt {subcktname}
		The Circuit Call <cktCall> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has parameter <paramname> defined with a different case as <paramvalue>
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}.
		The code failed to allocate bytes of memory

E1907	CMN_ERR_7	Memory reallocation failed. This request {size}.
		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 truncated 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 numeric 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 '{fileName}' requires a '{extension}' Extension.
		A particular file type requires a particular extension UNUSED: An AMI file name requires a '.ami' extension

E1925	CMN_ERR_25	File Name '{fileName}' has a Stem length {stemLen} which is longer than {maxLen} characters.
		The stem of a fileName was found to be longer than the maximum allowed
E1926	CMN_ERR_26	File Name '{fileName}' has an absolute path. File paths should be relative.
		Filenames cannot have an absolute filepath
E1927	CMN_ERR_27	File Name '{fileName}' has an illegal character with ASCII code {asciiCode}
		The fileName was found to have an illegal character
E1928	CMN_ERR_28	File Name '{fileName}' has an illegal character sequence '{charSequence}'
		The fileName was found to contain an illegal character sequence <charSequence>
E1929	CMN_ERR_29	File Name '{fileName}' has a zero length Stem
		The fileName has no stem

2.6.5 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 subparameter 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 subparameter 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 specified for waveform
E2019	WVFRM_ERR_19	'NA' not allowed for {linenum} value
		The Time value in a waveform 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 occurrence for model does not have identical timepoints with its [Composite Current] waveform
B2100	STRINGLIST_ERR_0	Unable to Allocate Memory: {sourceFile} {sourceLinenum}
		The code failed to allocate memory
B2101	STRINGLIST_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}) - Test Load-scoped keyword not found under [Test Load].
		A [Test Load] keyword was found where not expected
E2203	TESTLOAD_ERR_3	(line {linenum}) - Test Load-scoped data line not found under [Test Load].
		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}) - Data line after invalid keyword.
		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 <{testloadName}>: {sourceFile} {sourceLinenum}
		The code has a bug when 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 which 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' subparameter 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 subparameter 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 illegal value
E2222	TESTLOAD_ERR_22	(line {linenum}) - {name} Name Over {maxLength} Characters Long
		UNUSED: The Test Load subparameter has a value which is more than characters long
E2223	TESTLOAD_ERR_23	(line {linenum}) - Invalid {name} ("badValue"); Reserved Word.
		The Test Load subparameter 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}) - Test Data-scoped keyword not found under [Test Data].
E2303	TESTDATA_ERR_3	(line {linenum}) - Test Data-scoped data line not found under [Test Data]
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}) - Data line after invalid keyword.
B2314	TESTDATA_ERR_14	Unable to eat keyword <{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 which 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 subparameter 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}) - Submodel-scoped keyword not found under [Submodel].
E2403	SUBMDL_ERR_3	(line {linenum}) - Submodel-scoped data line not found under [Submodel].
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 <{SubModel}>: {sourceFile} {sourceLinenum}
E2409	SUBMDL_ERR_9	Unable to Save Submodel Name
E2410	SUBMDL_ERR_10	(line {linenum}) - 'Submodel' 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}) - Submodel Name Over {maxChars} Characters Long
E2413	SUBMDL_ERR_13	(line {linenum}) - Invalid Submodel 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 Submodel Data
		A line was found in the [Submodel] section which 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 subparameter 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] subparameter {subparam} specified but it has no {section}
		SubModel <submodelName> has [Initial Delay] sub-parameter <subparam> (V-T, I-T) specified but the corresponding <section> [Rising/Falling Waveform] or [Composite Current] is missing

2.6.6 MESSAGE CODES 2500 TO 2999

Code	Symbol	Message/Comments
E2500	SSWCH_ERR_0	(line {linenum}) - Unknown subparameter '{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
E2508	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
W2509	SSWCH_ERR_9	(line {linenum}) - No function table group entry found
		An empty function table group was specified
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 defined in the [Pin] section of the component
E2609	SPINMPG_ERR_8	Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' has an unknown model.
E2610	SPINMPG_ERR_9	Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' has model '{model}' which neither TERMINATOR nor NC.
		UNUSED: The Pin1 referred to in the [Series Pin Mapping] section of Component has a model type which is neither Terminator nor NC
E2611	SPINMPG_ERR_10	Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}' has Model '{model}' with unknown type.
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 defined in the [Pin] section of the component
E2613	SPINMPG_ERR_12	Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' has an unknown model.
E2614	SPINMPG_ERR_13	Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' has model '{model}' which neither TERMINATOR nor NC.
		UNUSED: The Pin2 referred to in the [Series Pin Mapping] section of Component has a model type which is neither Terminator nor NC
E2615	SPINMPG_ERR_14	Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}' has Model '{modelName}' with unknown type.
		UNUSED: The Pin2 referred to in the [Series Pin Mapping] section of Component has a model whose type is not known
E2616	SPINMPG_ERR_15	Component '{compName}': [Series Pin Mapping] Pin1 '{pinName}': model type cannot be Series or Series_switch.
		UNUSED: The Pin1 referred to in the [Series Pin Mapping] section of Component has an an illegal model type (Series or Series_switch)
E2617	SPINMPG_ERR_16	Component '{compName}': [Series Pin Mapping] Pin2 '{pinName}': model type cannot be Series or Series_switch.
		UNUSED: The Pin2 referred to in the [Series Pin Mapping] section of Component has an an illegal model type (Series or Series_switch)
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 allocate 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}) - Submodel Specification: already defined for this Submodel
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 subparameter 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 Submodel Spec Data
		A line was found in the [Submodel Spec] section which 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}
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 subparameter 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 subparameter 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

2.6.7 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 subparameter cannot be less than 0
E3002	SECT_ERR_2	(line {linenum}) - Len should be specified before R
		The Len subparameter 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 subparameter in an R/L/C section
E3004	SECT_ERR_4	(line {linenum}) - R should not be less than zero
		The value of the R subparameter cannot be less than 0
E3005	SECT_ERR_5	(line {linenum}) - Len should be specified before L
		The Len subparameter 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 subparameter in an R/L/C section
E3007	SECT_ERR_7	(line {linenum}) - L should not be less than zero
		The value of the L subparameter cannot be less than 0
E3008	SECT_ERR_8	(line {linenum}) - Len should be specified before C
		The Len subparameter 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 subparameter in an R/L/C section
E3010	SECT_ERR_10	(line {linenum}) - C should not be less than zero
		The value of the C subparameter 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 subparameter are mandatory if the value of the Len subparameter 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 <{pinName}> in Package Model Pin_Number list.
E3101	ROW_ERR_1	(line {linenum}) - Repeated ROW <{pinName}>.

E3102	ROW_ERR_2	(line {linenum}) - Expected Pin <{pinName}> 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 <{actualCount}> <= pLastRow->uiColumnCount <{declaredCount}>
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 <{text}>, 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 subparameter 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
W3212	RCVTH_ERR_12	Model {modelName} Receiver Thresholds: Vth_min must not be specified for differential receivers
W3213	RCVTH_ERR_13	Model {modelName} Receiver Thresholds: Vth_max must not be specified for differential receivers
W3214	RCVTH_ERR_14	Model {modelName} Receiver Thresholds: Vinh_ac must not be specified for differential receivers
W3215	RCVTH_ERR_15	Model {modelName} Receiver Thresholds: Vinl_ac must not be specified for differential receivers
W3216	RCVTH_ERR_16	Model {modelName} Receiver Thresholds: Vinh_dc must not be specified for differential receivers
W3217	RCVTH_ERR_17	Model {modelName} Receiver Thresholds: Vinl_dc must not be specified for differential receivers
W3218	RCVTH_ERR_18	Model {modelName} Receiver Thresholds: Tslew_ac must not be specified for differential receivers
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
W3226	RCVTH_ERR_26	Model {modelName} Receiver Thresholds: Vcross_high must not be specified for single ended receivers

W3227	RCVTH_ERR_27	Model {modelName} Receiver Thresholds: Vdiff_ac must not be specified for single ended receivers
W3228	RCVTH_ERR_28	Model {modelName} Receiver Thresholds: Vdiff_dc must not be specified for single ended receivers
W3229	RCVTH_ERR_29	Model {modelName} Receiver Thresholds: Tdiffslew_ac must not be specified for single ended receivers
E3230	RCVTH_ERR_30	(line {linenum}) - Unknown Line Among Receiver Threshold Data
		A line was found in the [Receiver Threshold] section which 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}) - Package Model-scoped keyword not found under [Package Model]
E3402	PKGMDL_ERR_2	(line {linenum}) - Package Model-scoped data line not found under [Package Model].
B3403	PKGMDL_ERR_3	{sourceFile}:{sourceLinenum}:Illegal keyword.
		Program data structures are corrupt in program file
E3404	PKGMDL_ERR_4	(line {linenum}) - Data line after invalid keyword.
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 <{pinName}>.
E3438	PKGMDL_ERR_38	(line {linenum}) - R/L/C section not found under [Pin Numbers].
E3439	PKGMDL_ERR_39	(line {linenum}) - Cannot Nest Forks
E3440	PKGMDL_ERR_40	(line {linenum}) - 'Fork' not found under [Pin Numbers].
E3441	PKGMDL_ERR_41	(line {linenum}) - 'Endfork' not found under [Pin Numbers].
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 subparameters 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 <{pinCount}> not the same as count of Pin Numbers names found <{pkgPinCount}> 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 <pkgModelName> 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 <pinName> 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 <pinName> 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 <linenum>

2.6.8 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
W3601	NODE_ERR_1	Component {compName}: Empty [Node Declarations] found
		The Component <compName> has an empty [Node Declarations] section
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 numeric value was specified
E3705	MTX_ERR_5	(line {linenum}) - Suspicious Bandwidth value.
E3706	MTX_ERR_6	(line {linenum}) - Bandwidth <{bandwidth}> must be less than Number_of_Pins <{rowCount}>.
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 already 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 subparameter 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 with 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 which was not a valid line

E3807	MSPEC_ERR_7	(line {linenum}) - {subparam} Already defined For Model '{modelName}'
		The subparameter 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} Hysteresis 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: S_overshoot_low or D_overshoot_low specified in the [Model Spec] section beginning on line was greater than zero
W3811	MSPEC_ERR_11	{subparam} is less than zero for Model Spec defined on line {modelSpecLinenum}
		UNUSED: S_overshoot_high or D_overshoot_high specified in the [Model Spec] section beginning on line was less than zero
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 specified 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	{subparam} found with no associated {subparam1} or {subparam2} for Model Spec defined on line {modelSpecLinenum}
		A line was specified for [Model Spec] defined 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 first item should be less than the second item for the [Model Spec] section defined on a line. 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 first item should be greater than the second item for the [Model Spec] section defined on a line. D_overshoot_high should be greater than S_overshoot_high; Pulse_high should be greater than Vinl-; Pulse_high should be greater than Vinh

W3819	MSPEC_ERR_19	{subparam1}({rangeType1}) is not less than or equal to {subparam2}({rangeType2}) for Model Spec defined on line {linenum}
W3820	MSPEC_ERR_20	{subparam1}({rangeType1}) is not greater than or equal to {subparam2}({rangeType2}) for Model Spec defined on line {linenum}
		The first item should not be less than the second item for the [Model Spec] section defined on a line. 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 subparameter 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

2.6.9 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}) - Model Selector-scoped keyword not found under [Model Selector].
		An unexpected [Model Selector] section was found
E4002	MSEL_ERR_2	(line {linenum}) - Model Selector-scoped data line not found under [Model Selector].
		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
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 {keywordname} not found.
		The keyword <keywordname> 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 subparameter 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}) - Electrical Board Description-scoped keyword not found under [Begin Board Description]
E4302	EBDMDL_ERR_2	(line {linenum}) - Electrical Board Description-scoped data line not found under [Begin Board Description].
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 <{pinName}>.
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 <{actualPins}> not the same as count of Pin Numbers names found <{pinCount}>.
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}) - R/L/C section not found under [Path Description].
B4343	EBDMDL_ERR_43	Mandatory Keyword {keyword} not found
		Missing mandatory keyword <keyword>
E4344	EBDMDL_ERR_44	(line {linenum}) - 'NC' not found under [Pin List].
E4345	EBDMDL_ERR_45	(line {linenum}) - 'Fork' not found under [Path Description]
E4346	EBDMDL_ERR_46	(line {linenum}) - 'Endfork' not found under [Path Description].
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_designator.pin found after Node sub param
E4351	EBDMDL_ERR_51	(line {linenum}) - 'Node' sub param not found under [Path Description].
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}'

2.6.10 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 subparameter 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: A branch with a beginning '(' was expected as a child of but found a token instead
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 subparameter 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 which 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 {fileName} has mismatched parenthesis
		The number of open parenthesis '(' should be equal to the number of close parenthesis ')' in parameter file <fileName>
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 {branchName} branch found
		No (<branchName>) 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}
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}
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)
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 section
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 subparameter 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 <param?
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 subparameter 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 labels; 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 labels 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})
		4680
E4658	ALGMOD_ERR_58	{paramName}: Format {format} min value ({minValue}) should be less than or equal to max value ({maxValue})
		UNUSED: For AMI parameter the Format definition has a min value which is greater than the max value
E4659	ALGMOD_ERR_59	{paramName}: Format {format} {formatPart} ({value}) cannot be negative or zero
		UNUSED: For parameter ; for Format (Steps or Increment) the format parameter (Delta or #Steps) has a negative value
E4660	ALGMOD_ERR_60	{paramName}: Default value ({default}) is not in between Format {format} min value ({minValue}) and max value ({maxValue})
		UNUSED: For Format for parameter the Default value was not between the min value and the max value
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: For Format Corner for parameter ; the Default value must match one of the corner values ; or
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 subparameter 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
		A duplicate <branchName> was found under <paramName>
W4667	ALGMOD_ERR_67	{paramName}: A branch name cannot be the same as a sub-branch name
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 <paramname> is not specified in AMI files with version <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 <paramname> is of Format List but the number of entries in the List <listnum> does not match the number of entries in the associated ListTip <listtipnum>

E4671	ALGMOD_ERR_71	Parameter '{paramname}': Duplicate value '{listtipval}' found in ListTip but the corresponding values in List ('{listval1}', '{listval2}') are not the same
		The Parameter <paramname> is of Format List but there are two entries <listval1> and <listval2> which have the same associated ListTip value <listtipval>
E4672	ALGMOD_ERR_72	Parameter Repeater_Type {formatordefault} can only have values 'Redriver' or 'Retimer'
		The <formatordefault> (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 <paramname> (DLL_Path or Supporting_Files) has a value <paramvalue> which contains a backslash '\' character
E4675	ALGMOD_ERR_75	Parameter '{paramname}' value '{paramvalue}' ends with a slash '/'
		The parameter <paramname> (DLL_Path or Supporting_Files) has a value <paramvalue> which ends with a slash '/' character
E4676	ALGMOD_ERR_76	Parameter '{paramname}' value '{paramvalue}' is invalid
		The parameter <paramname> has an invalid value <paramvalue>
E4677	ALGMOD_ERR_77	Parameter '{paramname}' row has more than 1 value: '{noofvalues}'
		The number of values <noofvalues> in the table associated with parameter <paramname> (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 <paramname> (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 <paramname>(Supporting_Files) specifies a path <paramvalue> to a file which does not exist
E4680	ALGMOD_ERR_80	Parameter '{paramname}' ListTip value is not string '{listtipval}'
		The parameter <paramname> has an associated ListTip which has a non-string value <listtipval>
E4681	ALGMOD_ERR_81	Parameter '{paramname}' ListTip value is invalid "
		The parameter <paramname> has ListTip specified in which one of the values is the empty (null) string
E4682	ALGMOD_ERR_82	Missing Root Name
		UNUSED: The parameter file has a missing root name
E4683	ALGMOD_ERR_83	Referenced parameter '{paramname}' not found in file '{fileName}'. {subparam} '{subparamname}' Ignored.
		UNUSED: The parameter file parameter <paramname> referenced by Subparameter <subparam> (Parameters or Converter Parameters) parameter <subparamname> was not found in the parameter file <filename>
E4684	ALGMOD_ERR_84	No Reserved_Parameters or Model_Specific branches found
		UNUSED: The parameter file contains neither a Reserved_Parameters branch nor a Model_Specific branch
E4685	ALGMOD_ERR_85	Reserved_Parameters branch is not allowed for non AMI parameter files

		UNUSED: A non-AMI parameter file cannot have a Reserved_Parameters branch defined in it
E4686	ALGMOD_ERR_86	{paramname}: Usage should be Info or In for parameters in AMI files. ({subparam} '{subparamname}')
		UNUSED: The parameter file parameter <paramname> referenced by Subparameter <subparam> (Parameters or Converter Parameters) parameter <subparamname> should have a Usage of Info or In since it is defined in an AMI parameter file
E4687	ALGMOD_ERR_87	{paramname}: Usage should be Info for parameters in non-AMI files. ({subparam} '{subparamname}')
		UNUSED: The parameter file parameter <paramname> referenced by Subparameter <subparam> (Parameters or Converter Parameters) parameter <subparamname> should have a Usage of Info since it is defined in a non-AMI parameter file
E4688	ALGMOD_ERR_88	{paramname}: cannot be of Format Table, Gaussian, Dual-Dirac, DjRj. ({subparam} '{subparamname}')
		UNUSED: The parameter file parameter <paramname> referenced by Subparameter <subparam> (Parameters or Converter Parameters) parameter <subparamname> cannot be of Format Table; Gaussian; Dual-Dirac or DjRj
E4689	ALGMOD_ERR_89	[Algorithmic Model] subparameter {subparam} is not allowed for model {modelname} which is of type {modeltype}
		Model <modelName> of type <modelType> cannot use the subparameter <subparameter>(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 <paramname> is of type <inputoutput>(Rx, Tx) but the parameter file has already been found to have an opposite input out type
E4691	ALGMOD_ERR_91	subparameter {subparam} is associated with a parameter file {paramfile} which was found to have a direction '{input output}-only'
		The <subparam> (Executable_Rx) has to be associated with a parameter file <paramfile> of <inputoutput> type <Rx-only> and the <subparam> (Executable_Tx) has to be associated with a parameter file <paramfile> of <inputoutput> type <Tx-only>
E4692	ALGMOD_ERR_92	{paramname}: Illegal {type} value {value} specified in {subparam}
		The value <value> of type <type> specified for subparameter <subparam> of parameter <paramname> 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 <paramtype> (Parameter, Converter Parameter) <paramname> has a Usage Dep in Parameter file <paramfile> 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 <paramtype> (Parameter, Converter Parameter) <paramname> has a Usage Dep in Parameter file <paramfile> 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 <paramname> 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 <modelname> is of type <modeltype> but is associated with a Parameter file <filename> which was found to have direction <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 <modelname> of type <modeltype> is a Receiver and is associated with a Parameter file <filename> which defines a PAM4 Modulation but does not define PAM4_UpperThreshold and PAM4_LowerThreshold
E4701	ALGMOD_ERR_101	ListTip is not associated with Format List
		A ListTip leaf was found which was not associated with a Format List in a parameter file
E4702	ALGMOD_ERR_102	Code file {filename} does not contain required AMI_Init() function
		An Executable file <filename> does not define the AMI_Init() function
E4703	ALGMOD_ERR_103	Code file {filename} does not contain required AMI_Close() function
		An Executable file <filename> does not define the AMI_Close() function
E4704	ALGMOD_ERR_104	Code file {filename} does not contain AMI_GetWave() function, required because GetWave_Exists=True in AMI file {amifilename}
		An Executable file <filename> does not define the AMI_GetWave() function which is required because the associated AMI parameter file <amifilename> has defined the parameter GetWave_Exists as true
E4705	ALGMOD_ERR_105	Code file {filename} does not contain AMI_Resolve() function, required because Resolve_Exists=True in AMI file {amifilename}
		An Executable file <filename> does not define the AMI_GetResolve() function which is required because the associated AMI parameter file <amifilename> has defined the parameter Resolve_Exists as true
E4706	ALGMOD_ERR_106	Code file {filename} does not contain AMI_Resolve_Close() function, required because Resolve_Exists=True in AMI file {amifilename}
		An Executable file <filename> does not define the AMI_GetResolveClose() function which is required because the associated AMI parameter file <amifilename> has defined the parameter Resolve_Exists as true
E4707	ALGMOD_ERR_107	{paramname}: Format/Value should be specified
		When a parameter has Usage Out, Format/Value can be specified (but is optional). Default should not be specified.
E4708	ALGMOD_ERR_108	{filename}: Path cannot be specified in file name
		Referenced Executable and AMI parameter filenames should not have a path specified
E4709	ALGMOD_ERR_109	Reserved_Parameter {paramname} cannot be specified in the Model_Specific section in AMI version {amiversion}
		A Reserved Parameter <paramname> valid in AMI version <amiversion> was specified in the Model Specific section of an AMI file with version <amiversion>
E4710	ALGMOD_ERR_110	Reserved_Parameter {paramname} must be specified when {paramname} is specified

		A <paramname> must be specified if another <paramname> has been specified
E4711	ALGMOD_ERR_111	Reserved_Parameter {paramname} can only be specified when {paramname} is specified
		A <paramname> can only be specified if another <paramname> has already been specified
E4712	ALGMOD_ERR_112	Special_Parameter_Name {specialparamname} not found in Model_Specific section
		A special parameter name was not found in the Model Specific section
E4713	ALGMOD_ERR_113	Reserved_Parameters {paramname} and {paramname} cannot be specified together.
		These two parameter names cannot be specified simultaneously
E4714	ALGMOD_ERR_114	Ts4file {fileName} does not exist.
		The Ts4file fileName was not found
E4715	ALGMOD_ERR_115	{paramname}: Format Corner cannot be specified when Usage Out is specified.
		paramname has Usage Out but has Format Corner specified
C4716	ALGMOD_ERR_116	{paramname}: Value cannot be negative
		Rx_Receiver_Sensitivity cannot have negative values
E4717	ALGMOD_ERR_117	Reserved Parameters {param1} and {param2} must be specified together.
		Both Reserved Parameters <param1> and <param2> must be specified if any one of them is specified
E4718	ALGMOD_ERR_118	Reserved Parameter {param1} must return {param1value} when Reserved Parameter {param2} is specified.
		When a Reserved Parameter <param2> is specified then Reserved Parameter <param1> should have a value of <param1value>
E4719	ALGMOD_ERR_119	(line {linenum}) - Code file {codefile} does not contain AMI_Impulse() function, required because InitReturnsImpulse=True and BCI_Training_Mode is Impulse/Both in AMI file {amifile}
		In the code file <codefile> the AMI_Impulse() function was not found even though InitReturnsImpulse has a value of True and the BCI_Training_Mode has a value of "Impulse" or "Both" in the associated AMI file <amifile>
E4720	ALGMOD_ERR_120	{paramname}: At least {numvalues} values expected in List
		For Reserved Parameter <paramname> at least <numvalues> should be specified when the format is List
E4721	ALGMOD_ERR_121	Could not parse T4file {filename} for Number of Ports
		Could not parse the Ts4File <filename> to determine the number of ports
E4722	ALGMOD_ERR_122	Ts4file {filename} has {numports} ports, 4 expected
		The Ts4file <filename> has <numports> number of ports but at most 4 ports were expected
E4723	ALGMOD_ERR_123	Parameter '{paramname}': Duplicate value '{value}' found in List but the corresponding values in ListTip ('{listtip1}', '{listtip2}') are not the same
		A parameter <paramname> of list type has 2 values which are identical but the corresponding listtip values <listtip1>, <listtip2> are not the same
E4724	ALGMOD_ERR_124	{paramname}: Values should be > 1
		The parameter <paramname> should have values which are greater than 1
E4725	ALGMOD_ERR_125	{paramname}: Value should be a string containing at least 1 numeric value
		The parameter <paramname> should be of type string which consists of whitespace separated list of (at least 1) numeric values

E4726	ALGMOD_ERR_126	Tx_Port_Order can be specified only when both ts4file and Tx_V are specified
		Tx_Port_Order was defined without corresponding Ts4file and Tx_V Reserved Parameters
E4727	ALGMOD_ERR_127	Rx_Port_Order can be specified only when Direction is Rx and ts4file is also specified
		Rx_Port_Order was defined for a Direction Tx AMI file and without a corresponding Ts4file Reserved Parameter
E4750	CMPNTEMI_ERR_0	
		UNUSED: not used
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}) - EMI Component-scoped keyword not found under [Begin EMI Component].
		A [Begin EMI Component] keyword was found where it was not expected
E4756	CMPNTEMI_ERR_6	(line {linenum}) - EMI Component-scoped data line not found under [EMI Component].
		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 which 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 subparameter has no associated value specified
E4769	CMPNTEMI_ERR_19	(line {linenum}) - Incorrect Number of Line Items ({numberOfItemsFound}) For {paramName}: Expecting {numberOfItemsExpected}
		The subparameter 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 subparameter 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 subparameter 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 defined 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 subparameter 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 referenced 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

2.6.11 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 which 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: The Min corner value for [C Comp Corner] subparameter should be the smallest among all the corner values
W5009	CCORNER_ERR_9	(line {linenum}) - {paramName}: Max value is not the largest value listed
		UNUSED: The Max corner value for [C Comp Corner] subparameter should be the largest among all the corner values
E5010	CCORNER_ERR_10	Model {modelName}: Empty [C Comp Corner] section
		There were no data lines in a [C Comp Corner] section for model
C5011	CCORNER_ERR_11	Model {modelName}: [C Comp Corner] C_comp is specified along with at least one of the C_comp_* subparameters. The choice of which to use is left to the EDA tool.
		In model C_comp subparameter was specified in a [C Comp Corner] section even though the other subparameters 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 subparameter in a [C Comp Corner] section was less than 0
E5100	REPPIN_ERR_0	(line {linenum}) - Unable to allocate 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 <pinname> specified in a [Repeater Pin] section was not defined in the [Pin] section of Component <componentname>
E5106	REPPIN_ERR_6	Component '{componentname}': Repeater tx_non_inv_pin '{noninvpinname}' not previously declared in Pin section.
		The tx_non_inv_pin <noninvpinname> specified in a [Repeater Pin] section was not defined in the [Pin] section of Component <componentname>
W5107	REPPIN_ERR_7	Component '{componentname}': Repeater_Pin '{pinname}' is not unique.
		The same pin <pinname> is referenced more than once in the [Repeater Pin] section of Component <componentname>
E5108	REPPIN_ERR_8	Component '{componentname}': Repeater tx_non_inv_pin '{noninvpinname}' already in use as a Repeater_pin.
		The tx_non_inv_pin <noninvpinname> was previously defined as a pin in the [Repeater Pin] section of Component <componentname>
E5109	REPPIN_ERR_9	Component '{componentname}': Repeater_pin '{pinname}' already in use as an tx_non_inv_pin.
		The pin <pinname> was previously defined as a tx_non_inv_pin in the [Repeater Pin] section of Component <componentname>
E5110	REPPIN_ERR_10	Component '{componentname}': Repeater tx_non_inv_pin '{noninvpinname}' is not unique.
		The same tx_non_inv_pin <noninvpinname> is referenced more than once in the [Repeater Pin] section of Component <componentname>
E5111	REPPIN_ERR_11	Component '{componentname}': Repeater_Pin '{pinname}' is not previously declared in Diff Pin section.
		The pin <pinname> specified in a [Repeater Pin] section of component <componentname> 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 <noninvpinname> specified in a [Repeater Pin] section of component <componentname> 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 <pinname> specified in a [Repeater Pin] section of component <componentname> 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 Output_Diff
		The tx_non_inv_pin <noninvpinname> specified in a [Repeater Pin] section of component <componentname> is associated with a model which is not of type Output or Output_Diff
B5115	REPPIN_ERR_15	{fileName}:{linenum}:Unable to get IBIS?
		Program data structures are corrupt in program file <filename> at <linenum>
E5116	REPPIN_ERR_16	Component '{componentname}': Repeater_Pin '{pinname}' is associated with a model '{modelname}' which has no Algorithmic Model

		The pin <pinname> specified in the [Repeater Pin] section of component <componentname> is associated with a model <modelname> 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 <noninvpinname> specified in the [Repeater Pin] section of component <componentname> is associated with a model <modelname> 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 <pinname> specified in the [Repeater Pin] section of component <componentname> is associated with a model <modelname> whose [Algorithmic Model] refers to an AMI Parameter file <filename> which does not have the parameter Repeater_Type defined in it
B5200	PARAMFILE_ERR_0	{fileName}:{linenumber}:Unable to get IBIS.
		UNUSED: Program data structures are corrupt in program file <filename> at <linenumber>
B5201	PARAMFILE_ERR_1	Unable to allocate PFILE.
		UNUSED: The code failed to allocate memory
W5202	PARAMFILE_ERR_2	Parameter file name {fileName} does not seem to have an extension
E5203	PARAMFILE_ERR_3	(line {linenum}) - Parameter file name {fileName} invalid. '.ibs', '.ebd', '.ims' or '.pkg' extensions are not allowed
		UNUSED: The parameter file <filename> has an extension which is illegal
E5204	PARAMFILE_ERR_4	(line {linenum}) - Parameter file {fileName} not found.
		UNUSED: The parameter file <filename> could not be opened for parsing
E5205	PARAMFILE_ERR_5	Parameter file {fileName} : Expected a parenthesis or a branch or found an invalid parameter in a list
		The parameter file <fileName> is possibly empty or does not start with a parenthesis
E5206	PARAMFILE_ERR_6	(line {linenum}) - Parameter file {fileName} : Filename should not end with a dot '.'
		A parameter file <fileName> cannot end in a '.'
B5300	MPINS_ERR_0	Unable to Allocate Memory: {filename} {linenum}
		Memory allocation failed in program file <filename> at <linenumber>
E5301	MPINS_ERR_1	Unable to allocate 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 <keyName> should have had <numberOfItemExpected> items on the keyword line but only <numberOfItemsFound> were found
E5305	MPINS_ERR_5	[Merged Pins] Pin Name {pinName} over {maxLength} characters long
		The Pin <pinName> defined in [Merged Pins] is too long. Should be at most <maxLength> long

E5306	MPINS_ERR_6	Invalid [Merged Pins] Pin Name {pinName}. Reserved word.
E5307	MPINS_ERR_7	[Merged Pins] section already defined for Pin {pinName}
		A [Merged Pins] section already exists for Pin <pinName>
E5308	MPINS_ERR_8	Pin {mergedPinName} has already been connected to a Merging Pin {mergingPinName}
		The merged Pin <mergedPinName> is already connected to merging Pin <mergingPinName>
E5309	MPINS_ERR_9	Pin {pinName} cannot be connected to the Merging Pin {mergePinName} as it is defined in the [Pin Numbers] section
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 <filename> at <linenum>
B5402	IDLY_ERR_2	Should Not Be Here: {filename}, {linenum}
		The code has a bug in file <filename> at line <linenum>
B5403	IDLY_ERR_3	Unable to Parse {keyword}: {filename} {linenum}
		Could not parse keyword <keyword> at file <filename> at line <linenum>
E5404	IDLY_ERR_4	Incorrect Number of Line Items ({numberOfItemsFound}) For {keyName}: Expecting {numberOfItemsExpected}
		The <keyName> should have had <numberOfItemsExpected> items on the keyword line but only <numberOfItemsFound> 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 <paramname> (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'
E5408	IDLY_ERR_8	{V-T I-T}: Min value is not the smallest value listed
E5409	IDLY_ERR_9	{V-T I-T}: Max value is not the largest value listed
E5410	IDLY_ERR_10	{ } {modelOrSubmodel}: Empty [Initial_Delay] section defined on line {modelOrSubmodelName}
		An empty [Initial Delay] section was defined for <modelOrSubmodel> <modelOrSubmodelName> on line <linenum>
E5411	IDLY_ERR_11	[Initial_Delay] parameter {paramname}: {subparam} value cannot be negative
		The [Initial Delay] parameter <paramname> (V_T, I_T) has a <subparam>(Typ, Min, Max) which is negative

2.6.12 MESSAGE CODES 5500 TO 5999

Code	Symbol	Message/Comments
B5500	EXEFILE_ERR_0	{sourceFile}:{sourceLinenum}:Unable to get IBIS.
		Program data structures are corrupt in program file
B5501	EXEFILE_ERR_1	Unable to allocate EFILE.
		Memory allocation for a EFILE structure failed
E5502	EXEFILE_ERR_2	Code file {filename} not found.
		The code file '%s' was not found
W5503	EXEFILE_ERR_3	'{filename}' extension may be required.
		The code file <filename> may require a .so or .dll extension
E5600	CHKEXE_ERR_0	Unable to load code file {filename}: {errmsg}
		There was an error <errmsg> when loading the code file <filename> in memory
W5601	CHKEXE_ERR_1	Unable to lookup symbol {symbolname} in code file {filename}: {errmsg}
		There was an error <errmsg> when trying to locate a symbol <symbolname> in the code file <filename>
E5602	CHKEXE_ERR_2	Unable to unload code file {filename}: {errmsg}
		There was an error <errmsg> when unloading the code file <filename> from memory
E5700	DSPAD_ERR_0	(line {linenum}) - Extra data found: {data}
		Extraneous data was found while parsing a [Die Supply Pads] data line
E5701	DSPAD_ERR_1	(line {linenum}) - Missing pad name
		Die Pad name was not specified
E5702	DSPAD_ERR_2	(line {linenum}) - Missing signal_name
		Signal Name was not specified
E5703	DSPAD_ERR_3	(line {linenum}) - Duplicate pad name: {padname}
		Die Pad name was already specified
E5704	DSPAD_ERR_4	(line {linenum}) - Unable to allocate memory
		Memory allocation failed
W5705	DSPAD_ERR_5	(line {linenum}) - Possibly reserved word used as a '{itemname}': {itemvalue}
		The value <itemvalue> specified for Item <itemname> is a reserved word
E5706	DSPAD_ERR_6	Component {compname}: Die Supply Pad '{padname}': Signal_name {signalname} is not associated with a Pin with Model POWER or GND
		In Component <compname>, the Die Supply Pad <padname> is associated with a signal_name <signalname> which is not POWER or GND
E5800	BUSLABEL_ERR_0	(line {linenum}) - Extra data found: {data}
		Extraneous data was found while parsing a [Bus Label] line
E5801	BUSLABEL_ERR_1	(line {linenum}) - Missing bus label
		Bus label was not specified
E5802	BUSLABEL_ERR_2	(line {linenum}) - Missing signal_name

		Signal Name was not specified
E5803	BUSLABEL_ERR_3	(line {linenum}) - Duplicate bus label: {padname}
		Bus Label was already specified
E5804	BUSLABEL_ERR_4	(line {linenum}) - Unable to allocate memory
		Memory allocation failed
W5805	BUSLABEL_ERR_5	(line {linenum}) - Possibly reserved word used as a '{itemname}': {itemvalue}
		The value <itemvalue> specified for Item <itemname> is a reserved word
E5806	BUSLABEL_ERR_6	Component {componentname}: Bus Label '{buslabelname}': Signal_name {signalname} is not associated with a Pin with Model POWER or GND
		A <buslabelname> has a <signalname> which is not of type POWER or GND in component <componentname>
E5807	BUSLABEL_ERR_7	Component {componentname}: signal_name {signalname1} (associated with Pad {padname}, bus_label {busname}) conflicts with signal_name {signalname2} also associated with bus_label {busname2}
		A Signal name <signalname1> (associated with a particular Pad <dspadname>, Bus Label <buslabel>) conflicts with <signalname2> also associated with Bus Label <buslabel> in component <componentname>
E5808	BUSLABEL_ERR_8	Component {componentname}: signal_name {signalname1} (associated with Pin {pinname}, {refname} {impedance}) conflicts with signal_name {signalname2} also associated with bus_label {buslabel}
		A SignalName <signalname1> is associated with Pin <pinname> whose Reference <ref> is <refname> and it conflicts with <signalname2> also associated with buslabel <refname> in component <componentname>
E5809	BUSLABEL_ERR_9	Component {componentname}: signal_name {signalname1} (associated with Pin {busname}) conflicts with signal_name {signalname2} (associated with bus {busname2})
		Signal name <signalname1> (associated with Pin <pinname>) conflicts with <signalname2> (associated with bus <signalname1>) in component <componentname>
E5900	IMG_ERR_0	(line {linenum}) - Unable to create new Interconnect Model Set Entry.
		Memory allocation failed at linenum
E5901	IMG_ERR_1	(line {linenum}) - Incorrect Number of Line Items ({numitems}) For Keyword {keywordname}: Expecting {expectednumitems}
		For keyword <keywordname>, <numitems> tokens were found while <expectednumitems> tokens were expected
B5902	IMG_ERR_2	(line {linenum}) - Unable to Parse {keywordname}: {filename} {linenum}
		Error in parsing keyword <keywordname> at <linenum> in file <filename>
E5903	IMG_ERR_3	(line {linenum}) - Interconnect Model Group Keyword: Missing Interconnect Model Set name
		Interconnect Model Set Name was not defined in an Interconnect Model Group
E5904	IMG_ERR_4	(line {linenum}) - Interconnect Model Set Name Over {length} Characters Long
		An Interconnect Model Set Name was more than the expected <length>
W5905	IMG_ERR_5	(line {linenum}) - Interconnect Model Set Name {name} is a reserved word
		A reserved word was used as an Interconnect Model Set <name>
E5906	IMG_ERR_6	(line {linenum}) - Interconnect Model Set '{interconnectmodelsetname}'. already used in this Interconnect Model Group
		The <interconnectmodelsetname> is already used in the current Interconnect Model Group

E5907	IMG_ERR_7	(line {linenum}) - Interconnect Model Group: '{interconnectmodelgroupname}' has no Interconnect Model Sets defined
		The <interconnectmodelgroup> has no Interconnect Model Sets defined
E5908	IMG_ERR_8	[Component] {componentname} [Interconnect Model Group] {interconnectmodelgroupname}: {terminaltype} Pin {pinname} appears in a terminal without the Aggressor_Only attribute in more than one contained model in the group
		In Component <componentname> and in <interconnectmodelgroupname> a Pin <pinname> of <terminaltype> appears in a terminal without the Aggressor_Only attribute in more than one contained model in the group
E5909	IMG_ERR_9	[Component] {componentname} [Interconnect Model Group] {interconnectmodelgroupname} [Interconnect Model Set] {interconnectmodelsetname}: {terminaltype} Pin {pinname} appears in a terminal without the Aggressor_Only attribute in more than one contained model in the set
E5910	IMG_ERR_10	[Component] {componentname} [Interconnect Model Group] {interconnectmodelgroupname} : For I/O terminals only a pin to die pad, a pin to buffer or a die pad to buffer interface can be specified in a group
		For I/O terminals only a pin to die pad, a pin to buffer or a die pad to buffer interface can be specified in a group but it is not so in <interconnectmodelgroupname> of component <componentname>
E5911	IMG_ERR_11	[Component] {componentname} [Interconnect Model Group] {interconnectmodelgroupname} : For Rail terminals all three interface(pin to die pad, pin to buffer or die pad to buffer) cannot be specified in the same group
E5912	IMG_ERR_12	[Component] {componentname} [Interconnect Model Group] {interconnectmodelgroupname} : '{interfacename1}' interface cannot be specified if a '{interfacename2}' interface has already been specified in a group
		Interfaces <interface1> and <interface2> cannot be specified together in <interconnectmodelgroup> in <componentname>

2.6.13 MESSAGE CODES 6000 TO 6499

Code	Symbol	Message/Comments
B6000	IMSMDL_ERR_0	(line {linenum}) - {filename}:{linenum}:IMSMDL_Init unable to get IBIS?
		Internal Error at line <linenum> in file <filename>
E6001	IMSMDL_ERR_1	(line {linenum}) - Interconnect Model Set-scoped keyword not found under [Interconnect Model Set].
		A keyword associated with an Interconnect Model Set was found without an enclosing Interconnect Model Set definition
E6002	IMSMDL_ERR_2	(line {linenum}) - Interconnect Model Set-scoped data line not found under [Interconnect Model Set].
		A data line was found with no enclosing keyword
B6003	IMSMDL_ERR_3	(line {linenum}) - {filename}:{linenum}:Illegal keyword.
		An illegal keyword was found at line <linenum> in file <filename>
E6004	IMSMDL_ERR_4	(line {linenum}) - Either File_TS or File_IBIS-ISS must be defined before Number_of_terminals is defined
		File_TS or File_IBIS-ISS must be specified before the number of terminals is specified
B6005	IMSMDL_ERR_5	(line {linenum}) - {filename}:{linenum}:Illegal line type received.
		An incorrect data line was found at line <linenum> in file <filename>
E6006	IMSMDL_ERR_6	(line {linenum}) - Unable to create new '{name}'.
		Memory allocation when trying to allocate a structure for <name>
E6007	IMSMDL_ERR_7	(line {linenum}) - Keyword '{keywordname}' expected
		Keyword <keywordname> was expected
E6008	IMSMDL_ERR_8	(line {linenum}) - {reservedword}: Reserved word used for {identifier}
		A reserved word <reservedword> has been used as the value of <identifier>
E6009	IMSMDL_ERR_9	(line {linenum}) - Extraneous data on '{keywordname}' line.
		Extra data was found on data line for Keyword <keywordname>
B6010	IMSMDL_ERR_10	(line {linenum}) - Unable to Parse {text}: {filename} {linenum}
		There was an error parsing data <text> at linenum <linenum> in file <filename>
B6011	IMSMDL_ERR_11	(line {linenum}) - Should not be here: {fileName}, {linenum}
		There is a bug at line <linenum> in file <filename>
E6012	IMSMDL_ERR_12	(line {linenum}) - Could not parse '{paramname}' line
		There was an error parsing parameter <paramname>
E6013	IMSMDL_ERR_13	(line {linenum}) - Param: Illegal {identifier}: '{formatname}'
		In incorrect format <formatname> was specified for the format <identifier>
E6014	IMSMDL_ERR_14	(line {linenum}) - {paramorsubparam} '{paramname}' already defined
		A <paramorsubparam> <paramname> is already defined
E6015	IMSMDL_ERR_15	(line {linenum.}) - {Subparam}: already defined
		The subparameter <subparam> is already defined

E6016	IMSMDL_ERR_16	(line {linenum}) - File '{filename}' does not exist
		File <filename> was not found
E6017	IMSMDL_ERR_17	(line {linenum}) - {fileibisssorfilets} cannot be specified when {fileibisssorfilets2} is already specified
		File_TS and File_IBIS-ISS cannot be specified together
E6018	IMSMDL_ERR_18	(line {linenum}) - subparameter Number_of_terminals should be specified after all other subparameters have been specified
		The Number_Of_Terminals should be the last subparameter in an Interconnect Model definition
E6019	IMSMDL_ERR_19	(line {linenum}) - Missing '='
		An equal sign was expected
W6020	IMSMDL_ERR_20	(line {linenum}) - Suspicious {value} value.
		The number <value> has some syntax issues
E6021	IMSMDL_ERR_21	(line {linenum}) - Bad {value} value.
		The number <value> has a bad format
E6022	IMSMDL_ERR_22	(line {linenum}) - {itemname} cannot be less than or equal to 0.
		The value of Item <itemname> cannot be less than 0
E6023	IMSMDL_ERR_23	(line {linenum}) - Number_of_terminals should be at least 2 when File_TS is specified.
		At least two terminals have to be specified for TS File type in an Interconnect Model
E6024	IMSMDL_ERR_24	(line {linenum}) - Terminal {terminal} is larger than the Number_of_terminals {numberofterminals}
		A terminal number <terminal> is greater than the total <numberof terminals> in an Interconnect Model
E6025	IMSMDL_ERR_25	(line {linenum}) - Terminal {terminal} is already defined
		A terminal number <terminal> has been defined more than once in an Interconnect Model
E6026	IMSMDL_ERR_26	(line {linenum}) - Unknown {itemname} {value}
		The Item <itemname> has a value <value> which is not among the list of permissible values
E6027	IMSMDL_ERR_27	(line {linenum}) - {expectedvalue} Expected but {actualvalue} Found
		The string <expectedvalue> was not found, instead the string <actualvalue> was found
E6028	IMSMDL_ERR_28	(line {linenum}) - When File_TS is specified, A_gnd can only be specified with the last terminal
		The TerminalType A_gnd can only be specified with the last terminal when File_TS is specified
E6029	IMSMDL_ERR_29	(line {linenum}) - {closingkeyword} found without corresponding {openingkeyword}
		An end keyword <closingkeyword> was found without a corresponding start keyword <openingkeyword>
E6030	IMSMDL_ERR_30	(line {linenum}) - Only allowed qualifier(s) is(are): {qualifiernames}
		A qualifier was specified which was not in the list of allowed <qualifiernames> for this TerminalType
E6031	IMSMDL_ERR_31	(line {linenum}) - {value} is not allowed for {terminaltype}
		The value <value> is not allowed for the Terminal_type <terminalType>
E6032	IMSMDL_ERR_32	No [Interconnect Model] defined in [Interconnect Model Set] {interconnectmodelset}
		An empty Interconnect Model Set <interconnectmodelset> containing no Interconnect Models was found

E6033	IMSMDL_ERR_33	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Either File_TS or File_IBIS-ISS must be defined
		The Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> has neither File_TS nor File_IBIS-ISS subparameters defined
E6034	IMSMDL_ERR_34	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Unused port termination cannot be specified when File_IBIS-ISS is specified
		Unused port termination cannot be specified since File_IBIS-ISS subparameter is specified in <interconnectmodel> in <interconnectmodelset>
E6035	IMSMDL_ERR_35	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: No terminals were specified
		There were no Terminal definitions in Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset>
E6036	IMSMDL_ERR_36	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Terminal {terminal1} and Terminal {terminal2} both don't have Aggressor_Only defined though the pin_name is same
E6037	IMSMDL_ERR_37	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Pin interface, Pad interface and Buffer interface cannot be specified together
		Pin interface, Pad interface and Buffer interface were specified simultaneously in Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset>
E6038	IMSMDL_ERR_38	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Model has a single {interface} only and only Rail terminal type is allowed
		Only a single Interface <interface> (Pad, Pin or Buffer) is defined in Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> so only Rail terminals can be specified
E6039	IMSMDL_ERR_39	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Terminals {terminal1} and {terminal2} are duplicates
		Terminal <terminal1> and Terminal <terminal2> have identical definitions in Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset>
E6040	IMSMDL_ERR_40	(line {linenum}) - Value for keyword '{keywordname}' not specified.
		No value was specified for keyword <keywordname>
E6041	IMSMDL_ERR_41	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: At least two interfaces for Pin '{pinname}' as an I/O expected
		I/O Pin <pinname> should be used in at least 2 of the interfaces (Pad, Pin, Buffer) in Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset>
E6042	IMSMDL_ERR_42	[Component] {comname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : {qualifiername} '{qualifier}' not found .ibs file
		In Component <comname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel> the Qualifier <qualifier> has a value <qualifier> which is not found in the .ibs file
E6043	IMSMDL_ERR_43	[Component] {comname} [Interconnect Model Group] {interconnectmodelgroup}: [Interconnect Model Set] {interconnectmodelset} not found in {filename}
		In Component <comname>, Interconnect Model Group <interconnectmodelgroup> the Interconnect Model Set <interconnectmodelset> referenced is not found in the .ibs file <filename>
C6044	IMSMDL_ERR_44	[Component] {comname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : NC Pin '{pinname}' used as an I/O

		I/O Pin <pinname> referenced in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel> has a model type of NC
E6045	IMSMDL_ERR_45	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Terminal {terminal} is not defined
		Terminal number <terminal> was not defined in Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset>
E6046	IMSMDL_ERR_46	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Buffer Rail Terminal {terminal1} with pin_name {pinname} whose {refname} is {refbus} duplicates Terminal {terminal2} with signal_name {signalname} }
		Buffer Rail Terminal <terminal1> with pin_name <pinname> whose Reference <refname> is <refbus> duplicates signal_name <signal_name> associated with Terminal <terminal2> in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6047	IMSMDL_ERR_47	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Buffer Rail Terminal {terminal1} with pin_name {pinname} whose {refname} is {refbus} duplicates Terminal {terminal2} with bus_label {buslabel} }
		Buffer Rail Terminal <terminal1> with pin_name <pinname> whose Reference <refname> is <refbus> duplicates Terminal <terminal2> with bus_label <buslabel> in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6048	IMSMDL_ERR_48	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Pad Rail Terminal {terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with bus_label {buslabel}
		Pad Rail Terminal <terminal1> with signal_name <signalname> duplicates Terminal <terminal2> with bus_label <buslabel> in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6049	IMSMDL_ERR_49	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Pad Rail Terminal {terminal1} with signal_name {signalname1} duplicates Terminal {terminal2} with pad_name {signalname2}
		Pad Rail Terminal <terminal1> with signal_name <signalname1> duplicates Terminal <terminal2> with signal_name <signalname2> in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6050	IMSMDL_ERR_50	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Pad Rail Terminal {terminal1} with bus_label {buslabel} duplicates Terminal {terminal2} with pad_name {padname}
		Pad Rail Terminal <terminal1> with bus_label <buslabel> duplicates Terminal <terminal2> with pad_name <padname> in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6051	IMSMDL_ERR_51	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Pin Rail Terminal {terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with bus_label {buslabel}
		Pin Rail Terminal <terminal1> with signal_name <signalname> duplicates Terminal <terminal2> with bus_label <buslabel> in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6052	IMSMDL_ERR_52	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Pin Rail Terminal

		{terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with pin_name {pinname}
		Pin Rail Terminal <terminal1> with signal_name <signalname> duplicates Terminal <terminal2> with pin_name <pinname> which has the same signal_name
E6053	IMSMDL_ERR_53	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Pin Rail Terminal {terminal1} with bus_label {buslabel} duplicates Terminal {terminal2} with pin_name {pinname}
		Pin Rail Terminal <terminal1> with bus_label <buslabel> duplicates Terminal <terminal2> with pin_name <pinname> as both are associated with the same signal_name in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6054	IMSMDL_ERR_54	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Buffer Rail Terminal {terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with bus_label {buslabel}
		Buffer Rail Terminal <terminal1> with signal_name <signalname> duplicates Terminal <terminal2> with bus_label <buslabel> which is associated with the same signal_name in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6055	IMSMDL_ERR_55	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : {interfacename} Terminal {terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with the same signal_name
		At Interface <interfacename> Terminal <terminal1> with signal_name <signalname> duplicates Terminal <terminal2> with the same signal_name in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6056	IMSMDL_ERR_56	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : {interfacename} Terminal {terminal1} with bus_label {buslabel} duplicates Terminal {terminal2} with the same bus_label
		At Interface <interfacename> Terminal <terminal1> with bus_label <buslabel> duplicates Terminal <terminal2> with the same bus_label in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6057	IMSMDL_ERR_57	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : {interfacename} Terminal {terminal1} with pin_name {pinname} duplicates Terminal {terminal2} with the same pin_name
		At Interface <interfacename> Terminal <terminal1> with pin_name <pinname> duplicates Terminal <terminal2> with the same pin_name in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6058	IMSMDL_ERR_58	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : {interfacename} Terminal {terminal1} with pad_name {padname} duplicates Terminal {terminal2} with the same pad_name
		At Interface <interfacename> Terminal <terminal1> with pad_name <padname> duplicates Terminal <terminal2> with the same pad_name in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
W6059	IMSMDL_ERR_59	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Buffer Rail Terminal {terminal} has a {refname} specified for Pin {pinname} but the IBIS file has no corresponding Pin Mapping
		Buffer Rail Terminal <terminal> has a Reference <refname> specified for Pin <pinname> but the

		IBIS file has no corresponding Pin Mapping in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6060	IMSMDL_ERR_60	Interconnect Model Set '{interconnectmodelset}' is already defined
		The same Interconnect Model Set <interconnectmodelset> is defined more than once
W6061	IMSMDL_ERR_61	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: All pin_names considered Aggressor_Only, victim cannot be identified and crosstalk may be incomplete
		All the pins in InterconnectModelSet<interconnectmodelset> InterconnectModel <interconnectmodel> have been marked Aggressor_Only so no victims could be identified
C6062	IMSMDL_ERR_62	[Interconnect Model Set] {interconnectmodelset}: [Interconnect Model] {interconnectmodel1} and [Interconnect Model] {interconnectmodel2} have identical pin names that will be connected
		Interconnect Models <interconnectmodel1> and <interconnectmodel2> in Interconnect Model Set <interconnectmodelset> seem to have the same exact definition
C6063	IMSMDL_ERR_63	[Component] {componentname} [Interconnect Model Group] {interconnectmodelgroup} : [Interconnect Model Set] {interconnectmodelset1} [Interconnect Model] {interconnectmodel1} and [Interconnect Model Set] {interconnectmodelset2} [Interconnect Model] {interconnectmodel2} have identical pin names that will be connected
		Interconnect Model <interconnectmodel1> in InterconnectModelSet <interconnectmodelset1> and <interconnectmodel2> in <interconnectmodelset2> in <interconnectmodelgroup> in Component <componentname> seem to have the same exact definition
E6064	IMSMDL_ERR_64	All pin_names have been considered Aggressor_Only, a victim cannot be identified and crosstalk may be incomplete for Component {compname}, Interconnect Model Group {interconnectmodelgroup}, Interconnect Model Set {interconnectmodelset}, Interconnect Model {interconnectmodel}
		All pin_names have been considered Aggressor_Only, a victim cannot be identified and crosstalk may be incomplete for Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6065	IMSMDL_ERR_65	All pin_names have been considered Aggressor_Only, a victim cannot be identified and full path crosstalk may be incomplete for Component {compname}, Interconnect Model Group {interconnectmodelgroup}, Interconnect Model Set {interconnectmodelset}, Interconnect Model {interconnectmodel}
		All pin_names have been considered Aggressor_Only, a victim cannot be identified and full path crosstalk may be incomplete for Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6066	IMSMDL_ERR_66	(line {linenum}) - Interconnect Model '{interconnectmodel}' is duplicated within the Interconnect Model Set '{interconnectmodelset}'.
		Interconnect Model <interconnectmodel> is defined more than once in Interconnect Model Set <interconnectmodelset>
E6067	IMSMDL_ERR_67	[Component] {compname} [Interconnect Model Group] {interconnectmodelgroup} [Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel} : Buffer Rail Terminal {terminal1} with pin_name {pinname} duplicates Terminal {terminal2} with the same pin_name
		Buffer Rail Terminal <terminal1> with pin_name <pinname> duplicates Terminal <terminal2> with the same pin_name in Component <compname>, Interconnect Model Group <interconnectmodelgroup>, Interconnect Model Set <interconnectmodelset>, Interconnect Model <interconnectmodel>
E6068	IMSMDL_ERR_68	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: When File_TS is specified, at least 2 terminal lines should be specified
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> has less than 2 terminal lines but File_TS has been specified

E6069	IMSMDL_ERR_69	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Unused port termination cannot be specified when all the terminals have been specified
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> has Unused_port_termination specified even though all terminals have been specified
E6070	IMSMDL_ERR_70	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Unused port termination should be specified when all the terminals have not been specified
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> does not have Unused_port_termination specified even though all terminals have not been specified
C6071	IMSMDL_ERR_71	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: {numberofterminallines} terminals out of {numberofterminals} have been specified
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> has only <numberofterminallines> specified which is less than the <numberofterminals> specified
E6072	IMSMDL_ERR_72	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Terminal {terminalnumber} must be specified
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> does not have the last terminal specified though File_TS has been specified
E6073	IMSMDL_ERR_73	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: The last terminal {terminalnumber} cannot be of type I/O for File_TS
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> should have the last terminal as a Rail type since File_TS has been specified
E6074	IMSMDL_ERR_74	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Number of terminals cannot be 0
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> has no terminals specified
E6075	IMSMDL_ERR_75	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_IBIS-ISS {issfile}: No of Terminals {numterminals} does not match the number of nodes {numnodes} in Subckt {subcktname}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have the same number of nodes <numnodes> as the number of terminals <numterminals>
E6076	IMSMDL_ERR_76	[Interconnect Model Set] {emdsetname} [Interconnect Model] {emdmodelname}: File_IBIS-ISS {issfile}: Subckt {subcktname} has invalid node {node}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has an invalid node <node>
E6077	IMSMDL_ERR_77	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_IBIS-ISS {issfile}: Parameter {paramname} is not {paramtype} type in Subckt {subcktname}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a subcircuit <subcktname> in IBIS-ISS file <issfile> whose parameter <paramname> is not of type <paramtype>
E6078	IMSMDL_ERR_78	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_IBIS-ISS {issfile}: {paramname} is not defined as a parameter in Subckt {subcktname}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have a parameter <paramname> defined
E6079	IMSMDL_ERR_79	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_IBIS-ISS {issfile}: Unable to parse for Subckt {subcktname}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which could not be parsed
E6080	IMSMDL_ERR_80	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_TS

		{tsfile}: Unable to parse for number of Ports
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a File_TS <tsfile> which could not be parsed for [Number of Ports]
E6081	IMSMDL_ERR_81	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_TS {tsfile}: Number of Ports {numports} does not match the number of Terminals {numterminals}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a File_TS <tsfile> in which the [Number of Ports] does not match the number of terminals defined
W6082	IMSMDL_ERR_82	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: File_IBIS-ISS {issfile}: Parameter {paramname} is defined with a difference case as '{paramvalue}' in Subckt {subcktname}
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has parameter <paramname> defined with a different case as <paramvalue>
E6083	IMSMDL_ERR_83	Mandatory keyword [Interconnect Model Set] not found
		An [Interconnect Model Set] section is mandatory in a .ims file
E6084	IMSMDL_ERR_84	[Interconnect Model Set] {interconnectmodelset} [Interconnect Model] {interconnectmodel}: Params cannot be specified when File_TS is specified
		Interconnect Model <interconnectmodel> in Interconnect Model Set <interconnectmodelset> has parameters specified even though File_TS was specified
C6085	IMSMDL_ERR_85	One or more Interconnect Model Sets is not referenced by an Interconnect Model Group
		Some Interconnect Model Sets are never referenced by an Interconnect Model Group
B6200	IMSFILE_ERR_0	{filename}:{linenum}:Unable to get IBIS.
		Internal Error at line <linenum> in file <filename>
B6201	IMSFILE_ERR_1	Unable to allocate IFILE.
		Memory allocation failed
E6202	IMSFILE_ERR_2	Interconnect Model file name {filename} does not seem to have an extension
		<filename> has no extension specified
E6203	IMSFILE_ERR_3	Interconnect Model file name {filename} invalid. Should have '.ims' extension
		Extension '.ims' was missing in <filename>
E6204	IMSFILE_ERR_4	Interconnect Model file {filename} not found.
		The interconnect model file <filename> was not found
E6300	CLOCKPINS_ERR_0	(line {linenum}) - Unable to allocate CLOCKPINS
		Memory allocation failed
E6301	CLOCKPINS_ERR_1	(line {linenum}) - Too many Clock Pins data columns.
		Too many entries were specified on the data line
E6302	CLOCKPINS_ERR_2	(line {linenum}) - No ClockPins column entry.
		The clock pin entry was not found on the data line
E6303	CLOCKPINS_ERR_3	(line {linenum}) - No Clocked Pin column entry.
		The clocked pin entry was not found on the data line
E6304	CLOCKPINS_ERR_4	(line {linenum}) - Clock Pin column pin same as Clocked Pin column pin.

		The same Pin has been specified as a clock pin as well as a clocked pin
E6305	CLOCKPINS_ERR_5	(line {linenum}) - No Relationship column entry.
		The relationship column entry was not specified on the data line
E6306	CLOCKPINS_ERR_6	(line {linenum}) - Unknown relationship '{relationship}'. Only 'Unspecified' is allowed
		An unknown relationship <relationship> was specified
E6307	CLOCKPINS_ERR_7	Component '{compname}': {clockpinOrclockedPin} {pinname} is associated with an inverting Diff_Pin
		A clockpin <pinname> or clockedpin<pinname> is associated with an inverting Diff_Pin in component <compname>
E6308	CLOCKPINS_ERR_8	Component '{compname}': Clocked Pin '{clockedpinname}' is defined more than once
		The clockedpin <clockedpinname> occurs more than once in component <compname>
E6309	CLOCKPINS_ERR_9	Component '{compname}': {clockPinOrclockedPin} {pinname} is associated with a Model Selector '{modelselectorname}' whose models are of type Series, Series_Switch or Terminator
		The clockpin <pinname> or clockedpin<pinname> is associated with a model selector <modelselectorname> whose referenced model types are Series, Series_Switch or Terminator in component <compname>
E6310	CLOCKPINS_ERR_10	Component '{compname}': {clockPinOrClockedPin} '{pinname}' not previously declared in Pin section.
		The clockpin <pinname> or clockedpin<pinname> was not defined as a Pin in component <compname>
E6311	CLOCKPINS_ERR_11	Component '{compname}': {clockPinOrclockedPin} {pinname} is associated with a model '{modelname}' whose type is Series, Series_Switch or Terminator
		The clockpin <pinname> or clockedpin<pinname> is associated with a model <modelname> whose is type is Series, Series_Switch or Terminator in component <compname>
E6312	CLOCKPINS_ERR_12	Component '{compname}': ClockPin {clockpinname} and ClockedPin {clockedpinname} are cross referenced
		The clockpin <clockpinname> and clockedpin <clockedpinname> reference each other in component <compname>
B6400	EMDSET_ERR_0	{filename}:{linenum}:EMDSET_Init unable to get IBIS?
		Program data structures are corrupt in program file <filename> at <linenum>
E6401	EMDSET_ERR_1	(line {linenum}) - EMD Set-scoped keyword not found under [EMD Set].
		An [EMD Set] associated keyword was not defined in a [EMD Set] section
E6402	EMDSET_ERR_2	(line {linenum}) - EMD Set-scoped data line not found under [EMD Set].
		An [EMD Set] associated data line was not defined in a [EMD Set] section
B6403	EMDSET_ERR_3	{filename}:{linenum}:Illegal keyword.
		A keyword related bug was found in program file <filename> at <linenum>
E6404	EMDSET_ERR_4	(line {linenum}) - Either File_TS or File_IBIS-ISS must be defined before Number_of_terminals is defined
		File_TS or File_IBIS-ISS must be specified before the number of terminals is specified in an [EMD Model]
B6405	EMDSET_ERR_5	{filename}:{linenum}:Illegal line type received.
		A line type related bug was found in program file <filename> at <linenum>
E6406	EMDSET_ERR_6	(line {linenum}) - Unable to create new '{structname}'.

		Memory allocation for structure <structname> failed
E6407	EMDSET_ERR_7	(line {linenum}) - Keyword '{keywordname}' expected
		Keyword <keywordname> was expected
E6408	EMDSET_ERR_8	Duplicate '{keywordname}' keyword found.
		UNUSED: Keyword <keywordname> was already defined
E6409	EMDSET_ERR_9	(line {linenum}) - Extraneous data on '{identifier}' line.
		There is extraneous data on the data line for <identifier>
B6410	EMDSET_ERR_10	Unable to Parse {linenum}: {codefile} {codeline}
		There is a parsing bug at filename <filename> at <linenum>
B6411	EMDSET_ERR_11	Should not be here: {filename}, {linenum}
		There is a program bug at filename <filename> at <linenum>
E6412	EMDSET_ERR_12	(line {linenum}) - Could not parse '{identifier}' line
		There was an error parsing the data line associated with <identifier>
E6413	EMDSET_ERR_13	(line {linenum}) - Param: Illegal format for {parameterValueORparameterFormat}: '{value}'
		The parameter value <value> or parameter format <value> is incorrect
E6414	EMDSET_ERR_14	(line {linenum}) - {identifier} '{subidentifier}' already defined
		The <subidentifier> associated with <identifier> is already defined
E6415	EMDSET_ERR_15	(line {linenum}) - {identifier}: already defined
		<identifier> is already defined
E6416	EMDSET_ERR_16	(line {linenum}) - File '{filename}' does not exist
		The referenced file <filename> was not found
E6417	EMDSET_ERR_17	(line {linenum}) - {identifier1} cannot be specified when {identifier2} is already specified
		<identifier1> should not be defined when <identifier2> is defined
E6418	EMDSET_ERR_18	(line {linenum}) - Subparameter Number_of_terminals should be specified after all other subparameters have been specified
		Number_of_terminals should be defined after all subparameters in a [EMD Model] section
E6419	EMDSET_ERR_19	(line {linenum}) - Missing '='
		The assignment operator is missing
W6420	EMDSET_ERR_20	(line {linenum}) - Suspicious {value} value.
		The value <value> does not seem in the correct format
E6421	EMDSET_ERR_21	(line {linenum}) - Bad {value} value.
		The value <value> does not have the right format
E6422	EMDSET_ERR_22	(line {linenum}) - {identifier} cannot be less than or equal to 0.
		The value of <identifier> cannot be 0 or negative
E6423	EMDSET_ERR_23	(line {linenum}) - Number_of_terminals should be at least 2 when File_TS is specified.
		File_TS requires at least 2 terminals to be specified in an [EMD Model] section
E6424	EMDSET_ERR_24	(line {linenum}) - Terminal {terminalnum} is larger than the Number_of_terminals {numterminals}

		The terminal number <terminalnum> is greater than the total number of terminals <numterminals>
E6425	EMDSET_ERR_25	(line {linenum}) - Terminal {terminalnum} is already defined
		The terminal number <terminalnum> is already defined
E6426	EMDSET_ERR_26	(line {linenum}) - Unknown {identifier} {value}
		<identifier> has an unknown value <value>
E6427	EMDSET_ERR_27	(line {linenum}) - {identifier1} Expected but {identifier2} Found
		<identifier1> was expected by <identifier2> was found
E6428	EMDSET_ERR_28	(line {linenum}) - When File_TS is specified, A_gnd can only be specified with the last terminal
		When File_TS is specified in an [EMD Model], A_gnd can only be associated with the last terminal
E6429	EMDSET_ERR_29	(line {linenum}) - {identifier1} found without corresponding {identifier2}
		keyword <identifier1> was found without a corresponding keyword <identifier2>
E6430	EMDSET_ERR_30	(line {linenum}) - Only allowed qualifier(s) is(are): {qualifiers}
		Only qualifier/qualifiers <qualifiers> may be associated with a terminal in the [EMD Model]
E6431	EMDSET_ERR_31	(line {linenum}) - {identifier1} is not allowed for {identifier2}
		<identifier1> cannot be specified with <identifier2>
E6432	EMDSET_ERR_32	No [EMD Model] defined in [EMD Set] {emdsetname}
		The [EMD Set] <emdsetname> has no [EMD Models] defined
E6433	EMDSET_ERR_33	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Either File_TS or File_IBIS-ISS must be defined
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has neither File_TS nor File_IBIS-ISS defined
E6434	EMDSET_ERR_34	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Unused port termination cannot be specified when File_IBIS-ISS is specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has Unused_port_termination specified even though File_IBIS-ISS has been defined
E6435	EMDSET_ERR_35	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: No terminals were specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has no terminals defined
E6436	EMDSET_ERR_36	(line {linenum}) - [EMD Set] {emdsetname} is duplicated within the file
		The [EMD Set] <emdsetname> has been defined more than once
E6437	EMDSET_ERR_37	(line {linenum}) - [EMD Model] '{emdsetname}' is duplicated within the [EMD Set] '{emdmodelname}'.
		The [EMD Model] <emdmodelname> has been defined more than once in [EMD Set] <emdsetname>
E6438	EMDSET_ERR_38	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Number of terminals cannot be 0
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has 0 number of terminals
E6439	EMDSET_ERR_39	[EMD Set] {emdsetname} [EMD Model] {emdmodelname} : Terminal {terminalnum} is not defined
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> does not have terminal number <terminalnum> defined (although File_IBIS-ISS has been specified)
E6440	EMDSET_ERR_40	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: When File_TS is specified, at least 2 terminal lines should be specified

		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> should have at least 2 terminals specified as File_TS has also been specified
E6441	EMDSET_ERR_41	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Unused port termination cannot be specified when all the terminals have been specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has all terminals specified, so Unused_port_termination should not have been specified
E6442	EMDSET_ERR_42	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Unused port termination should be specified when all the terminals have not been specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> does not have all terminals specified, so Unused_port_termination should have been specified
C6443	EMDSET_ERR_43	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: {numterminalsspecified} terminals out of {numterminals} have been specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has <numterminalsspecified> defined out of a total of <numterminals>
E6444	EMDSET_ERR_44	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Terminal {terminalnum} must be specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> does not have the last terminal <terminalnum> specified (though File_TS has been specified)
E6445	EMDSET_ERR_45	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: The last terminal {terminalnum} cannot be of type I/O for File_TS
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has the last terminal <terminalnum> specified as an I/O
E6446	EMDSET_ERR_46	(line {linenum}) - {keywordname}: Missing Name
		The section corresponding to keyword <keywordname> does not have an associated name
W6447	EMDSET_ERR_47	{reservedword}: Reserved word used for {identifier}
		The reserved word <reservedword> was used for the value of <identifier>
E6448	EMDSET_ERR_48	(line {linenum}) - {identifier} {value} too long (maximum {maxlen} characters allowed). Will be truncated
		<identifier> has a value <value> which is too long. Only <maxlen> characters are allowed.
E6449	EMDSET_ERR_49	(line {linenum}) - Designator reference cannot be '*' when Terminal_type is Pin_I/O
		The character '*' was used as a Designator Reference which is not allowed for terminals whose type is Pin_I/O
E6450	EMDSET_ERR_50	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Terminals {terminalnum1} and {terminalnum2} are duplicates
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has identical terminals <terminalnum1> and <terminalnum2>
W6451	EMDSET_ERR_51	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: All pin_names considered Aggressor_Only, victim cannot be identified and crosstalk may be incomplete
		All the pins in [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> have been marked Aggressor_Only so no victims could be identified
E6452	EMDSET_ERR_52	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_IBIS-ISS {issfile}: No of Terminals {numterminals} does not match the number of nodes {numnodes} in Subckt {subcktname}
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have the same number of nodes <numnodes> as the number of terminals <numterminals>
E6453	EMDSET_ERR_53	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_IBIS-ISS {issfile}: Subckt {subcktname} has invalid node {node}

		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has an invalid node <node>
E6454	EMDSET_ERR_54	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_IBIS-ISS {issfile}: Parameter {paramname} is not {paramtype} type in Subckt {subcktname}
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a subcircuit <subcktname> in IBIS-ISS file <issfile> whose parameter <paramname> is not of type <paramtype>
W6455	EMDSET_ERR_55	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_IBIS-ISS {issfile}: {paramname} is not defined as a parameter in Subckt {subcktname}
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have a parameter <paramname> defined
E6456	EMDSET_ERR_56	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_IBIS-ISS {issfile}: Unable to parse for Subckt {subcktname}
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which could not be parsed
E6457	EMDSET_ERR_57	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_TS {tsfile}: Unable to parse for number of Ports
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a File_TS <tsfile> which could not be parsed for [Number of Ports]
E6458	EMDSET_ERR_58	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_TS {tsfile}: Number of Ports {numports} does not match the number of Terminals {numterminals}
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a File_TS <tsfile> in which the [Number of Ports] does not match the number of terminals defined
W6459	EMDSET_ERR_59	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: File_IBIS-ISS {issfile}: Parameter {paramname} is defined with a difference case as '{paramvalue}' in Subckt {subcktname}
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has parameter <paramname> defined with a different case as <paramvalue>
E6460	EMDSET_ERR_60	Mandatory keyword [EMD Set] not found
		No [EMD Set] sections were found
E6461	EMDSET_ERR_61	[EMD Set] {emdsetname} [EMD Model] {emdmodelname}: Params cannot be specified when File_TS is specified
		The [EMD Model] <emdmodelname> in [EMD Set] <emdsetname> has parameters defined (though File_TS has been specified)

2.6.14 MESSAGE CODES 6500 TO 6999

Code	Symbol	Message/Comments
B6600	EMSFILE_ERR_0	{filename}:{linenum}:Unable to get IBIS.
		Program data structures are corrupt in program file <filename> at <linenum>
E6601	EMSFILE_ERR_1	Unable to allocate EMSILE.
		Memory allocation failed
E6602	EMSFILE_ERR_2	EMD Model file name {filename} does not seem to have an extension
		The referenced ems file <filename> should have an extension
E6603	EMSFILE_ERR_3	EMD Model file name {filename} invalid. Should have '.ems' extension
		The referenced ems file <filename> should have an extension .ems
E6604	EMSFILE_ERR_4	EMD Model file {filename} not found.
		The referenced ems file <filename> was not found
B6700	EMD_ERR_0	(line {linenum}) - {filename}:{fileline}:Begin_EMD unable to get IBIS?
		Program data structures are corrupt in program file <filename> at <fileline>
E6701	EMD_ERR_1	Electrical Module Description-scoped keyword not found under [Begin EMD].
		A[Begin EMD] associated keyword was not defined in a [Begin EMD] section
E6702	EMD_ERR_2	Electrical Module Description-scoped data line not found under [Begin EMD].
		A[Begin EMD] associated data line was not defined in a [Begin EMD] section
B6703	EMD_ERR_3	(line {linenum}) - {filename}:{fileline}:Illegal keyword.
		A keyword related bug was found in program file <filename> at <fileline>
E6704	EMD_ERR_4	(line {linenum}) - {keywordname}: Missing Name
		The section corresponding to keyword <keywordname> does not have an associated name
B6705	EMD_ERR_5	(line {linenum}) - {filename}:{fileline}:Illegal line type received.
		A line type related bug was found in program file <filename> at <fileline>
W6706	EMD_ERR_6	(line {linenum}) - {reservedword}: Reserved word used for {identifier}
		The reserved word <reservedword> was used for the value of <identifier>
E6707	EMD_ERR_7	(line {linenum}) - Missing '.' in pin_name ({designatorpinname}). Ignoring line.
		The designator pinname <designatorpinname> does not have a dot '.' in it
E6708	EMD_ERR_8	Electrical Module Description keyword '[Begin EMD]' not found or blank.
		The mandatory [Begin EMD] keyword was missing or did not have an associated name
E6709	EMD_ERR_9	(line {linenum}) - Duplicate {keywordname} keyword
		Keyword <keywordname> was already defined
E6710	EMD_ERR_10	(line {linenum}) - Blank {identifier} value.
		<identifier> value is not specified
E6711	EMD_ERR_11	(line {linenum}) - Invalid {identifier} ({value})
		<identifier> has an invalid value <value>

W6712	EMD_ERR_12	(line {linenum}) - Suspicious {value} value.
		The value <value> does not seem in the correct format
E6713	EMD_ERR_13	(line {linenum}) - Bad {value} value.
		The value <value> does not have the right format
E6714	EMD_ERR_14	(line {linenum}) - Number_of_Pins = 0.
		The [Number of EMD Pins] is specified as 0
E6715	EMD_ERR_15	Number_of_Pins keyword not found or value bad for Electrical Module Description '{emdname}'.
		The [Number of EMD Pins] was not specified or had an invalid value for [Begin EMD] <emdname>
E6716	EMD_ERR_16	(line {linenum}) - No {identifier} found.
		A value for <identifier> was not found
E6717	EMD_ERR_17	(line {linenum}) - {identifier} {value} too long (maximum {maxlen} characters allowed). Will be truncated.
		<identifier> has a value <value> which is too long. Only <maxlen> characters are allowed.
E6718	EMD_ERR_18	(line {linenum}) - Number of Pins is zero, unable to add Pin Number.
		A pin under [EMD Pin] could not be added because [Number of EMD Pins] is 0
E6719	EMD_ERR_19	(line {linenum}) - Unable to allocate {structname}.
		Memory allocation for structure <structname> failed
E6720	EMD_ERR_20	(line {linenum}) - More Pin Numbers names than Number of pins.
		More EMD Pins were specified than the [Number of EMD Pins]
E6721	EMD_ERR_21	(line {linenum}) - EMD Pin '{emdpinname}' is not alphanumeric
		There are non-alpha numeric characters in [EMD Pin] <emdpinname>
E6722	EMD_ERR_22	(line {linenum}) - Duplicate {identifier} ({value}).
		<identifier> with value <value> has already been specified
E6723	EMD_ERR_23	(line {linenum}) - Invalid {identifier} ({value}). Ignoring line.
		<identifier> has an invalid value <value>
E6724	EMD_ERR_24	{NA} in {NA} ({NA}) is too long. Will be truncated.
E6725	EMD_ERR_25	(line {linenum}) - Unexpected data after {identifier}.
		Some extraneous data was specified after the value for <identifier>
E6726	EMD_ERR_26	EMD Module {emdname}: Required keyword '{keywordname}' not found.
		Mandatory keyword <keywordname> was not defined in [Begin EMD] <emdname>
E6727	EMD_ERR_27	No '{identifier}' found.
		No data associated with <identifier> was found
W6728	EMD_ERR_28	(line {linenum}) - File reference is 'NA' but Component/Module reference is not 'NA'
		The file_reference in an [EMD Parts] line is 'NA' but the component/module reference is not 'NA'
W6729	EMD_ERR_29	(line {linenum}) - File reference is not 'NA' but Component/Module reference is 'NA'
		The file_reference in an [EMD Parts] line is not 'NA' but the component/module reference is 'NA'

E6730	EMD_ERR_30	Mandatory keyword [Begin EMD] not found
		The mandatory keyword [Begin EMD] was not found in an .emd file
E6731	EMD_ERR_31	(line {linenum}) - Invalid extension '{extension}' in file_reference ({fileref})
		An invalid extension <extension> was found in the file reference <fileref>
E6732	EMD_ERR_32	Keyword '{keywordname1}' is required when Keyword '{keywordname2}' is specified
		The keyword <keywordname1> must be specified when keyword <keywordname2> is specified
E6733	EMD_ERR_33	Keyword '{keywordname}' not found or blank for Electrical Module Description '{emdname}'.
		Mandatory keyword <keywordname> was not defined in [Begin EMD] <emdname>
E6734	EMD_ERR_34	(line {linenum}) - Duplicate '{keywordname}' keyword found.
		Keyword <keywordname> is already defined
E6735	EMD_ERR_35	(line {linenum}) - Extraneous data on '{keywordname}' line.
		The Keyword <keywordname> was followed by some unknown data
E6736	EMD_ERR_36	(line {linenum}) - No file extension specified in file_reference {fileref}
		An extension was not found in the file reference <fileref>
E6737	EMD_ERR_37	(line {linenum}) - Unable to find '{keywordname}' after {identifier} keyword.
		<identifier> was not found after Keyword <keywordname>
E6738	EMD_ERR_38	(line {linenum}) - '{columnidentifier}' column header not found.
		The column identifier <columnidentifier> was not found
E6739	EMD_ERR_39	(line {linenum}) - Unrecognized data after '{columnidentifier}'
		There was unknown data after the column identifier <columnidentifier>
E6740	EMD_ERR_40	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} not found in file {fileref}
		The [EMD Set]<emdset> referenced in [EMD Group]<emdgroup> in [Begin EMD] <emdmodule> was not found in the .ems file reference <fileref>
E6741	EMD_ERR_41	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel} : {railoriopin} '{pinname}' not found in .emd file
		The Rail or IO Pin <pinname> associated with [Begin EMD] <emdname>, [EMD Group] <emdgroup>, [EMD Set] <emdset>, [EMD Model] <emdmodel> was not found in the .emd file
C6742	EMD_ERR_42	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel} : NC Pin '{pinname}' used as an I/O
		The I/O Pin <pinname> associated with [Begin EMD] <emdname>, [EMD Group] <emdgroup>, [EMD Set] <emdset>, [EMD Model] <emdmodel> is of signal_type NC
E6743	EMD_ERR_43	Designator {designatorname} associated with Part {partname} references a {componentormodule} {name} in file {fileref} whose Pin {pinname} is not defined as a Designator Pin
		The designator <designatorname> associated with part <partname> references a module or component <name> in file <fileref> whose Pin <pinname> is not defined as a Designator Pin
E6744	EMD_ERR_44	Designator {designatorname} associated with Part {partname} references a {componentormodule} {name} in file {fileref} which does not have the Designator Pin {pinname} defined
		The designator <designatorname> associated with part <partname> references a module or component <name> in file <fileref> which does not have the Designator Pin <pinname> defined
E6745	EMD_ERR_45	Designator {designatorname} associated with Part {partname} references a {componentormodule} {name} which is not defined in referenced file {fileref}

		The designator <designatorname> associated with part <partname> references a module or component <name> which was not found in the referenced file <fileref>
E6746	EMD_ERR_46	Number of EMD Pins <{numpins}> not the same as count of Pin Numbers names found <{pincount}>.
		The specified [Number of EMD Pins] does not match the total pin count of pins under [EMD Pins]
E6747	EMD_ERR_47	(line {linenum}) - {identifier1} found without corresponding {identifier2}
		keyword <identifier1> was found without a corresponding keyword <identifier2>
E6748	EMD_ERR_48	(line {linenum}) - Keyword '{keywordname}' expected
		The Keyword <keywordname> was expected
E6749	EMD_ERR_49	{emdordesignatorpin} '{pinname1}' with signal_name '{signalname1}' has bus_label '{buslabel}' while the {emdordesignatorpin} '{pinname2}' with the same bus_label has a different signal_name '{signalname2}'
		The EMD or Designator Pin <pinname1> with bus_label <buslabel> has signal_name <signalname1> while the EMD or Designator Pin <pinname2> with the same bus_label has a different signal_name <signalname2>
E6750	EMD_ERR_50	Voltage List: '{signalnameorbuslabel}' not found as a bus_label or signal_name in [EMD Pin List] or [Designator Pin List]
		<signalnameorbuslabel> was not found as a signal_name or bus_label associated with any EMD Pin or Designator Pin
E6751	EMD_ERR_51	Voltage List: '{signalnameorbuslabel}' found as a bus_label or signal_name but the associated {emdordesignatorpin} '{pinname}' if not of type POWER or GND
		<signalnameorbuslabel> was found as a signal_name or bus_label associated with EMD or Designator pin <pinname> but the pin is not of type POWER or GND
E6752	EMD_ERR_52	EMD Group '{emdgroup}' has no EMD Sets defined
		The [EMD Group] <emdgroup> has no [EMD Sets] defined
E6753	EMD_ERR_53	(line {linenum}) - Illegal Designator Name "" in pin name
		** cannot be specified as a designator in a designator pin name
E6754	EMD_ERR_54	(line {linenum}) - [Begin EMD] can be defined only once in a .emd file
		There can be at most one [Begin EMD] section in a .emd file
B6755	EMD_ERR_55	Unable to Parse {param}: {filename} {fileline}
		There is a parsing bug at filename <filename> at <fileline> when parsing <param>
E6756	EMD_ERR_56	Part {partname} associated with Designator {designatorname} is invalid or does not exist
		The part <partname> associated with designator <designatorname> was not valid or not found
E6757	EMD_ERR_57	Designator Pin {designatorpinname} references an unknown Designator {designatorname}
		The designator <designatorname> referenced in the designator pin <designatorpinname> is not defined
E6758	EMD_ERR_58	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel}: Pin Rail Terminal {terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with bus_label {buslabel}
		Pin Rail terminal <terminal1> with signal_name <signalname> duplicates Pin Rail terminal <terminal2> with bus_label <buslabel> in [Begin EMD] <emdname>, [EMD Group] <emdgroup>, [EMD Set] <emdset>, [EMD Model] <emdmodel>
E6759	EMD_ERR_59	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel}: Pin Rail Terminal {terminal1} with signal_name {signalname} duplicates Terminal {terminal2} with pin_name {pinname}

		Pin Rail terminal <terminal1> with signal_name <signalname> duplicates Pin Rail terminal <terminal2> with pin_name <pinname> in [Begin EMD] <emdname>, [EMD Group] <emdgroup>, [EMD Set] <emdset>, [EMD Model] <emdmodel>
E6760	EMD_ERR_60	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel}: Pin Rail Terminal {terminal1} with bus_label {buslabel} duplicates Terminal {terminal2} with pin_name {pinname}
		Pin Rail terminal <terminal1> with bus_label <buslabel> duplicates Pin Rail terminal <terminal2> with pin_name <pinname> in [Begin EMD] <emdname>, [EMD Group] <emdgroup>, [EMD Set] <emdset>, [EMD Model] <emdmodel>
E6761	EMD_ERR_61	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel}: Pin Rail Terminal {terminal1} with {qualifiername} {qualifiervalue} duplicates Terminal {terminal2} with the same {qualifiername}
		Pin Rail terminal <terminal1> with <qualifiername> <qualifiervalue> duplicates Pin Rail terminal <terminal2> with the same <qualifiername> in [Begin EMD] <emdname>, [EMD Group] <emdgroup>, [EMD Set] <emdset>, [EMD Model] <emdmodel>
E6762	EMD_ERR_62	EMD Module {emdmodule} [EMD Group] {emdgroup}: All IO pin_names considered Aggressor_Only
		All I/O Pins associated with [EMD Group] <emdgroup> in [Begin EMD] <emdmodule> were found to be Aggressor_Only
E6763	EMD_ERR_63	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel}: I/O Pin {pinname} also found in (EMD Set {emdset2} EMD Model {emdmodel2}) which is in the same EMD Group
		The I/O Pin <pinname> occurs in [EMD Set] <emdset> [EMD Model] <emdmodel> and also in [EMD Set] <emdset2> [EMD Model] <emdmodel2> in [Begin EMD] <emdname>, [EMD Group] <emdgroup>
W6764	EMD_ERR_64	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel}: Common signal_names cause all IO pin_names to be considered Aggressor_Only
		All I/O Pins associated with [EMD Model] <emdmodel> in [EMD Set] <emdset> in [EMD Group] <emdgroup> in [Begin EMD] <emdmodule> were found to be Aggressor_Only because of common signal names
E6765	EMD_ERR_65	{emdordesignatoriopin} '{pinname1}' has the same signal_name '{signalname}' as {emdordesignatorrailpin} '{pinname2}'
		An EMD or Designator I/O pin <pinname1> cannot have the same signal_name <signalname> as an EMD or Designator Rail Pin
E6766	EMD_ERR_66	EMD Module {emdmodule} [EMD Group] {emdgroup} [EMD Set] {emdset} [EMD Model] {emdmodel} : Designator Pin '{pinname}' has signal_type NC and cannot appear on any of the terminal lines of any EMD Model
		The Pin <pinname> s associated with [EMD Model] <emdmodel> in [EMD Set] <emdset> in [EMD Group] <emdgroup> in [Begin EMD] <emdmodule> is type NC and cannot be referenced on the terminal line of an EMD Model
W6767	EMD_ERR_67	(line {linenum}) - NC: Reserved word used for signal_name that is not signal_type NC
		NC was used as a signal_name for a pin whose signal_type was not NC
E6800	CMODEL_ERR_0	(line {linenum}) - [C Comp Model] At most 2 instances can be defined
		There can only be two [C Comp Model] sections in a Model
B6801	CMODEL_ERR_1	(line {linenum}) - Unable to Allocate Memory: {filename} {fileline}
		Memory allocation failure in program file <filename> at line <fileline>
E6802	CMODEL_ERR_2	(line {linenum}) - Should Not Be Here: {filename}, {fileline}
		There is a bug in the code in program file <filename> at line <fileline>

E6803	CMODEL_ERR_3	(line {linenum}) - Unable to Parse {identifier}: {filename} {fileline}
		There is a parsing bug in program file <filename> at <fileline> when parsing <identifier>
E6804	CMODEL_ERR_4	(line {linenum}) - Incorrect Number of Line Items ({itemcount}) For {identifier}: Expecting {itemcountexpected}
		For <identifier> we expected <itemcountexpected> tokens but found <itemcount> tokens on the data line
E6805	CMODEL_ERR_5	(line {linenum}) - Could not parse '{identifier}' line
		Could not parse a data line associated with <identifier>
E6806	CMODEL_ERR_6	(line {linenum}) - [C Comp Model] parameter {paramname} is already defined
		The parameter <paramname> is already defined
E6807	CMODEL_ERR_7	
		NOT USED
E6808	CMODEL_ERR_8	(line {linenum}) - There should be {numvalues} values defined for Format {formatname}
		For format <formatname> the number of values specified should be <numvalues>
W6809	CMODEL_ERR_9	(line {linenum}) - Suspicious {value} value
		The value <value> does not seem in the correct format
E6810	CMODEL_ERR_10	(line {linenum}) - Bad {value} value
		The value <value> does not have the right format
E6811	CMODEL_ERR_11	(line {linenum}) - {identifier1} cannot be specified when {identifier2} is already specified
		<identifier1> should not be defined when <identifier2> is defined
E6812	CMODEL_ERR_12	(line {linenum}) - When File_TS is specified, A_gnd can only be specified with the last terminal
		The TerminalType A_gnd can only be specified with the last terminal when File_TS is specified
E6813	CMODEL_ERR_13	(line {linenum}) - Subparameter Number_of_terminals should be specified after all other subparameters have been specified
		Number_of_terminals should be defined after all subparameters in a [EMD Model] section
E6814	CMODEL_ERR_14	(line {linenum}) - {cornename} corner has already been defined for File_IBIS-ISS
		The Corner <cornename> has already been specified for File_IBIS-ISS
E6815	CMODEL_ERR_15	(line {linenum}) - File '{fileref}' does not exist
		The referenced file <fileref> was not found
E6816	CMODEL_ERR_16	(line {linenum}) - Unknown {identifier} {value} found
		An unknown value <value> was specified for <identifier>
E6817	CMODEL_ERR_17	(line {linenum}) - Missing '='
		The assignment operator is missing
E6818	CMODEL_ERR_18	(line {linenum}) - {identifier} cannot be equal to 0.
		The value of <identifier> cannot be 0 or negative
E6819	CMODEL_ERR_19	(line {linenum}) - Terminal {terminal} is larger than the Number_of_terminals {numberofterminals}
		A terminal number <terminal> is greater than the total <numberof terminals> in an Interconnect Model

E6820	CMODEL_ERR_20	(line {linenum}) - Terminal {terminalnum} is already defined
		Terminal <terminalnum> is already defined
E6821	CMODEL_ERR_21	(line {linenum}) - Number_of_terminals should be at least 2.
		There should be at least 2 terminals specified
E6822	CMODEL_ERR_22	Model '{modelname}': No {terminaltype} type terminals found in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> should have at least one Ref and one I/O terminal
E6823	CMODEL_ERR_23	Model '{modelname}': No Typ Corner found for {issOrts} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> does not have a Typ corner defined under File_IBIS-ISS or File_TS
E6824	CMODEL_ERR_24	Model '{modelname}': Param cannot specified when File_TS is specified in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> has File_TS defined so parameters cannot be specified
E6825	CMODEL_ERR_25	Model '{modelname}': C_comp_model_mode {mode} defined for model type {modeltype} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> has a C_comp_model_mode <mode> which is invalid for the model type <modeltype>
W6826	CMODEL_ERR_26	Model '{modelname}': Found more than one [C Comp Model] for Model Type {modeltype}
		The Model <modelname> is of type <modeltype> and should not have more than one [C Comp Model] section
E6827	CMODEL_ERR_27	Model {modelname} File_IBIS-ISS {issfile}: No of Terminals {numterminals} does not match the number of nodes {numnodes} in Subckt {subcktname} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have the same number of nodes <numnodes> as the number of terminals <numterminals>
E6828	CMODEL_ERR_28	Model {modelname} File_IBIS-ISS {issfile}: Subckt {subcktname} has invalid node {node} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which has an invalid node <node>
E6829	CMODEL_ERR_29	Model {modelname} File_IBIS-ISS {issfile}: Parameter {paramname} is not {paramtype} type in Subckt {subcktname} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a subcircuit <subcktname> in IBIS-ISS file <issfile> whose parameter <paramname> is not of type <paramtype>
E6830	CMODEL_ERR_30	Model {modelname} File_IBIS-ISS {issfile}: {paramname} is not defined as a parameter in Subckt {subcktname} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which does not have a parameter <paramname> defined
E6831	CMODEL_ERR_31	Model {modelname} File_IBIS-ISS {issfile}: Unable to parse for Subckt {subcktname} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a subcircuit <subcktname> in IBIS-ISS file <issfile> which could not be parsed
E6832	CMODEL_ERR_32	Model {modelname} File_TS {tsfile}: Unable to parse for port count in [C Comp Model] defined on

		line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a File_TS <tsfile> in which the [Number of Ports] could not be determined
E6833	CMODEL_ERR_33	Model {modelname} File_TS {tsfile}: Number of Ports {numports} does not match the number of Terminals {numterminals} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> references a File_TS <tsfile> in which the [Number of Ports] does not match the number of terminals <numterminals>
E6834	CMODEL_ERR_34	Model {modelname} File_IBIS-ISS {issfile}: Parameter {paramname} is defined with a difference case as '{subcktparam}' in Subckt {subcktname} in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> has a param <paramname> while the corresponding parameter <subcktparam> differs in case for subckt <subcktname> defined in file <issfile>
E6835	CMODEL_ERR_35	Model {modelname} The last terminal {terminalnum} cannot be of type Buffer_I/O or Buffer_I for File_TS in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> has the last terminal <terminalnum> defined as a Buffer_I/O or Buffer_I type
E6836	CMODEL_ERR_36	Model {modelname} Terminal {terminalnum} is not defined in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] defined on line <linenum> does not have the Terminal <terminalnum> defined
E6837	CMODEL_ERR_37	{line {linenum}} - Terminal_type {terminaltype} is already associated with Terminal {terminalnum}
		A terminal <terminalnum> with terminal type <terminaltype> already exists
E6838	CMODEL_ERR_38	Model {modelname} Required subparameter C_comp_model_mode not defined in [C Comp Model] defined on line {linenum}
		In model <modelname> the [C Comp Model] section defined on line number <linenum> does not have the mandatory subparameter C_comp_model_mode
E6900	PDNDMN_ERR_0	
		NOT USED
E6901	PDNDMN_ERR_1	{line {linenum}} - {identifier} {value} is already defined
		<identifier> with value <value> has already been specified
B6902	PDNDMN_ERR_2	{line {linenum}} - Unable to Parse {identifier}: {filename} {fileline}
		There is a parsing bug in program file <filename> at <fileline> when parsing <identifier>
E6903	PDNDMN_ERR_3	{line {linenum}} - Missing {identifier}
		A value for <identifier> was not found
E6904	PDNDMN_ERR_4	{line {linenum}} - Unexpected data '{data}' found after the {identifier}
		Some extra text <data> was found after the value for <identifier>
E6905	PDNDMN_ERR_5	{line {linenum}} - PDN Domain-scoped keyword not found under [PDN Domain]
		A [PDN Domain] associated keyword was not defined in a [PDN Domain] section
E6906	PDNDMN_ERR_6	{line {linenum}} - PDN Domain-scoped data line not found under [PDN Domain].
		A [PDN Domain] associated data line was not defined in a [PDN Domain] section
B6907	PDNDMN_ERR_7	{line {linenum}} - {filename}:{fileline}:Illegal keyword passed to [PDN Domain].
		There is a keyword related bug in program file <filename> at line <fileline>

B6908	PDNDMN_ERR_8	{filename}:{fileline}:Data for End PDN Domain.
		There is a bug related to [End PDN Domain] in program file <filename> at line <fileline>
B6909	PDNDMN_ERR_9	(line {linenum}) - {filename}:{fileline}:Unknown keyword received data.
		A keyword related bug was found in program file <filename> at <fileline>
B6910	PDNDMN_ERR_10	(line {linenum}) - {filename}:{fileline}:Illegal line type passed to PDN Domain.
		A line type related bug was found in program file <filename> at <fileline>
E6911	PDNDMN_ERR_11	{identifier} expected
		<identifier> was expected but not found
E6912	PDNDMN_ERR_12	Component {compname}, PDN Domain {pdnname}: Bus_labels '{buslabel1}' and '{buslabel2}' are associated with the same signal_name '{signalname}' and they cannot be specified together
		In Component <compname>, the [PDN Domain] <pdnname> specifies two different buslabels <buslabel1> and <buslabel2> which are associated with the same signalname <signalname>
E6913	PDNDMN_ERR_13	(line {linenum}) - Unable to create new PDN Domain.
		Memory allocation failed
W6914	PDNDMN_ERR_14	(line {linenum}) - {reservedword}: Reserved word used for {identifier}
		The reserved word <reservedword> was used for the value of <identifier>
E6915	PDNDMN_ERR_15	(line {linenum}) - {identifier} {value} too long (maximum {maxlen} characters allowed). Will be truncated.
		<identifier> has a value <value> which is too long. Only <maxlen> characters are allowed.
E6916	PDNDMN_ERR_16	(line {linenum}) - Unknown data line under {keywordname}
		An unrecognized data line was found in the section identified by <keywordname>
B6917	PDNDMN_ERR_17	(line {linenum}) - Should Not Be Here: {filename}, {fileline}
		A program bug exists in file <filename> at line <fileline>
E6918	PDNDMN_ERR_18	(line {linenum}) - '{identifier}' Subparameter Missing Setting
		A value for <identifier> was not found
E6919	PDNDMN_ERR_19	(line {linenum}) - Incorrect Number of Line Items ({itemcount}) For {identifier}: Expecting {itemcountexpected}
		For <identifier> we expected <itemcountexpected> tokens but found <itemcount> tokens on the data line
E6920	PDNDMN_ERR_20	(line {linenum}) - {keyword1} found without corresponding {keyword2}
		<keyword1> was found without a preceding <keyword2>
E6921	PDNDMN_ERR_21	(line {linenum}) - No [PDN Model] defined in [PDN Domain] {pdnname}
		No [PDN Model] section was found in [PDN Domain] <pdnname>
B6922	PDNDMN_ERR_22	Could not allocate memory in file {filename} at line {fileline}
		Memory allocation failed in program file <filename> at line <fileline>
E6923	PDNDMN_ERR_23	Component {compname}, PDN Domain {pdnname}: Bus_label '{buslabel}' is associated with signal_name '{signalname}' and they cannot be specified together
		In Component <compname>, the [PDN Domain] <pdnname> specifies a buslabel <buslabel> and a signalname <signalname> when in fact both are already associated together
E6924	PDNDMN_ERR_24	(line {linenum}) - Subparameter {subparam} is already defined for [PDN Model] {pdnmdlname}

		The Subparameter <subparam> has already been defined in the [PDN Model] <pdnmdlname>
E6925	PDNDMN_ERR_25	(line {linenum}) - The First value for Subparameter {subparam} should not be 'NA'
		The first value of the Subparameter <subparam> values cannot be 'NA'
E6926	PDNDMN_ERR_26	(line {linenum}) - The {1st2ndOr3rd} value for Subparameter {subparam} should not be {subparam2} 0
		The <1st2ndOr3rd> value of the Subparameter <subparam> values cannot be 0
E6927	PDNDMN_ERR_27	Component {compname}, PDN Domain {pdnname}: {busOrSignal} '{busOrSignalName}' not found
		In Component <compname>, the [PDN Domain] <pdname> specifies a <busOrSignal> <bugOrSignalName> which was not found in the <compname>
E6928	PDNDMN_ERR_28	(line {linenum}) - Subparameter {subparam} not defined for [PDN Model] {pdnmodelname}
		The Subparameter <subparam> was not defined in [PDN Model] <pdnmodelname>
E6929	PDNDMN_ERR_29	(line {linenum}) - Already 2 {busOrSignal} Subparameters have been specified. Another {busOrSignal} cannot be specified
		Already 2 bus_labels or signal_names have been specified so another bus_label or signal_name cannot be specified
E6950	AMITESTCFG_ERR_0	
		NOT USED
E6951	AMITESTCFG_ERR_1	Subparameter {subparam} is already defined
		Duplicate SubParameter <subparam> found
E6952	AMITESTCFG_ERR_2	Missing {name}
		The AMI Test Configuration section <name> was not defined
E6953	AMITESTCFG_ERR_3	Unexpected data '{text}' found after the {name}
		Some extraneous <text> was found after the AMI Test Configuration <name>
E6954	AMITESTCFG_ERR_4	Invalid Type value '{text}' (must be 'Statistical' or 'Time_domain')
		Unknown value <text> for subparameter Type specified
E6955	AMITESTCFG_ERR_5	Invalid Direction value '{text}' (must be 'Tx' or 'Rx')
		Unknown value <text> for subparameter Direction specified
E6956	AMITESTCFG_ERR_6	Executable_index must be a positive integer > 0. Found {executableindex}
		An Executable_index subparameter was specified with a value <executableindex> which was not a positive integer
E6957	AMITESTCFG_ERR_7	Unknown sub-parameter '{subparam}'
		An Unknown subparameter <subparam> was specified
E6958	AMITESTCFG_ERR_8	[AMI Test Configuration] with name '{name}' is already defined
		Two AMI Test Configuration sections were defined with the same <name>
W6959	AMITESTCFG_ERR_9	{reservedword}: Reserved word used for {sectionname}
		The Reserved word <reservedword> was used as the name of the section <sectionname>
E6960	AMITESTCFG_ERR_10	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Required sub-parameter '{subparam1}' is missing for {subparam2}={subparam2value}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the subparameter <subparam1> is required when subparameter <subparam2> has the value

		<subparam2value>
E6961	AMITESTCFG_ERR_11	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Sub-parameter '{subparam1}' is prohibited for {subparam2}={subparam2value}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the subparameter <subparam1> is not allowed when subparameter <subparam2> has the value <subparam2value>
E6962	AMITESTCFG_ERR_12	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Clock Input file cannot be specified since Rx_Use_Clock_Input is not specified as a parameter in the Input_AMI_parameters_file
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the subparameter Clock_input_file cannot be specified since the Rx_Use_Clock_Input was not specified as a Reserved Parameter in the associated ami file
E6963	AMITESTCFG_ERR_13	File '{filename}' not found
		File <filename> does not exist
E6964	AMITESTCFG_ERR_14	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Function {function} in executable file returned '{rootname}' as root name in the AMI Output parameters. Should be 'expectedrootname'
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, when the function <function> in the associated executable file was invoked, a valid Root Name <expectedRoot Name> matching the root name <expectedRoot Name> in the associated ami file was not returned
E6965	AMITESTCFG_ERR_15	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Function {function} invocation failed with error code {errorcode}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, when the function <function> was invoked, an error <errorcode> was returned
B6966	AMITESTCFG_ERR_16	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Unable to allocate memory for {buffname}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, memory could not be allocated for the buffer <buffname>
C6967	AMITESTCFG_ERR_17	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Number of Rows in IR Input file {numrows} is not the same as Number_ofRows Simulator Parameter {numrowsparam}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the number of rows <numrows> specified in the IR Input file does not match the parameter Number_Of_Rows <numrowsparam> specified in the Simulator Parameters
B6968	AMITESTCFG_ERR_18	Unable to create new AMI Test Configuration.
		Memory allocation failed for AMI Test Configuration section
B6969	AMITESTCFG_ERR_19	Unable to Parse {linetype}: {filename} {linenum}
		There was an error parsing <linetype> in file <filename> at line <linenum>
E6970	AMITESTCFG_ERR_20	Incorrect Number of Line Items ({numtokens}) For {subparam}: Expecting {expected}
		The Number of tokens <numtokens> found does not match the number of tokens expected <expected> for the subparameter <subparam>
E6971	AMITESTCFG_ERR_21	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Required sub-parameter '{subparam}' is missing
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name> the required subparameter <subparam> was not found
E6972	AMITESTCFG_ERR_22	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Required sub-parameter '{subparam}' is missing for {subparam1}={subparam1value} and {subparam2}={subparam2value}

		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the subparameter <subparam> is required when <subparam1> has a value <subparam1value> and <subparam2> has a value <subparam2value>
E6973	AMITESTCFG_ERR_23	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Executable_Index {executableindex} is invalid
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name> the Executable_index value <executableindex> is greater than the number of executable specified
E6974	AMITESTCFG_ERR_24	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Subparameter Clock_input_file is required since Type=Time_domain and Direction=Tx and Rx_Use_Clock_Input parameter is specified
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name> since the Type is Time_domain and the Direction is Tx and the Reserved Parameter Rx_Use_Clock_Input has been specified in the associated ami file, the Clock_input_file subparameter is mandatory
E6975	AMITESTCFG_ERR_25	[Model] {linenum} [AMI Test Configuration] {name}: Direction '{direction}' is incompatible with the model type '{modeltype}'
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the value of the Direction subparameter <direction> is not consistent with the Model_type <Model_type> of the containing Model
E6976	AMITESTCFG_ERR_26	Filename too long {filename}
		The file name <filename> exceeds the number of allowed characters in a file name
E6977	AMITESTCFG_ERR_27	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: file '{filename}' is not a valid {subparam} file: {error}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name> has a file <filename> defined as a subparameter <subparam> which is not a valid file as per the error <error>
E6978	AMITESTCFG_ERR_28	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Invalid root name '{rootname}' used in Input parameters file, should be '{expectedrootname}'
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the Input Parameters file uses a root name <rootname> which does not match the root name <expectedrootname> defined in the associated ami file
E6979	AMITESTCFG_ERR_29	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: {inout} Parameter '{param}' not found in ami file
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the Input or Output <inout> parameter <param> was not defined in the associated ami file
E6980	AMITESTCFG_ERR_30	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: {inout} Parameter '{param}' has a type that does not match the ami type '{type}'
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the Input or Output <inout> parameter <param> has a value whose type does not seem to match the Type <type> defined in the associated ami file
E6981	AMITESTCFG_ERR_31	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: {inout} Parameter '{param}' cannot be used since its Usage is not {usage} in the ami file
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the <inout> Input parameter <paramname> cannot be used if its usage <usage> is not In or InOut in the associated ami file and the <inout> Output parameter <paramname> cannot be used if its Usage <usage> is not Out or InOut in the associated ami file
E6982	AMITESTCFG_ERR_32	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Input Parameter '{paramname}' has a value '{paramvalue}' that is not consistent with its Format in the ami file
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the AMI_input_parameters_file has a parameter <paramname> defined with a value

		<paramvalue> which is not consistent with the Format of the parameter specified in the associated ami file
E6983	AMITESTCFG_ERR_33	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Input Parameter '{paramname}' has a value '{paramvalue}' that is not consistent with its Default value '{defaultvalue}' in the ami file
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the AMI_input_parameters_file has a parameter <paramname> defined with a value <paramvalue> which is not consistent with the Default Value for the parameter specified in the associated ami file
E6984	AMITESTCFG_ERR_34	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: {inout} parameter file has {numparams} parameters but the ami file has {numamiparams} {usage} parameters
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the number of <inout> Input parameters <numparams> in the Input Parameter file is not equal to the number of <usage> In/InOut parameters <numamiparams> in the associated ami file or the number of <inout> Output parameters <numparams> in the Output Parameter file does not match the number of <usage> Out/InOut parameters <numamiparams> in the associated ami parameter file
E6985	AMITESTCFG_ERR_35	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: '{paramname}' branch not found in Input parameters file
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name> the parameter <paramname> which exists as an Input or InOut parameter in the associated ami file was not found in the AMI_Input_parameters_file
E6986	AMITESTCFG_ERR_36	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Required Simulator_parameters not found in the Input parameters file. Will omit Root Name checks
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name> all the required Simulation Parameters were not defined so Root Name check was omitted
E6987	AMITESTCFG_ERR_37	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Number of columns in the Input IR file: {numcolumns} does not match the number of aggressors+1: {numaggressorsplus1} specified in the Simulator parameters
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the number of columns in the Input_IR_file <numcolumns> should be equal to Aggressors+1<numaggressorsplus1> where Aggressors is specified in the Simulation Parameter file
E6988	AMITESTCFG_ERR_38	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Number of {roworcol} in {filesubparam1}: {roworcolcount1} does not match those in {filesubparam2}: {roworcolcount2}
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the number <roworcolcount1> of Rows/Columns <roworcol> in the file associated with file subparameter <filesubparam1> does not match the number <roworcolcount2> in the file associated with the file subparameter <filesubparam2>
E6989	AMITESTCFG_ERR_39	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Function {function} in executable file did not return a valid root name '{expectedrootname}' in the AMI Output parameters
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, when the function <function> in the associated executable file was invoked, a null Root Name was returned instead of <expectedrootname>
C6990	AMITESTCFG_ERR_40	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Root Name checks require both AMI_Init and AMI_Close functions to be defined in the executable file. Omitting
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>, the Root Name check was omitted because either AMI_Init or AMI_Close function was not found in the corresponding executable file
C6991	AMITESTCFG_ERR_41	[Algorithmic Model] line {linenum} [AMI Test Configuration] {name}: Direction {inout} does not match Executable direction {exinout}. Omitting Root Name checks
		In the Algorithmic Model defined on line <linenum>, the AMI Test Configuration section <name>,

		the Direction subparameter value <inout> does not match the direction <exinout> for the executable. Hence Root Name checks were not performed
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