

# XL C/C++ Messages

Version 2 Release 1

Note Before using this information and the product it supports, read the information in "Notices" on page 255.					

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## **About this document**

This edition of z/OS XL C/C++ Messages is intended for users of the IBM<sup>®</sup> z/OS<sup>®</sup> XL C/C++ compiler with the IBM Language Environment<sup>®</sup> element provided with z/OS. It provides you with information on the compiler return codes, compiler messages, utility messages, and C/C++ legacy class libraries messages.

This document contains terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line (|) to the left of the change.

You may notice changes in the style and structure of some of the contents in this document; for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our documents.

#### z/OS XL C/C++ and related documents

This topic summarizes the content of the z/OS XL C/C++ documents and shows where to find related information in other documents.

Table 1. z/OS XL C/C++ and related documents

Document Title and Number	Key Sections/Chapters in the Document		
z/OS XL C/C++ Programming Guide,	Guidance information for:		
SC14-7315	• XL C/C++ input and output		
	Debugging z/OS XL C programs that use input/output		
	Using linkage specifications in C++		
	Combining C and assembler		
	Creating and using DLLs		
	Using threads in z/OS UNIX System Services applications		
	Reentrancy		
	Handling exceptions, error conditions, and signals		
	Performance optimization		
	Network communications under z/OS UNIX		
	Interprocess communications using z/OS UNIX		
	Structuring a program that uses C++ templates		
	Using environment variables		
	Using System Programming C facilities		
	Library functions for the System Programming C facilities		
	Using runtime user exits		
	Using the z/OS XL C multitasking facility		
	<ul> <li>Using other IBM products with z/OS XL C/C++ (IBM CICS® Transaction Server for z/OS, CSP, DWS, IBM DB2®, IBM GDDM®, IBM IMS™, ISPF, IBM QMF™)</li> </ul>		
	Globalization: locales and character sets, code set conversion utilities, mapping variant characters		
	POSIX character set		
	Code point mappings		
	• Locales supplied with z/OS XL C/C++		
	Charmap files supplied with z/OS XL C/C++		
	Examples of charmap and locale definition source files		
	Converting code from coded character set IBM-1047		
	Using built-in functions		
	Using vector programming support		
	Using runtime check library		
	Using high performance libraries		
	Programming considerations for z/OS UNIX C/C++		
z/OS XL C/C++ User's Guide,	Guidance information for:		
SC14-7307	• z/OS XL C/C++ examples		
	• Compiler options		
	Binder options and control statements		
	Specifying Language Environment runtime options		
	Compiling, IPA Linking, binding, and running z/OS XL C/C++ programs		
	Utilities (Object Library, CXXFILT, DSECT Conversion, Code Set and		
	Locale, ar and make, BPXBATCH, c89, xlc)		
	Diagnosing problems		
	Cataloged procedures and IBM REXX EXECs		
	Customizing default options for the z/OS XL C/C++ compiler		

Table 1. z/OS XL C/C++ and related documents (continued)

Document Title and Number	Key Sections/Chapters in the Document		
z/OS XL C/C++ Language Reference,	Reference information for:		
SC14-7308	• The C and C++ languages		
	Lexical elements of z/OS XL C and C++		
	Declarations, expressions, and operators		
	Implicit type conversions		
	Functions and statements		
	Preprocessor directives		
	C++ classes, class members, and friends		
	<ul> <li>C++ overloading, special member functions, and inheritance</li> <li>C++ templates and exception handling</li> </ul>		
	• z/OS XL C and C++ compatibility		
z/OS XL C/C++ Messages, GC14-7305	Provides error messages and return codes for the compiler, and its related application interface libraries and utilities. For the XL C/C++ runtime library messages, refer to z/OS Language Environment Runtime Messages, SA38-0686. For the c89 and xlc utility messages, refer to z/OS UNIX System Services Messages and Codes, SA23-2284.		
z/OS XL C/C++ Runtime Library	Reference information for:		
Reference, SC14-7314	header files		
	library functions		
z/OS C Curses, SA38-0690	Reference information for:		
	Curses concepts		
	Key data types		
	General rules for characters, renditions, and window properties		
	General rules of operations and operating modes		
	Use of macros		
	Restrictions on block-mode terminals		
	Curses functional interface		
	Contents of headers		
	The terminfo database		
z/OS XL C/C++ Compiler and Runtime	Guidance and reference information for:		
Migration Guide for the Application	Common migration questions		
Programmer, GC14-7306	Application executable program compatibility		
	Source program compatibility		
	Input and output operations compatibility		
	Class library migration considerations		
	Changes between releases of z/OS		
	Pre-z/OS C and C++ compilers to current compiler migration		
	Other migration considerations		
z/OS Metal C Programming Guide and	Guidance and reference information for:		
Reference, SC14-7313	Metal C run time		
	Metal C run time     Metal C programming		
	AR mode		
	- AIN HOUC		

Table 1. z/OS XL C/C++ and related documents (continued)

Document Title and Number	Key Sections/Chapters in the Document	
Standard C++ Library Reference, SC14-7309	The documentation describes how to use the following three main components of the Standard C++ Library to write portable C/C++ code that complies with the ISO standards:	
	ISO Standard C Library	
	ISO Standard C++ Library	
	Standard Template Library (C++)	
	The ISO Standard C++ library consists of 51 required headers. These 51 C++ library headers (along with the additional 18 Standard C headers) constitute a hosted implementation of the C++ library. Of these 51 headers, 13 constitute the Standard Template Library, or STL.	
z/OS Common Debug Architecture User's	This documentation is the user's guide for IBM's libddpi library. It includes:	
Guide, SC14-7310	Overview of the architecture	
	Information on the order and purpose of API calls for model user applications and for accessing DWARF information	
	• Information on using the Common Debug Architecture with C/C++ source	
	This user's guide is part of the Runtime Library Extensions documentation.	
z/OS Common Debug Architecture Library Reference, SC14-7311	This documentation is the reference for IBM's libddpi library. It includes:  • General discussion of Common Debug Architecture	
	Description of APIs and data types related to stacks, processes, operating systems, machine state, storage, and formatting	
	This reference is part of the Runtime Library Extensions documentation.	
DWARF/ELF Extensions Library Reference, SC14-7312	This documentation is the reference for IBM's extensions to the libdwarf and libelf libraries. It includes information on:	
	Consumer APIs	
	Producer APIs	
	This reference is part of the Runtime Library Extensions documentation.	
Debug Tool documentation, available on the Debug Tool for z/OS library page on the World Wide Web	The documentation, which is available at http://www.ibm.com/software/awdtools/debugtool/library/, provides guidance and reference information for debugging programs, using Debug Tool in different environments, and language-specific information.	
README file	The README file provides additional information for using the z/OS XL C/C++ licensed program, including late changes to z/OS XL C/C++ publications. To access any README files that were published after the ship date, go to http://www.ibm.com/support/docview.wss?uid=swg27007531.	

Note: For complete and detailed information on linking and running with Language Environment services and using the Language Environment runtime options, refer to z/OS Language Environment Programming Guide, SA38-0682. For complete and detailed information on using interlanguage calls, refer to z/OS Language Environment Writing Interlanguage Communication Applications, SA38-0684.

> The following table lists the z/OS XL C/C++ and related documents. The table groups the documents according to the tasks they describe.

Table 2. Documents by task

Tasks	Documents
Planning, preparing, and migrating to z/OS XL C/C++	<ul> <li>z/OS XL C/C++ Compiler and Runtime Migration Guide for the Application Programmer, GC14-7306</li> <li>z/OS Language Environment Customization, SA38-0685</li> <li>z/OS Language Environment Runtime Application Migration Guide, GA32-0912</li> <li>z/OS UNIX System Services Planning, GA32-0884</li> <li>z/OS Planning for Installation, GA32-0890</li> </ul>
Installing	<ul> <li>z/OS Program Directory</li> <li>z/OS Planning for Installation, GA32-0890</li> <li>z/OS Language Environment Customization, SA38-0685</li> </ul>
Option customization	• z/OS XL C/C++ User's Guide, SC14-7307
Coding programs	<ul> <li>z/OS XL C/C++ Runtime Library Reference, SC14-7314</li> <li>z/OS XL C/C++ Language Reference, SC14-7308</li> <li>z/OS XL C/C++ Programming Guide, SC14-7315</li> <li>z/OS Metal C Programming Guide and Reference, SC14-7313</li> <li>z/OS Language Environment Concepts Guide, SA38-0687</li> <li>z/OS Language Environment Programming Guide, SA38-0682</li> <li>z/OS Language Environment Programming Reference, SA38-0683</li> </ul>
Coding and binding programs with interlanguage calls	<ul> <li>z/OS XL C/C++ Programming Guide, SC14-7315</li> <li>z/OS XL C/C++ Language Reference, SC14-7308</li> <li>z/OS Language Environment Programming Guide, SA38-0682</li> <li>z/OS Language Environment Writing Interlanguage Communication Applications, SA38-0684</li> <li>z/OS MVS Program Management: User's Guide and Reference, SA23-1393</li> <li>z/OS MVS Program Management: Advanced Facilities, SA23-1392</li> </ul>
Compiling, binding, and running programs	<ul> <li>z/OS XL C/C++ User's Guide, SC14-7307</li> <li>z/OS Language Environment Programming Guide, SA38-0682</li> <li>z/OS Language Environment Debugging Guide, GA32-0908</li> <li>z/OS MVS Program Management: User's Guide and Reference, SA23-1393</li> <li>z/OS MVS Program Management: Advanced Facilities, SA23-1392</li> </ul>
Compiling and binding applications in the z/OS UNIX (z/OS UNIX) environment	<ul> <li>z/OS XL C/C++ User's Guide, SC14-7307</li> <li>z/OS UNIX System Services User's Guide, SA23-2279</li> <li>z/OS UNIX System Services Command Reference, SA23-2280</li> <li>z/OS MVS Program Management: User's Guide and Reference, SA23-1393</li> <li>z/OS MVS Program Management: Advanced Facilities, SA23-1392</li> </ul>

Table 2. Documents by task (continued)

Tasks	Documents
Debugging programs	<ul> <li>README file</li> <li>z/OS XL C/C++ User's Guide, SC14-7307</li> <li>z/OS XL C/C++ Messages, GC14-7305</li> <li>z/OS XL C/C++ Programming Guide, SC14-7315</li> <li>z/OS Language Environment Programming Guide, SA38-0682</li> <li>z/OS Language Environment Debugging Guide, GA32-0908</li> <li>z/OS Language Environment Runtime Messages, SA38-0686</li> <li>z/OS UNIX System Services Messages and Codes, SA23-2284</li> <li>z/OS UNIX System Services User's Guide, SA23-2279</li> <li>z/OS UNIX System Services Command Reference, SA23-2280</li> <li>z/OS UNIX System Services Programming Tools, SA23-2282</li> <li>Debug Tool documentation, available on the Debug Tool Library page on the World Wide Web (http://www.ibm.com/software/awdtools/debugtool/library/)</li> </ul>
Developing debuggers and profilers	<ul> <li>z/OS Common Debug Architecture User's Guide, SC14-7310</li> <li>z/OS Common Debug Architecture Library Reference, SC14-7311</li> <li>DWARF/ELF Extensions Library Reference, SC14-7312</li> </ul>
Packaging XL C/C++ applications	<ul> <li>z/OS XL C/C++ Programming Guide, SC14-7315</li> <li>z/OS XL C/C++ User's Guide, SC14-7307</li> </ul>
Using shells and utilities in the z/OS UNIX environment	<ul> <li>z/OS XL C/C++ User's Guide, SC14-7307</li> <li>z/OS UNIX System Services Command Reference, SA23-2280</li> <li>z/OS UNIX System Services Messages and Codes, SA23-2284</li> </ul>
Using sockets library functions in the z/OS UNIX environment	• z/OS XL C/C++ Runtime Library Reference, SC14-7314
Using the ISO Standard C++ Library to write portable C/C++ code that complies with ISO standards	Standard C++ Library Reference, SC14-7309
Performing diagnosis and submitting an Authorized Program Analysis Report (APAR)	• z/OS XL C/C++ User's Guide, SC14-7307

Note: For information on using the prelinker, see the appendix on prelinking and linking z/OS XL C/C++ programs in z/OS XL C/C++ User's Guide.

## Softcopy documents

The z/OS XL C/C++ publications are supplied in PDF format and available for download at http://www.ibm.com/software/awdtools/czos/library/.

To read a PDF file, use the Adobe Reader. If you do not have the Adobe Reader, you can download it (subject to Adobe license terms) from the Adobe website at http://www.adobe.com.

You can also browse the documents on the World Wide Web by visiting the z/OS library at http://www.ibm.com/systems/z/os/zos/bkserv/.

Note: For further information on viewing and printing softcopy documents and using IBM BookManager®, see *z/OS Information Roadmap*.

## Softcopy examples

Most of the larger examples in the following documents are available in machine-readable form:

- z/OS XL C/C++ Language Reference, SC14-7308
- z/OS XL C/C++ User's Guide, SC14-7307
- z/OS XL C/C++ Programming Guide, SC14-7315

In the following documents, a label on an example indicates that the example is distributed as a softcopy file:

- z/OS XL C/C++ Language Reference, SC14-7308
- z/OS XL C/C++ Programming Guide, SC14-7315
- z/OS XL C/C++ User's Guide, SC14-7307

The label is the name of a member in the CBC.SCCNSAM data set. The labels begin with the form CCN or CLB. Examples labelled as CLB appear only in the z/OS XL C/C++ User's Guide, while examples labelled as CCN appear in all three documents, and are further distinguished by x following CCN, where x represents one of the following:

- R and X refer to z/OS XL C/C++ Language Reference, SC14-7308
- G refers to z/OS XL C/C++ Programming Guide, SC14-7315
- U refers to z/OS XL C/C++ User's Guide, SC14-7307

## z/OS XL C/C++ on the World Wide Web

Additional information on z/OS XL C/C++ is available on the World Wide Web on the z/OS XL C/C++ home page at http://www.ibm.com/software/awdtools/ czos/.

This page contains late-breaking information about the z/OS XL C/C++ product, including the compiler, the C/C++ libraries, and utilities. There are links to other useful information, such as the z/OS XL C/C++ information library and the libraries of other z/OS elements that are available on the web. The z/OS XL C/C++ home page also contains links to other related websites.

#### Where to find more information

For an overview of the information associated with z/OS, see z/OS Information Roadmap.

## Information updates on the web

For the latest information updates that have been provided in PTF cover letters and documentation APARs for z/OS, see the online document z/OS APAR book (http://publibz.boulder.ibm.com/cgi-bin/bookmgr\_OS390/Shelves/ ZDOCAPAR).

This document is updated weekly and lists documentation changes before they are incorporated into z/OS publications.

#### The z/OS Basic Skills Information Center

The z/OS Basic Skills Information Center is a Web-based information resource intended to help users learn the basic concepts of z/OS, the operating system that runs most of the IBM mainframe computers in use today. The Information Center

is designed to introduce a new generation of Information Technology professionals to basic concepts and help them prepare for a career as a z/OS professional, such as a z/OS system programmer.

Specifically, the z/OS Basic Skills Information Center is intended to achieve the following objectives:

- Provide basic education and information about z/OS without charge
- · Shorten the time it takes for people to become productive on the mainframe
- Make it easier for new people to learn z/OS.

To access the z/OS Basic Skills Information Center, open your Web browser to the following Web site, which is available to all users (no login required): z/OS Basic Skills Information Center home page (http://publib.boulder.ibm.com/infocenter/ zos/basics/index.jsp)

## **Technical support**

Additional technical support is available from the z/OS XL C/C++ Support page. This page provides a portal with search capabilities to a large selection of technical support FAQs and other support documents. You can find the z/OS XL C/C++ Support page on the Web at:

http://www.ibm.com/software/awdtools/czos/support

If you cannot find what you need, you can e-mail:

compinfo@ca.ibm.com

For the latest information about z/OS XL C/C++, visit the product information site at:

http://www.ibm.com/software/awdtools/czos/

For information about boosting performance, productivity and portability, visit the C/C++ Cafe at:

http://www.ibm.com/software/rational/cafe/community/ccpp

## How to send your comments to IBM

We appreciate your input on this publication. Feel free to comment on the clarity, accuracy, and completeness of the information or provide any other feedback that you have.

Use one of the following methods to send your comments:

- 1. Send an email to mhvrcfs@us.ibm.com.
- 2. Send an email from the "Contact us" web page for z/OS (http:// www.ibm.com/systems/z/os/zos/webqs.html).
- 3. Mail the comments to the following address:

IBM Corporation Attention: MHVRCFS Reader Comments Department H6MA, Building 707 2455 South Road Poughkeepsie, NY 12601-5400

US

4. Fax the comments to us, as follows:

From the United States and Canada: 1+845+432-9405 From all other countries: Your international access code +1+845+432-9405

Include the following information:

- Your name and address.
- · Your email address.
- Your telephone or fax number.
- The publication title and order number:

z/OS V2R1.0 XL C/C++ Messages GC14-7305-01

- The topic and page number that is related to your comment.
- The text of your comment.

When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute the comments in any way appropriate without incurring any obligation to you.

IBM or any other organizations use the personal information that you supply to contact you only about the issues that you submit.

## If you have a technical problem

Do not use the feedback methods that are listed for sending comments. Instead, take one of the following actions:

- Contact your IBM service representative.
- Call IBM technical support.
- Visit the IBM Support Portal at z/OS support page (http://www.ibm.com/ systems/z/support/).

# Summary of changes for XL C/C++ V2R1M1

Summary of changes for GC14-7305-01

This document contains information previously presented in *z/OS XL C/C++ Messages*, GC14-7305-00, which supports IBM z/OS operating system, V1R2 through to and including V2R1.

#### New information

The following messages are new for XL C/C++ V2R1M1 web deliverable:

- CCN0835
- CCN1146
- CCN1147
- CCN1148
- CCN1149
- CCN1150
- CCN1151
- CCN1152
- CCN2034
- CCN2477
- CCN2506
- CCN2507
- CCN4512
- CCN4513
- CCN4514
- CCN4514
   CCN4515
- CCN4516
- CCN4517
- CCN4518
- CCN4519
- CCN4522
- CCN4523
- CCN4524
- CCN4525
- CCN4526
- CCN5445
- CCN5541
- CCN5542
- CCN5543
- CCN5545
- CCN5546
- CCN5548
- CCN5549
- CCN5551
- CCN5552
- CCN5553
- CCN5554
- CCN5555
- CCN5556
- CCN5557
- CCN5558
- CCN5562

- CCN5565
- CCN5566
- CCN5567
- CCN5569
- CCN5570
- CCN5571
- CCN5572
- CCN5574
- CCN5575
- CCN5576
- CCN5577
- CCN5578
- CCN5582
- CCN5583 CCN5595
- CCN5596
- CCN5598
- CCN6099
- CCN6149
- CCN6627
- CCN6641
- CCN6700
- CCN7538
- CCN7539
- CCN7541
- CCN7542 CCN8162
- CCN8163
- CCN8164
- CCN8165
- CCN8625
- CCN8626
- CCN8627
- CCN8628
- CCN8629 CCN8630
- CCN8631
- CCN8671
- CCN8672
- CCN8758
- CCN8890
- CCN8917
- CCN8986 • CCN8987

## Changed information

The following messages are changed for XL C/C++ V2R1M1 web deliverable:

- CCN3438
- CCN7519
- CCN7620
- CCN7621
- CCN7622
- CCN7623
- CCN7645
- CCN8935

- CCN8966
- CCN8967

## Summary of changes for z/OS V2R1

Summary of changes for GC14-7305-00 z/OS Version 2 Release 1

#### New information

The following messages are new for z/OS V2R1 XL C/C++ compiler:

- CCN1145
- CCN2407
- CCN2476
- CCN4483
- CCN4485
- CCN4500
- CCN4501
- CCN4502
- CCN4503
- CCN4504
- CCN4505
- CCN4506
- CCN4507
- CCN4508
- CCN4509
- CCN6306
- CCN6307
- CCN6308
- CCN6309
- CCN6310
- CCN6311
- CCN6312
- CCN6388 • CCN6389
- CCN6390
- CCN6648
- CCN6649
- CCN6650
- CCN6670
- CCN6671
- CCN6672
- CCN6679
- CCN6688
- CCN6689
- CCN6690
- CCN6691
- CCN6692
- CCN6697
- CCN7534
- CCN7535
- CCN7536
- CCN7537
- CCN8127
- CCN8157
- CCN8421

- CCN8426
- CCN8461
- CCN8462
- CCN8463
- CCN8464
- CCN8465
- CCN8466
- CCN8467
- CCN8468
- CCN8469
- CCN8470
- CCN8471
- CCN8472
- CCN8473
- CCN8474
- CCN8475
- CCN8660
- CCN8661
- CCN8662
- CCN8663
- CCN8664
- CCN8665
- CCN8666
- CCN8667
- CCN8668
- CCN8669
- CCN8670
- CCN8800
- CCN8801
- CCN8816
- CCN8817
- CCN8887
- CCN8888
- CCN8891
- CCN8903
- CCN8918
- CCN8922 • CCN8923
- CCN8925
- CCN8926
- CCN8927
- CCN8931
- CCN8959
- CCN8960
- CCN8966
- CCN8967
- CCN8968
- CCN8969
- CCN8970 • CCN8971
- CCN8972
- CCN8973
- CCN8974
- CCN8975
- CCN8976
- CCN8977

- CCN8978
- CCN8979
- CCN8980
- CCN8981
- CCN8984
- CCN8985
- CDA3505

## Changed information

The following messages are changed for z/OS V2R1 XL C/C++ compiler:

- CCN1131
- CCN2102
- CCN2103
- CCN2104
- CCN2105
- CCN2106
- CCN2107
- CCN2108
- CCN2180
- CCN2181
- CCN2182
- CCN2183
- CCN2464
- CCN2465
- CCN2466
- CCN2474
- CCN2475
- CCN3022
- CCN3420
- CCN3437
- CCN3442
- CCN3443
- CCN3730
- CCN3737
- CCN4430
- CCN5539
- CCN6122 • CCN6280
- CCN6290
- CCN6606
- CCN7643
- CCN8434
- CCN8445
- CCN8460
- CCN8885
- CCN8939
- CDA3419

#### **Deleted** information

The following messages are deleted:

- CCN5734
- CCN5735
- CCN6627
- CCN8921
- CCN8948
- CCN8949

- CCN8951
- CCN8956
- CCN8957
- CCN8965

# Chapter 1. About IBM z/OS XL C/C++

For introductory information concerning z/OS XL C/C++ compiler, including information on the changes that have been made for the current release, see "About IBM z/OS XL C/C++" in z/OS XL C/C++ User's Guide.

# Chapter 2. z/OS XL C/C++ compiler return codes and messages

This topic contains information about the compiler messages and should not be used as programming interface information.

## Return codes

For every compilation job or job step, the compiler generates a return code that indicates to the operating system the degree of success or failure it achieved:

Table 3. Return codes from compilation of a z/OS XL C/C++ program

Return Code	Type of Error Detected	Compilation Result
0	No error detected; informational messages may have been issued.	Compilation completed. Successful execution anticipated.
4	Warning error detected.	Compilation completed. Execution may not be successful.
8	Error detected.	Compilation may have been completed. Successful execution not possible.
12	Severe error detected.	Compilation may have been completed. Successful execution not possible.
16	Terminating error detected.	Compilation terminated abnormally. Successful execution not possible.
33	A library level prior to the z/OS V2R1 Language Environment library level was used.	Compilation terminated abnormally. Successful execution not possible.

The return code indicates the highest possible error severity that the compiler detected. Therefore, a particular entry in the "Type of Error Detected" column, includes *all* error types above it. For example, return code 12 indicates that the compiler has issued a severe error and may have also issued any combination of error, warning, and informational messages. But it does not necessarily mean that all these error types are present in that particular compile.

## Compiler messages

**Message format: CCNnnnn text <&***n***>** or **CCNnnnn text <**&*n*\$*s***>** where:

**nnnn** error message number

**text** message which appears on the screen

&n or &n\$s

compiler substitution variable

CCN0000 &1(&2) Phase(&3) Level(&4)

**Explanation:** This message indicates the version of the compiler component being invoked, or the version of

#### CCN0001 • CCN0049

the library that the component is using. The information can be used to verify the service level of the compiler and help your service representative determine if you have the latest maintenance.

In the message text:

&1 is the string "Product" or "Library", &2 is the product number or a library name, &3 is the compiler phase name and &4 is the version of the compiler phase or the library.

**User response:** In case there is a compiler related problem you should provide this information to your service representative.

#### CCN0001

Incompatible compiler components detected:

&1 is the version from

&2.

&3 is the &4 with which

&5 was compiled.

**Explanation:** One or more compiler components within the compiler data set are out of date.

In the message text:

&1 is a hexadecimal value representing the version of '&2'. &2 is the main compiler component name. &3 is a hexadecimal value representing the version that '&5' expects. &4 is the version of the internal control block. &5 is the name of a compiler component that contains an incompatible internal control block definition.

**User response:** Ensure that the compiler PTFs have been applied without errors. If the problem persists, contact the IBM service representative responsible for your installation.

#### CCN0002

Incompatible options class detected: &1 is the offset of &2 from the &3 component. &4 is the offset of &5

from the &6 component.

**Explanation:** One or more compiler components within the compiler data set are out of date.

In the message text:

&1 is a decimal value representing the offset of '&2'. &2 is the class member whose offset is shown. &3 is the main compiler component name. &4 is a decimal value representing the offset of '&5'. &5 is the class member whose offset is shown. &6 is the name of a compiler component that contains an incompatible internal control block definition.

**User response:** Ensure that the compiler PTFs have been applied without errors. If the problem persists, contact the IBM service representative responsible for your installation.

#### CCN0007

&1 Elapsed Time: &2s, CPU: &3s

**Explanation:** This message reports the approximate amount of time in seconds the indicated compiler phase took to complete.

In the message text:

&1 is the compiler phase name, &2 the elapsed time of the phase in seconds, and &3 the CPU time consumed by the phase in seconds.

**User response:** In case there is a compilation time related problem you should provide this information to your service representative.

#### CCN0008

Source file &1 cannot be opened.

**Explanation:** The compiler could not open the specified source file.

In the message text:

&1 is a file name, enclosed in quotes or angle brackets as specified in the corresponding "include" directive.

**User response:** Ensure the source file name is correct. Ensure that the correct file is being read and has not been corrupted. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN0015

The compiler could not open the output file "&1".

**Explanation:** The compiler could not open the specified output file.

In the message text:

&1 is a file name.

**User response:** Ensure the output file name is correct. Also, ensure that the location of the output file has sufficient storage available. If using a LAN drive, ensure that the LAN is working properly and you have permission to write to the disk.

#### CCN0049

The option "&1" is not supported.

**Explanation:** The command line contained an option that is not supported. Note that some option parameters must not have spaces between the option and the parameter.

In the message text:

&1 is an option.

**User response:** Remove the option. Check the syntax of the options.

CCN0358 The "&1" option is not allowed with the "&2" option.

**Explanation:** The specified options cannot be used together. The first option specified in the message is ignored.

In the message text:

&1 and &2 are both option names.

**User response:** Remove one of the options.

CCN0458 Option &1 is invalid because option &2 is not specified.

**Explanation:** The option &1 is only valid when used in conjunction with &2.

In the message text:

&1 and &2 are both option names.

**User response:** Compile with &2 or remove &1.

CCN0459 An incomplete compile option for "&1" has been specified. "&2" was expected.

**Explanation:** The command line contained an incomplete option. The message identifies what the compiler expected and what it actually found.

In the message text:

&1 is the option name. &2 is the token that was missing.

**User response:** Complete the compile option.

CCN0460 Negative form of option "&1" is not allowed.

**Explanation:** Specified option is not allowed in negative form.

In the message text:

&1 is the option name.

**User response:** Remove the option or change it to the positive form.

CCN0461 "&1" is not a valid suboption for "&2". Option is ignored.

**Explanation:** The command line contained an option with an invalid suboption.

In the message text:

&1 is the option name.

**User response:** Remove the suboption.

CCN0462 "&1" must have a suboption specified.

**Explanation:** The command line contained an option that was missing a suboption.

In the message text:

&1 is the option name.

User response: Specify a suboption.

CCN0463 Suboption is not allowed in "&1" option.

**Explanation:** Suboption is not allowed in the specified option.

In the message text:

&1 is the option name.

**User response:** Remove the suboption.

CCN0464 "&1" requires exactly "&2" sub-option(s) to be specified. "&3" were given.

**Explanation:** The command line contained an option that had an incorrect number of sub-options specified. The sub-option(s) are ignored.

In the message text:

&1 is the option name. &2 is the number of sub-options expected. &3 is the number of sub-options given.

**User response:** Ensure that the correct number of sub-option(s) is given.

CCN0465 "&1" requires at most "&2" sub-option(s) to be specified. "&3" were given.

**Explanation:** The command line contained an option that had more sub-option(s) specified than are allowed. The option is ignored.

In the message text:

&1 is the option name. &2 is the maximum number of suboption(s) allowed. &3 is the number of sub-options given.

**User response:** Ensure that the maximum number of sub-options is not exceeded.

CCN0466 "&1" requires at least "&2" sub-option(s) to be specified. "&3" were given.

**Explanation:** The command line contained an option that had fewer sub-option(s) specified than are required. The option is ignored.

In the message text:

&1 is the option name. &2 is the minimum number of sub-option(s) required. &3 is the number of sub-options given.

#### CCN0569 • CCN0625

**User response:** Ensure that the minimum number of sub-options is specified.

CCN0569 Option "&1" is not supported for &2.

**Explanation:** The option is not supported by this compiler.

In the message text:

&1 is the option name. &2 is either C or C++.

**User response:** Remove the option.

CCN0611 Unable to access options file &1.

**Explanation:** The compiler could not access the specified options file. It was either unable to open it or unable to read it.

In the message text:

&1 is the options file name specified on OPTFILE option.

**User response:** Ensure the options file name and other specifications are correct. Ensure that the access authority is sufficient. Ensure that the file being accessed has not been corrupted.

CCN0612 Option &1 specified in an options file is ignored.

**Explanation:** Option &1 is not allowed in an options file.

In the message text:

&1 is an option name specified in the options file.

**User response:** Remove the &1 option from the options file. Option OPTFILE can not be nested.

CCN0613 The continuation character on the last line of the options file &1 is ignored.

**Explanation:** The continuation character on the last line of a file is unnecessary.

In the message text:

&1 is the options file name.

**User response:** Remove the continuation character on the last line of the options file. Make sure that it is not a typo for something else.

CCN0614 Macro name "&1" contains characters not valid on the "&2" option.

**Explanation:** Macro names can contain only alphanumeric characters and the underscore character and must not begin with a numeric character.

In the message text:

&1 is the invalid macro name and &2 is the option name.

**User response:** Change the macro name.

CCN0615 Semantic function for processing "&1" option is missing.

**Explanation:** Option &1 cannot be processed because its semantic function is missing.

In the message text:

&1 is the option name.

**User response:** Provide the option semantic function.

CCN0616 Options file "&1" is already specified.
All subsequent occurrences are ignored.

**Explanation:** An options file can only be specified once.

In the message text:

&1 is the options file name.

**User response:** Ensure that the options file is specified only once.

CCN0623 Option "&1" ignored because option "&2" specified.

**Explanation:** Specifying the second option indicated means the first has no effect.

In the message text:

&1 and &2 are both option names.

**User response:** Remove one of the options.

CCN0624 &1 is not a valid data set name.

**Explanation:** The data set name is not valid because it is too long.

In the message text:

&1 is a data set name.

**User response:** Use a shorter data set name.

CCN0625 &1 does not exist.

**Explanation:** The data set does not exist.

In the message text:

&1 is a data set name.

**User response:** Supply an existing data set.

CCN0626 There are no members in &1 to compile.

**Explanation:** There are no members in the partitioned data set to compile.

In the message text:

&1 is a data set name.

**User response:** Supply a partitioned data set that contains members.

CCN0627 &1 should be a partitioned data set.

Explanation: A partitioned data set is expected.

In the message text:

&1 is a data set name.

User response: Supply a partitioned data set.

CCN0628 &1 should not be a partitioned data set.

Explanation: A non-partitioned data set is expected.

In the message text:

&1 is a data set name.

**User response:** Supply a non-partitioned data set.

CCN0629 &1 has invalid attributes.

**Explanation:** The attributes of the data set do not match the attributes expected by the compiler.

In the message text:

&1 is a data set name.

**User response:** Check the informational messages issued with this message and change the data set attributes accordingly.

CCN0630 &1 has attributes &2.

**Explanation:** The data set has the attributes indicated.

In the message text:

&1 is a data set name, &2 is a set of data set attributes.

**User response:** No user response is required.

CCN0631 The attributes should be &1.

Explanation: The data set should have the attributes

indicated.

In the message text:

&1 is a set of data set attributes.

**User response:** No user response is required.

CCN0632 The attributes should be one of the following:

Explanation: The data set should have one of the sets

of attributes indicated.

**User response:** No user response is required.

CCN0633 Unable to allocate &1.

Explanation: Unable to allocate the data set.

In the message text:

&1 is a data set name.

User response: Check that the data set has a valid

name and can be accessed.

CCN0634 Unable to load &1. Compilation terminated.

**Explanation:** Unable to fetch one of the compiler

phases.

In the message text:

&1 is the name of a program module.

**User response:** Check that the compiler is installed correctly. Make sure there is enough memory in the region to fetch the module. You may need to specify the runtime option HEAP(,,,FREE,,) to prevent the compiler from running out of memory.

CCN0635 Timestamp error on &1.

**Explanation:** Timestamp error while compiling a partitioned data set.

In the message text:

&1 is a data set name.

User response: Check to see if the data set is

corrupted.

CCN0636 The file allocated to &1 cannot be opened, because it is already opened by another process.

**Explanation:** The file allocated to the DD name was opened for output by another process.

In the message text:

&1 is a DD name.

**User response:** Ensure that the file is not shared for

output.

CCN0637 Unable to locate CICS translator.

**Explanation:** The CICS option was enabled but the compiler could not load the CICS translator.

**User response:** Ensure that CICS is correctly installed

on the system and is included during the compile.

#### CCN0702

An error was encountered in accessing the alternate ddname table. The default ddnames will be used.

**Explanation:** The compiler could not access the alternate ddname table. Compilation will continue, using the default ddname table.

**User response:** Check that the alternate ddname table was coded correctly.

#### CCN0703

An error was encountered in a call to &1 while processing &2.

**Explanation:** A library function called by the compiler encountered an error. The compiler will issue a perror() message with more specific information on the failure.

In the message text:

&1 is the name of the library function. &2 is the name of the file or path.

**User response:** If the file was created by the user, verify that it was created correctly; See the programmer response for the accompanying perror() message for additional information.

#### CCN0704

There are no files with the default extension in &1.

**Explanation:** There are no files in the given directory which match the default extension. The compiler returned without compiling any files.

In the message text:

&1 is a directory name.

**User response:** Supply a directory which contains files with the appropriate extension. The default extension for C is ".c" and the default extension for C++ is ".C".

#### CCN0705

The output file &1 is not supported in combination with source file &2.

**Explanation:** The output file specified in a compiler option is of a type which is not supported in combination with the type of the source file. An informational message describing supported output file types for the given source file type follows.

In the message text:

&1 is an output file specified in a compiler option, and &2 is the source file to be compiled.

**User response:** Supply an output file of one of the supported types in the compiler sub-option, or let the compiler generate a default output file name.

#### CCN0706

The source file is a CMS file. The suboption should specify a CMS file or a BFS file in an existing directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0707

The source file is a BFS file. The suboption should specify a CMS file, a BFS file in an existing directory, or an existing BFS directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0708

The source file is a BFS directory. The suboption should specify an existing BFS directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0709

The source file is a Sequential data set. The suboption should specify a sequential data set, a PDS member, or a UNIX file in an existing directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0710

The source file is a PDS member. The suboption should specify a sequential data set, a PDS member, a PDS, a UNIX file in an existing directory, or an existing UNIX directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0711

The source file is a PDS. The suboption should specify a PDS or an existing UNIX directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0712

The source file is a UNIX file. The suboption should specify a sequential data set, a PDS member, a UNIX file in an existing directory, or an existing UNIX directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0713

The source file is a UNIX directory. The suboption should specify an existing UNIX directory.

**Explanation:** The output file specified in the suboption has a type that is incompatible with the source file type.

**User response:** Specify an output file with a compatible type as indicated in the message.

#### CCN0721

Option "&1" cannot be specified with option "&2". Option "&3" is ignored.

**Explanation:** A SEARCH or LSEARCH option cannot be specified on the same compiler invocation with a SYSPATH or USERPATH option. All previous specifications of the conflicting options are ignored.

In the message text:

&1 option name, &2 option name, &3 option name.

**User response:** Use the correct syntax for specifying the option

#### CCN0745

&1 should be a partitioned data set or UNIX directory.

**Explanation:** A partitioned data set or UNIX directory is expected.

In the message text:

&1 is a data set name.

**User response:** Supply a partitioned data set or UNIX directory.

#### CCN0750

Suboptions "&1" and "&2" of option "&3" conflict.

**Explanation:** Sub-options of the specified option are in conflict with each other.

In the message text:

&3 is the option name. &1 and &2 are the sub-option names.

**User response:** Change the sub-option.

#### CCN0756

The data definition name "&1" cannot be resolved. File "&2" could not be opened:

**Explanation:** The compiler tried to open the indicated file and associate it with the indicated data definition name. However, the file could not be opened. This is usually because the file does not exist, or you do not have permission to use the file.

In the message text:

&1 is the data definition name. &2 is the file name.

**User response:** Specify an existing file name to which you have permission.

#### CCN0757

The data definition name "&1" cannot be resolved. Information for character special file "&2", needed to allocate file "&3", cannot be obtained:

**Explanation: fdN** character special files are used for all path name allocations. The compiler tried to validate the indicated character special file by using the **stat** function, but that function failed. The compiler cannot use the indicated file without the indicated character special file.

In the message text:

&1 is the data definition name. &2 is the character special file name. &3 is the real path name.

**System programmer response:** Ensure that the fdN character special files were correctly created with the mknod command, and that there are enough of them.

**User response:** Retry the compile. If the problem persists, contact the IBM service representative responsible for your installation.

### CCN0758

The data definition name "&1" cannot be resolved. File "&2", needed to allocate file "&3", is not character special.

**Explanation:** fdN character special files are used for all path name allocations. The compiler validated the indicated character special file, using the **stat** function, and determined that the indicated file is not a character special file. The compiler cannot use the indicated file

#### CCN0759 • CCN0791

without the indicated character special file.

In the message text:

&1 is the data definition name. &2 is the character special file name. &3 is the real path name.

System programmer response: Ensure that the fdN character special files were correctly created with the mknod command, and that there are enough of them.

User response: Retry the compile. If the problem persists, contact the IBM service representative responsible for your installation.

#### CCN0759

The data definition name "&1" cannot be resolved. Character special file "&2", needed to allocate file "&3", is not major

Explanation: fdN character special files are used for all path name allocations. The compiler validated the indicated character special file, using the stat function, and determined that the indicated character special file does not have the correct major number. The compiler cannot use the indicated file without the indicated character special file.

In the message text:

&1 is the data definition name. &2 is the character special file name. &3 is the real path name.

System programmer response: Ensure that the fdN character special files were correctly created with the mknod command, and that there are enough of them.

**User response:** Retry the compile. If the problem persists, contact the IBM service representative responsible for your installation.

#### CCN0760

The data definition name "&1" cannot be resolved. Character special file "&2", needed to allocate file "&3", is not minor "&4".

Explanation: fdN character special files are used for all path name allocations. The compiler validated the indicated character special file, using the stat function, and determined that the indicated character special file does not have the correct minor number. The compiler cannot use the indicated file without the indicated character special file.

In the message text:

&1 is the data definition name. &2 is the character special file name. &3 is the real path name. &4 is the minor number.

System programmer response: Ensure that the fdN character special files were correctly created with the **mknod** command, and that there are enough of them.

**User response:** Retry the compile. If the problem persists, contact the IBM service representative

responsible for your installation.

#### CCN0764 Compiler cannot create temporary files.

**Explanation:** The intermediate code files could not be created. Please verify that the target file system exists, is writable and is not full.

**User response:** Ensure that the designated location for temporary objects exists, is writable and is not full.

#### **CCN0767**

The "&1" feature of z/OS is not enabled. Contact your system programmer.

**Explanation:** This feature of z/OS is not enabled at your installation.

In the message text:

&1 is the feature name.

**User response:** Your system programmer can contact IBM z/OS service to have this element enabled.

#### CCN0768 Compiling "&1".

**Explanation:** Informational message issued during PDS or UNIX directory compiles to indicate when the compiler has started compiling the next member.

In the message text:

&1 is the member name.

**User response:** No user action is required.

#### CCN0770

The name &1 is invalid. Please correct and recompile.

**Explanation:** The name shown is invalid.

In the message text:

&1 is the file name.

**User response:** Please correct the name and retry.

#### CCN0790

Options "&1" and "&2" are in conflict.

**Explanation:** The specified options cannot be used together.

In the message text:

&1 and &2 are both option names.

**User response:** Remove one of the options.

#### CCN0791

Options "&1" and "&2" are not compatible.

**Explanation:** The specified options cannot be used together.

In the message text:

&1 and &2 are both option names.

**User response:** Change option values.

CCN0793 Compilation failed for file &1. Object file not created.

**Explanation:** The compiler detected an error and terminated the compilation. Object file was not created.

In the message text:

&1 is a file name

**User response:** Correct the reported errors and recompile.

### CCN0795 Unable to open existing data set &1.

**Explanation:** Although the data set exists, the compiler was unable to open and/or obtain file information about it.

In the message text:

&1 is a data set name.

**User response:** Check the informational messages issued with this message and correct the corresponding problems associated with the data set.

# CCN0796 This compiler requires a runtime environment \_\_librel() value of &1.

**Explanation:** The compiler cannot run with the current runtime environment because it needs the runtime release indicated.

In the message text:

&1 is the required runtime level in the \_\_librel() format.

**User response:** Check the informational message issued with this message to determine your current runtime release. Make sure you are running with the runtime environment required.

# CCN0797 You are currently running with the runtime environment &1.

**Explanation:** The message displays the current runtime level installed on your system.

In the message text:

&1 is the current runtime level in the \_\_librel() format.

**User response:** No user response is required.

# CCN0822 Option &1 is locked and cannot be changed.

**Explanation:** The option has been locked during system installation. The option settings cannot be changed.

In the message text:

&1 is an option name.

**User response:** Remove the option from the command line, or ask the system programmer to unlock the option.

#### CCN0823 Lock suboption &1 is not supported.

**Explanation:** The lock suboption specified is not supported and is ignored.

In the message text:

&1 is an option name.

**User response:** The suboption to the lock option must itself be a valid option. The lock option is set during compiler installation. Check with the system programmer.

# CCN0832 Option "&1" was set because option "&2" required it.

**Explanation:** The compiler requires both options to be specified.

In the message text:

&1 and &2 are both option names.

**User response:** Ensure that both options are set.

# CCN0833 "&1" is not compatible with "&2". "&3" is being set.

**Explanation:** The option is not compatible with another option so it is ignored.

In the message text:

&1, &2 and &3 are all option names.

User response: Remove one of the options.

## CCN0834 The blocksize "&1" specified in "&2" exceeds maximum valid size of "&3".

**Explanation:** The blocksize specified is too large and will be ignored.

In the message text:

&1 and &3 are integers, &2 the name of the parameter controlling the SPACE allocation.

**User response:** Set the blocksize to a smaller, valid value.

# CCN0835 TARGET suboption "&1" is discontinued. Unexpected behavior might occur if an out-of-support TARGET level is specified. Use a TARGET level of "&2", or later instead.

**Explanation:** The specified target suboption is not supported.

In the message text:

#### CCN1001 • CCN1054

&1 is the identifier of the unsupported target level. &2 is the identifier of the earliest supported target level.

**User response:** Specify a target level of "&2", or later.

#### CCN1001 INTERNAL COMPILER ERROR: &1.

**Explanation:** An internal compiler error occurred during compilation.

User response: Contact your Service Representative. For more information visit: http://www.ibm.com/ support/docview.wss?uid=swg21110810

#### CCN1002 Virtual storage exceeded.

Explanation: The compiler ran out of memory trying to compile the file. This sometimes happens with large files or programs with large functions. Note that very large programs limit the amount of optimization that can be done.

User response: Shut down any large processes that are running or increase your TSO region size. You can also divide the file into several small sections or shorten the function.

#### CCN1003 &1.

**Explanation:** General error message.

In the message text:

&1 is the detailed message text.

**User response:** There is no user response for this message.

#### CCN1031 Unable to open file "&1".

**Explanation:** The compiler could not open the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Ensure that the correct file is specified. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN1032 An error occurred while reading file "&1".

**Explanation:** The compiler detected an error while reading from the specified file.

In the message text:

&1 is a file name.

User response: Ensure that the correct file is being read and has not been damaged. If the file is located on a LAN drive, ensure the LAN is working properly.

#### CCN1033 An error occurred while writing to file "&1".

**Explanation:** The compiler detected an error while writing to the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure that the correct file is specified. If the file is located on a LAN drive, ensure the LAN is working properly.

#### CCN1034 Read-only pointer initialization of dynamically allocated object &1 is not valid.

Explanation: The value of a read-only pointer must be known at compile time; a pointer cannot be read-only and point to a dynamically allocated object at the same time because the address of the pointee is known at run time only.

**User response:** Modify the code so that the pointer is initialized with a read-only value or make the pointer read-write.

#### CCN1051 Function &1 exceeds size limit.

**Explanation:** The ACU for the function exceeds the LIMIT specified in the INLINE suboption.

**User response:** Increase LIMIT if feasible to do so.

#### CCN1052 Function &1 is (or grows) too large to be inlined.

**Explanation:** A function is too large to be inlined into another function.

**User response:** Use #pragma inline if feasible to do so.

#### CCN1053 Some calls to function &1 cannot be inlined.

**Explanation:** At least one call is either directly recursive, or the wrong number of parameters were specified.

User response: Check all calls to the function specified and make that number of parameters match the function definition.

#### CCN1054 Automatic storage for function &1 increased to over &2.

**Explanation:** The size of automatic storage for function increased by at least 4 KB due to inlining.

User response: Avoid inlining of functions which have large automatic storage.

#### CCN1055

Parameter area overflow while compiling &1. Parameter area size exceeds the allowable limit of &2.

**Explanation:** The parameter area for a function resides in the first 4K of automatic storage for that function. This message indicates that the parameter area cannot fit into 4K.

**User response:** Reduce the size of the parameter area by passing fewer parameters or by passing the address of a large structure rather than the structure itself.

#### CCN1057

&1 section size cannot exceed 16777215 bytes. Total section size is &2 bytes.

**Explanation:** A Data or Code section cannot exceed 16M in size.

**User response:** Partition input source files into multiple source files which can be compiled separately.

# CCN1101 Maximum spill size of &2 is exceeded in function &1.

**Explanation:** Spill size is the size of the spill area. Spill area is the storage allocated if the number of machine registers is not sufficient for program translation.

**User response:** Reduce the complexity of the program and recompile.

#### CCN1102

Spill size for function &1 is not sufficient. Recompile specifying option SPILL(n) where  $\&2 < n \le \&3$ .

**Explanation:** Spill size is the size of the spill area. Spill area is the storage allocated if the number of machine registers is not sufficient for program translation.

**User response:** Recompile using the SPILL(n) option  $\&2 < n \le \&3$  or with a different OPT level.

# CCN1103 Internal error while compiling function &1. &2.

**Explanation:** An internal compiler error occurred during compilation.

**User response:** Contact your Service Representative or compile with a different OPT level. For more information visit: http://www.ibm.com/support/docview.ws s?uid=swg21110810

#### CCN1104

Internal error while compiling function &1. &2. Compilation terminated.

**Explanation:** An internal compiler error of high severity has occurred.

**User response:** Contact your Service Representative. Be prepared to quote the text of this message. For more information visit: http://www.ibm.com/support/do

cview.wss?uid=swg21110810

### CCN1105

Constant table overflow compiling function &1. Compilation terminated.

**Explanation:** The constant table is the table that stores all the integer and floating point constants.

**User response:** Reduce the number of constants in the program and recompile.

#### **CCN1106**

Instruction in function &1 on line &2 is too complex. Compilation terminated.

**Explanation:** The specified instruction is too complex to be optimized.

**User response:** Reduce the complexity of the instruction and recompile, or recompile with a different OPT level.

## CCN1107 Program too complex in function &1.

**Explanation:** The specified function is too complex to be optimized.

**User response:** Reduce the complexity of the program and recompile, or recompile with a different OPT level.

#### **CCN1108**

Expression too complex in function &1. Some optimizations not performed.

**Explanation:** The specified expression is too complex to be optimized.

**User response:** Reduce the complexity of the expression or compile with a different OPT level.

#### CCN1109

Infinite loop detected in function &1. Program may not stop.

**Explanation:** An infinite loop has been detected in the given function.

**User response:** Recode the loop so that it will end.

## CCN1110

Loop too complex in function &1. Some optimizations not performed.

**Explanation:** The specified loop is too complex to be optimized.

**User response:** No action is required.

#### CCN1111

Division by zero detected in function &1. Runtime exception may occur.

**Explanation:** A division by zero has been detected in the given function.

**User response:** Recode the expression to eliminate the divide by zero.

#### CCN1112 • CCN1123

#### CCN1112

Exponent is non-positive with zero as base in function &1. Runtime exception may occur.

**Explanation:** This is a possible floating-point divide

by zero.

**User response:** Recode the expression to eliminate the divide by zero.

#### **CCN1113**

Unsigned division by zero detected in function &1. Runtime exception may

Explanation: A division by zero has been detected in the given function.

User response: Recode the expression to eliminate the divide by zero.

#### **CCN1114**

Internal error while compiling function &1. &2.

Explanation: An internal compiler error of low severity has occurred.

User response: Contact your Service Representative or compile with a different OPT level. For more information visit: http://www.ibm.com/support/ docview.ws s?uid=swg21110810

#### **CCN1115**

Control flow too complex in function &1; number of basic blocks or edges exceeds &2.

**Explanation:** Basic blocks are segments of executable code without control flow. Edges are the possible paths of control flow between basic blocks.

**User response:** Reduce the complexity of the program and recompile.

#### **CCN1116**

Too many expressions in function &1; number of symbolic registers exceeds

Explanation: Symbolic registers are the internal representation of the results of computations.

**User response:** Reduce the complexity of the program and recompile.

#### **CCN1117**

Too many expressions in function &1; number of computation table entries

Explanation: The computation table contains all instructions generated in the translation of a program.

User response: Reduce the complexity of the program and recompile.

#### **CCN1118**

Too many instructions in function &1; number of procedure list entries exceeds

**Explanation:** The procedure list is the list of all instructions generated by the translation of each subprogram.

**User response:** Reduce the complexity of the program and recompile.

### CCN1119

Number of labels in function &1 exceeds &2.

**Explanation:** Labels are used whenever the execution path of the program could change; for example: if statements, switch statements, loops or conditional expressions.

**User response:** Reduce the complexity of the program and recompile.

#### CCN1120

Too many symbols in function &1; number of dictionary entries exceeds

Explanation: Dictionary entries are used for variables, aggregate members, string literals, pointer dereferences, function names and internal compiler symbols.

**User response:** Compile the program at a lower level of optimization or simplify the program by reducing the number of variables or expressions.

#### CCN1121

Program is too complex in function &1. Specify MAXMEM option value greater than &2.

**Explanation:** Some optimizations not performed.

User response: Recompile specifying option MAXMEM with the suggested value for additional optimization.

#### **CCN1122**

Parameter area overflow while compiling &1. Parameter area size exceeds &2.

**Explanation:** The parameter area is used to pass parameters when calling functions. Its size depends on the number of reference parameters, the number and size of value parameters, and on the linkage used.

**User response:** Reduce the size of the parameter area by passing fewer parameters or by passing the address of a large structure rather than the structure itself.

#### CCN1123

Spill size for function &1 is exceeded. Recompile specifying option SPILL(n) where  $\&2 < n \le \&3$  for faster spill

**Explanation:** Spill size is the reserved size of the

primary spill area. Spill area is the storage allocated if the number of machine registers is not sufficient for program translation.

**User response:** Recompile using the SPILL(n) option  $\&2 < n \le \&3$  for improved spill code generation.

### CCN1130 An error occurred while opening file

**Explanation:** The compiler could not open the specified file.

In the message text:

&1 is a file name

**User response:** Ensure the file name is correct. Ensure that the correct file is being opened and has not been damaged. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

### CCN1131 An error occurred while writing file

**Explanation:** The compiler could not write to the specified file.

In the message text:

&1 is a file name

**User response:** Ensure the file name is correct. Ensure that the correct file is being written to and has not been damaged. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

### CCN1132 An error occurred while closing file "&1".

**Explanation:** The compiler could not write to the specified file.

In the message text:

&1 is a file name

**User response:** Ensure the file name is correct. Ensure that the correct file is being closed and has not been damaged. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN1141 Automatic area for &1 is too large.

**Explanation:** Automatic data resides in the stack; the stack size is limited by the target machine addressabilty.

**User response:** Avoid large structures and / or arrays as local variables; try using dynamically allocated data.

Alternatively, try to break down the procedure into several smaller procedures.

# CCN1142 NOSTRICT may alter the semantics of a program.

**Explanation:** The NOSTRICT option has the potential to alter the semantics of a program. NOSTRICT is the default for high levels of optimization, such as OPT(3). Please refer to documentation on the STRICT/NOSTRICT option for more information.

**User response:** Please refer to the documentation of the STRICT/NOSTRICT option to ensure that this option will not alter the semantics of your program.

#### CCN1143 The register name "&2" is unknown.

**Explanation:** The register name in the clobber set of the asm statement is not recognized. The clobbered register information is ignored.

In the message text:

&2 is a register name.

**User response:** Correct the name of the clobbered register.

## CCN1144 Too many registers are required in the asm statement.

**Explanation:** The asm statement cannot be compiled because it requires too many registers.

**User response:** Reduce the complexity of the asm statement.

### CCN1145 The function "&1" could not be inlined into "&2".

**Explanation:** Function inlining is the process of replacing a call to a routine with the actual code for that routine.

In the message text:

&1 is the name of the function to be inlined. &2 is the name of the function to be inlined into.

**User response:** Remove the function attribute "always\_inline" or refer to the inlining report for the reason why the function could not be inlined.

### CCN1146 "&2", line &3: "&4" is used before it is set.

**Explanation:** Variable &4 is used before it is initialized at line &3.

**Response:** Check and make sure variable &4 is initialized before use.

#### CCN1147 • CCN1506

CCN1147 "&2", line &3: "&4" might be used before it is set.

**Explanation:** Variable &4 might be used before it is initialized at line &3.

**Response:** Check and make sure variable &4 is initialized before use.

CCN1148 The HLASM interface module ASMA96 could not be loaded.

**Explanation:** The module ASMA96 was not found or virtual storage was unavailable.

**Response:** Make sure the ASM.SASMMOD1 dataset is in your search path.

CCN1149 Inline assembly statements caused HLASM RC=&1 with the following

messages:

**Explanation:** Check for the cause of the assembler messages.

**Response:** With the LIST option, the assembler messages are placed after the assembly statements in question in the pseudo-assembly listing.

CCN1150 Inline assembly statements caused HLASM RC=&1.

**Explanation:** Check for the cause of the assembler messages.

**Response:** With the LIST option, the assembler messages are placed after the assembly statements in question in the pseudo-assembly listing.

CCN1151 Inline assembly statements caused HLASM RC=&1. Compilation terminated.

**Explanation:** Fix the inline assembly statements that caused the error.

**Response:** With the LIST option, the assembler error messages are placed after the assembly statements in error in the pseudo-assembly listing.

CCN1152 GPR &2 in \_asm on line &1 should not be clobbered.

**Explanation:** The content in GPR &2 is defined by the compiler generated code. Altering this register can lead to execution error.

Response: Choose another register.

### CCN1501 INTERNAL COMPILER ERROR: Procedure %1\$s.

**Explanation:** An internal compiler error occurred during compilation.

In the message text:

%1\$s is the procedure where the error has occured.

**User response:** This is an internal error. Provide the indicated error text to the IBM service representative responsible for your installation.

#### CCN1502 Unable to open file %1\$s for processing.

**Explanation:** The system cannot open the file for processing.

In the message text:

%1\$s is the processing file name.

**User response:** Make sure the file is available and not in use.

# CCN1503 Unable to allocate memory for processing.

**Explanation:** The compiler ran out of memory generating debug information for this file. This sometimes happens with large files. Note that a very large program may produce a very large amount of debugging information.

**User response:** Shut down any large processes that are running or increase your TSO region size. You can also divide the file into several small sections or shorten the function.

#### CCN1504 Unable to find any debug information.

**Explanation:** No debug information is generated for this compilation unit.

**User response:** Make sure the source file contains code or data.

#### CCN1505 Debug information may be incomplete.

**Explanation:** The debug information generated may be corrupted or incomplete.

**User response:** This is an internal error. Provide the indicated error text to the IBM service representative responsible for your installation.

# CCN1506 Unable to resolve the absolute pathname for the generated debug side file.

**Explanation:** The compiler cannot record the absolute pathname of the generated debug side file into an object file. A relative pathname is used instead.

**User response:** Make sure all the components for the generated debug side file have the proper read and execute permission set.

#### CCN1508 The DLL %1\$s is not found.

**Explanation:** The indicated Common Debug Architecture run-time library cannot be found.

In the message text:

%1\$s is the name of the Common Debug Architecture run-time library.

**User response:** The indicated Common Debug Architecture run-time library should be installed in the SCEERUN2 data set. Verify that the run-time library is installed properly.

#### CCN1509

An incompatible DLL has been detected.

The compiler requires LIBDDPI\_DLL\_VERSION to be at

least 0x%1\$.8x.

The version found in the system is 0x%2\$.8x.

**Explanation:** The Common Debug Architecture run-time library version is outdated.

In the message text:

%1\$x is the Common Debug Architecture run-time library that CCNEDWRT is compiled with. %2\$x is the Common Debug Architecture run-time library that is currently being used.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run-time library installed.

#### CCN1510

An incompatible DLL has been detected.

The compiler requires

LIBELF\_DLL\_VERSION to be at least

0x%1\$.8x.

The version found in the system is 0x%2\$.8x.

**Explanation:** The Common Debug Architecture run-time library version is outdated.

In the message text:

%1\$x is the Common Debug Architecture run-time library that CCNEDWRT is compiled with. %2\$x is the Common Debug Architecture run-time library that is currently being used.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run-time library installed.

#### CCN1511

Cannot find the function %1\$s in DLL %2\$s.

**Explanation:** The indicated function cannot be found in the Common Debug Architecture run-time library.

In the message text:

%1\$s is the name of the function in the Common Debug Architecture run-time library. %2\$s is the name of the Common Debug Architecture run-time library.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run-time library installed.

#### CCN2000 (

Option "&1" is not recognized.

Explanation: An invalid option was specified.

In the message text:

&1 is the option name

**User response:** Correct the spelling of the option.

#### CCN2001

Suboption "&1" of option "&2" is not supported.

**Explanation:** The invocation option contained an unsupported suboption.

In the message text:

&2 is the option name. &1 is the suboption name.

**User response:** Change the suboption. Check the syntax of the suboption.

#### CCN2002

Required parameters for option "&1" are not specified.

**Explanation:** This option requires that one or more parameters be specified.

In the message text:

&1 is the option name

**User response:** Specify appropriate parameters for the option. Check the option syntax for details.

#### CCN2003

Parameter "&1" of option "&2" is not supported.

**Explanation:** The parameter for the specified option has invalid syntax.

In the message text:

&2 is the option name. &1 is the option parameter.

**User response:** Change the option parameter. Check the syntax of the option parameter.

CCN2004 Option "&1" parameter error; "&2" is not a digit.

**Explanation:** A non-numeric character was found in the option parameter.

In the message text:

&1 is the option name. &2 is invalid character.

**User response:** Change the option parameter. Check the syntax of the option.

#### CCN2005 "&1" is not a decimal number.

**Explanation:** A non-numeric character was found in the option parameter.

In the message text:

&1 is the invalid character.

**User response:** Change the option parameter. Check the syntax of the option.

# CCN2006 The name in option LOCALE (&1) is not valid. The option is reset to NOLOCALE.

**Explanation:** The specified locale is not installed on the host system.

**User response:** Change the value of the LOCALE option to the name of a locale which has been installed on the host system.

## CCN2007 Suboption "&1" of option "&2" is not supported.

**Explanation:** The invocation option contained an unsupported suboption.

In the message text:

&2 is the option name. &1 is the suboption name.

**User response:** Change the suboption. Check the syntax of the suboption.

# CCN2010 "&1" requires "&2" suboptions to be specified. "&3" are specified.

**Explanation:** An incorrect number of suboptions was specified for this option. The message identifies the number of suboptions the compiler expected and the number it actually found.

In the message text:

&1 is the option name. &2 is the number of options expected. &3 is the number of options specified.

**User response:** Ensure the correct number of suboptions are specified.

# CCN2011 At most "&2" suboptions must be specified for &1. "&3" are specified.

**Explanation:** Too many suboptions were specified for this option.

In the message text:

&1 is the option name. &2 is the number of options expected. &3 is the number of options specified.

**User response:** Ensure that the maximum number of suboptions is not exceeded.

# CCN2012 "&1" requires at least "&2" suboptions to be specified. "&3" are specified.

**Explanation:** Not enough suboptions were specified for this option.

In the message text:

&1 is the option name. &2 is the number of options expected. &3 is the number of options specified.

**User response:** Ensure that the minimum number of suboptions are specified.

### CCN2013 Suboptions "&1" and "&2" of option "&3" conflict.

**Explanation:** The specified suboptions of the specified option are in conflict.

In the message text:

&3 is the option name. &1 and &2 are the suboption names.

**User response:** Determine which suboption is required. Remove the other suboption to eliminate the conflict.

## CCN2015 Incompatible specifications for options ARCH and TUNE.

**Explanation:** As documented in the User Guide, only certain ARCH/TUNE combinations are compatible.

**User response:** Determine what target machine/architecture family is desired and select a compatible target machine for tuning.

# CCN2020 Option "&1" is turned on because option "&2" is specified.

**Explanation:** If you specify option &2, the compiler turns on option &1 to achieve a better options combination.

In the message text:

&1 and &2 are both option names.

**User response:** Specify option &1 to eliminate this message.

CCN2021 Option "&1" is ignored because option "&2" was specified.

**Explanation:** Specifying the second option indicated means the first has no effect.

In the message text:

&1 and &2 are both option names.

User response: Remove one of the options.

CCN2022 Option "&1" is not supported for IPA processing.

**Explanation:** The specified option (or corresponding #pragma) is not supported for an IPA compilation. Processing is terminated.

In the message text:

&1 is an option name.

**User response:** Correct the option or #pragma specification, as appropriate.

CCN2023 Option "&1" has been promoted to "&2" because option "&3" was specified.

**Explanation:** Specifying the &3 option caused sufficient information to be available to support the &2 option instead of the &1 option.

In the message text:

&1, &2 and &3 are all option names.

**User response:** No user response is required.

CCN2024 Option "&1" is no longer supported as a valid compiler option. Suggested alternative option(s) are: &2

**Explanation:** The specified option (or corresponding #pragma) is no longer supported for this version of the compiler. Option will be ignored.

In the message text:

&1 and &2 are both option names.

**User response:** Remove the option or #pragma specification, as appropriate.

CCN2030 &1

**Explanation:** General informational message.

In the message text:

&1 is the detailed message text.

**User response:** The user response is based on the text of the message. For further information contact your Service Representative.

CCN2031 &1

Explanation: General warning message.

In the message text:

&1 is the detailed message text.

**User response:** The user response is based on the text of the message. For further information contact your Service Representative.

CCN2032 &1

Explanation: General error message.

In the message text:

&1 is the detailed message text.

**User response:** The user response is based on the text of the message. For further information contact your Service Representative.

CCN2033 &1

**Explanation:** General severe error message.

In the message text:

&1 is the detailed message text.

**User response:** The user response is based on the text of the message. For further information contact your Service Representative.

CCN2034

The STRICT option is unsupported by IPA Link. The strict settings defined in the compilation unit will be used and processing continues without this option.

**Explanation:** The STRICT option cannot be overridden at IPA Link.

Response: Remove the STRICT option from IPA Link.

CCN2050 IPA Link control file: Syntax error.

**Explanation:** A syntax error was detected in the IPA Link control file. Processing is terminated.

**User response:** Correct the IPA Link control file

syntax.

CCN2051 IPA Link control file: Unmatched quote.

**Explanation:** A quoted string representing a directive operand was detected in the IPA Link control file, but this string was not terminated by a matching quote before the end of file. Processing is terminated.

**User response:** Correct the IPA Link control file operand syntax.

#### CCN2052 IPA Link control file: Directive "&1" is incorrect.

**Explanation:** An incorrectly specified directive was detected in the IPA Link control file. The directive is ignored, and processing continues.

In the message text:

&1 is the directive in error.

User response: Correct the specified directive in the IPA Link control file.

#### CCN2053 IPA Link control file: &1.

**Explanation:** An error was detected in the IPA Link control file. Processing is terminated.

In the message text:

&1 is the detailed message text.

**User response:** Correct the specified IPA Link control file error.

#### CCN2059 IPA Link control file: INTERNAL COMPILER ERROR - &1.

**Explanation:** An internal compiler error occurred during processing of the IPA Link control file.

In the message text:

&1 is the detailed message text.

User response: Contact your Service Representative and provide the detailed message text. For more information visit: http://www.ibm.com/support/ docview.wss ?uid=swg21110810

#### CCN2060 CSECT name entry &1 ("&2") is not unique. It conflicts with entry &3.

**Explanation:** The specified CSECT name prefix entry in the IPA Link control file duplicates an previous CSECT name prefix entry.

In the message text:

&1 and &3 are CSECT name entry numbers, &2 is the CSECT name entry.

**User response:** Provide a unique value for the CSECT name prefix that caused the conflict.

#### CCN2061 A CSECT name prefix is not specified for partition &1. The CSECT option is active.

Explanation: The CSECT option is active, which requires that a CSECT name prefix entry be specified in the IPA Link control file for each partition in the generated object module. A system-generated name prefix has been provided for the current partition.

In the message text:

&1 is the number of the current partition.

**User response:** Provide one or more additional CSECT name prefixes so that each partition will have a unique

#### CCN2062 A CSECT name prefix is not specified for partition &1.

**Explanation:** One or more CSECT name prefixes were specified in the IPA Link control file, but there were insufficient entries for all partitions in the generated object module. The CSECT option is not active, so these missing names are not considered an error. A system-generated name prefix has been provided for the current partition.

In the message text:

&1 is the number of the current partition.

**User response:** Provide one or more additional CSECT name prefixes so that each partition will have a unique name.

#### IPA Link control file: Directive "&1" is CCN2063 ignored because option "&2" was specified.

**Explanation:** The directive in the IPA Link control file is not supported with the option. The directive is ignored, and processing continues.

In the message text:

&1 is the directive. &2 is the option name

**User response:** Remove the directive.

#### **CCN2100** No object files were specified as input to the IPA Link step.

**Explanation:** No object files were specified for IPA Link step processing.

**User response:** Specify at least one object file.

#### CCN2101 No IPA object was found.

Explanation: IPA object information was not found during IPA Link step processing.

**User response:** Ensure that the appropriate object files include IPA object information.

#### CCN2102 IPA object information is missing "&1" records.

Explanation: A damaged IPA object file was encountered during IPA Link step processing.

In the message text:

&1 is an object record type.

**User response:** Recompile the source file and try IPA

Link step processing again. If the problem persists, call your Service Representative.

### CCN2103 IPA object information has invalid "&1" record.

**Explanation:** A damaged IPA object file was encountered during IPA Link step processing.

In the message text:

&1 is an object record type.

**User response:** Recompile the source file and try IPA Link step processing again. If the problem persists, call your Service Representative.

### CCN2104 Object information is missing "&1" records.

**Explanation:** A damaged non-IPA object file was encountered during IPA Link step processing.

In the message text:

&1 is an object record type.

**User response:** Recompile the source file and try IPA Link step processing again. If the problem persists, call your Service Representative.

### CCN2105 Object information has an invalid "&1" record.

**Explanation:** A damaged non-IPA object file was encountered during IPA Link step processing.

In the message text:

&1 is an object record type.

**User response:** Recompile the source file and try IPA Link step processing again. If the problem persists, call your Service Representative.

## CCN2106 An error was encountered during object information processing.

**Explanation:** A damaged or incompatible object file was encountered during IPA Link step processing.

In the message text:

&1 is an object record type.

**User response:** Recompile the source file and try IPA Link step processing again. If the problem persists, call your Service Representative.

# CCN2107 "&1" is not the first symbol on the object record.

**Explanation:** A damaged IPA object file was encountered during IPA Link step processing.

In the message text:

&1 is an object record type.

**User response:** Recompile the source file and try IPA Link step processing again. If the problem persists, call your Service Representative.

#### CCN2108 Object information has incorrect format.

**Explanation:** An object file with an incorrect format was encountered during IPA Link step processing.

**User response:** Recompile the source file and try IPA Link step processing again. If the problem persists, call your Service Representative.

## CCN2109 Generated file is too big. Reduce partition size or turn off IPA.

**Explanation:** The file generated by IPA exceeds encoding limits.

**User response:** Relink with a reduced partition size or without IPA.

# CCN2110 "&1" IPA Link control statement has no specifications.

**Explanation:** An IPA Link control statement object record without any specifications was encountered during processing. The record is ignored. Processing continues.

In the message text:

&1 is either INCLUDE, LIBRARY, AUTOCALL, IMPORT or ENTRY.

**User response:** If the IPA Link control statement is required, provide appropriate INCLUDE, LIBRARY, or AUTOCALL, IMPORT or ENTRY specifications and repeat the step. If the record is not required, the warning message can be removed by deleting the invalid record.

#### CCN2111 Invalid syntax specified on "&1" IPA Link control statement.

**Explanation:** An IPA Link control statement object record with invalid syntax was encountered during processing. The record is processed up to the syntax error and the remainder of the record is ignored. Processing continues. If unmatched quotes were encountered, the IPA LINK control statement type will be listed as "UNKNOWN".

In the message text:

&1 is either INCLUDE, LIBRARY, AUTOCALL, IMPORT, ENTRY, or UNKNOWN.

**User response:** If the IPA Link control statement is required, correct the syntax errors and repeat the step. If the record is not required, the warning message can be removed by deleting the invalid record.

#### **CCN2112** Continuation record missing for "&1" IPA Link control statement.

**Explanation:** An IPA Link control statement object record of type &1 was encountered with the continuation column set, but there was no subsequent record or the subsequent record was not a valid continuation record. The record is ignored and processing continues.

In the message text:

&1 is the IPA Link control statement type.

**User response:** Add the appropriate continuation record, or set continuation column 72 to blank if no continuation record is required.

#### Continuation records not allowed for CCN2113 "&1" IPA Link control statement. This statement was ignored.

**Explanation:** An IPA Link control statement of type &1 had a nonblank character in column 72. Information for a statement of this type must be specified in one record, so continuation of this record is not valid. The statement is ignored and IPA Link step processing continues.

In the message text:

&1 is the IPA Link control statement type.

User response: Correct the record if necessary, set continuation column 72 to blank, and repeat the step.

#### CCN2114 More than one "&1" IPA Link control statement found.

**Explanation:** More than one IPA Link control statement object record of type &1 was encountered during the processing of &2.

In the message text:

&1 is the IPA Link control statement type.

**User response:** No recovery is necessary unless the incorrect IPA Link control statement is selected by IPA Link error recovery, or incorrect processing was performed. In this case, remove the offending record and repeat the step.

#### CCN2115 "&1" IPA Link control statement is ignored.

**Explanation:** An IPA Link control statement of type &1 was found to be invalid. The record is ignored and processing continues.

In the message text:

&1 is the control statement type.

**User response:** Correct the record if necessary, set continuation column 72 to blank, and repeat the step.

#### CCN2116 An error occurred processing the "&1" IPA Link control statement.

**Explanation:** An error was encountered during processing of the IPA Link control statement. The record is ignored and processing continues.

In the message text:

&1 is either INCLUDE, LIBRARY, AUTOCALL, IMPORT or ENTRY.

**User response:** Ensure that the files referenced by this IPA Link control statement object record are available and in the correct format. If the problem persists, call your Service Representative.

#### CCN2117 "&1" IPA Link control statement specification not supported.

**Explanation:** An IPA Link control statement with a specification syntax that is unsupported by IPA Link was encountered during processing. The record is processed up to this specification, and the remainder of the record is ignored. Processing continues.

In the message text:

&1 is either INCLUDE, LIBRARY, AUTOCALL, IMPORT or ENTRY.

User response: Alter the specification to a format supported by IPA Link, or remove the specification. If the record is not required, the warning message can be removed by deleting the invalid record.

#### CCN2118 A 32-bit file is being linked in 64-bit mode, or vice versa.

**Explanation:** A 32-bit file is being linked in 64-bit mode (or vice versa).

**User response:** Change link options or compile file in different mode.

#### CCN2119 Noobject files used in non-IPA link step.

Explanation: One or more files generated with "NOOBJECT" were being linked directly by the linker.

User response: Recompile and link with "OBJECT" or recompile the file containing the entry point with IPA.

#### CCN2120 IPA Link control statement has invalid

Explanation: An IPA Link control statement object record (related to DLL resolution) with invalid syntax was encountered during processing.

User response: Prelink the DLL and generate a valid definition side-deck file.

### CCN2121 IPA Link control statement not properly continued:

**Explanation:** An IPA Link control statement object record (related to DLL resolution) with the continuation column set was encountered, but there was no subsequent record or the subsequent record was not a valid continuation record. The record is ignored and processing continues.

**User response:** Prelink the DLL and generate a valid definition side-deck file.

## CCN2122 Module name "&1" chosen for generated "IMPORT" IPA Link control statements.

**Explanation:** The default name TEMPNAME was assigned to the module in the DLL definition side-deck file.

In the message text:

&1 is a module name.

**User response:** Provide a "NAME" IPA Link control statement.

#### CCN2125

File "&1" uses a sequential format. The member name "&2" can not be specified on the "&3" IPA Link control statement.

**Explanation:** An IPA Link control statement specification is syntactically correct, but is incorrect for the sequential file which has been allocated. This specification is ignored, and processing continues.

In the message text:

&1 is a file name. &2 is a member name. &3 is INCLUDE.

**User response:** Ensure the file allocation specification is correct. Correct the file allocation or IPA Link control statement as necessary and repeat the step.

#### **CCN2126**

File "&1" uses a partitioned format. A member name must be specified on the "&2" IPA Link control statement.

**Explanation:** An IPA Link control statement specification is syntactically correct, but is incorrect for the partitioned file which has been allocated. This specification is ignored, and processing continues.

In the message text:

&1 is a file name. &2 is INCLUDE.

**User response:** Ensure the file allocation specification is correct. Correct the file allocation or IPA Link control statement as necessary and repeat the step.

#### CCN2127

File "&1" uses a sequential format. A partitioned file or UNIX System Services archive is required for a "&2" IPA Link control statement.

**Explanation:** An IPA Link control statement specification is syntactically correct, but the corresponding file uses a sequential format. This specification is ignored, and processing continues.

In the message text:

&1 is a file name. &2 is LIBRARY.

**User response:** Ensure the file allocation specification is correct. Correct the file allocation as necessary and repeat the step.

#### **CCN2128**

File "&1" uses a sequential format. A partitioned file or UNIX System Services archive is required for Autocall processing.

**Explanation:** The specified file is allocated to a sequential file, and is unavailable for autocall processing.

In the message text:

&1 is a file name.

**User response:** Ensure the file allocation specification is correct. Correct the file allocation as necessary and repeat the step.

#### CCN2130

A "RENAME" IPA Link control statement can not be used for short name "&1".

**Explanation:** A "RENAME" IPA Link control statement object record that attempted to rename a short name &1 to another name was encountered. "RENAME" statements are only valid for long names for which there are no corresponding short names. The "RENAME" statement is ignored and processing continues.

In the message text:

&1 is a short name.

**User response:** The warning message can be removed by deleting the invalid "RENAME" statement.

#### CCN2131

Multiple "RENAME" IPA Link control statements are found for "&1". The first valid one is used.

**Explanation:** More than one "RENAME" IPA Link control statement object record was encountered for name &1. The first "RENAME" statement with a valid output name is chosen. The "RENAME" statement is ignored and processing continues.

In the message text:

#### CCN2132 • CCN2142

&1 is a name.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object File Map" section of the listing to determine which output name was chosen. If it was not the intended name, remove the duplicate "RENAME" statements and repeat the step.

## CCN2132 May not "RENAME" long name "&1" to another long name "&2".

**Explanation:** A "RENAME" IPA Link control statement object record that attempted to rename a long name &1 to another long name &2 was encountered. The "RENAME" statement is ignored and processing continues.

In the message text:

&1 and &2 are both long names.

User response: Specify the IPA(LINK,MAP) option during processing. Examine the "Object File Map" section of the listing to determine which output name was chosen. If it was not the intended name, replace the invalid "RENAME" statement with a valid output name and repeat the step. The warning message can be removed by deleting the invalid RENAME statement.

### CCN2133 May not "RENAME" defined long name "&1" to defined name "&2".

**Explanation:** A "RENAME" IPA Link control statement object record that attempted to rename a defined long name &1 to another defined name &2 was encountered. The "RENAME" statement is ignored and processing continues.

In the message text:

&1 is a long name. &2 is a defined name.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object File Map" section of the listing to determine which output name was chosen. If it was not the intended name, replace the invalid "RENAME" statement with a valid output name and repeat the step. The warning message can be removed by deleting the invalid RENAME statement.

# CCN2134 "RENAME" of "&1" to "&2" is ignored since "&2" is the target of another "RENAME".

**Explanation:** Multiple "RENAME" IPA Link control statement object records that attempted to rename two different names to the same name &2 were encountered. The "RENAME" statement is ignored and processing continues.

In the message text:

&1 is a long name. &2 is a defined name.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object File Map" section of the listing to determine which name was renamed to &2. If it was not the intended name, change the name and repeat the step. The warning message can be removed by deleting the extra "RENAME" statements.

# CCN2140 "&1" is mapped to "&2" by the IPA(UPCASE) option. "&3" is an alternative matching definition name.

**Explanation:** "&1" is an external symbol reference that maps to multiple definitions due to the IPA(UPCASE) option. Definition "&2" was selected. "&3" is another definition which matches this name, but was not used.

In the message text:

&1, &2 and &3 are names.

**User response:** If both names (&1 and &2) correspond to the same object the warning can be ignored. If the names do not correspond to the same object or if the warning is to be removed, do one of the following:

- Change one of the names in the source routine.
- Use #pragma map in the source routine for one of the names.

#### CCN2141 "&1" is mapped to "&2".

**Explanation:** External name "&1" has been replaced by "&2". IPA Link processing required a name that was limited to 8 characters.

In the message text:

&1 and &2 are names.

**User response:** No user response is required. If you require a specific external name for "&1", use #pragma map in the program source. Any additional names that were mapped to "&1" (and hence "&2") because of IPA(UPCASE) will require equivalent #pragma map statements.

# CCN2142 Unable to map "&1" and "&2" to a common name during IPA(UPCASE) processing.

**Explanation:** Due to references by non-IPA objects, a common external name can not be determined during IPA(UPCASE) processing. This will occur if both "&1" and "&2" are referenced by non-IPA objects, or if either is referenced by non-IPA objects and the common name is longer than 8 characters.

In the message text:

&1 and &2 are names.

**User response:** Modify the program source so that the external names are consistent, and 8 characters or less in length.

# CCN2143 Unable to map "&1" to "&2" within same Compilation Unit during IPA(UPCASE) processing.

**Explanation:** "&1" is an external symbol that maps to the symbol "&2" within the same Compilation Unit due to the IPA(UPCASE) option. Mapping of symbols in this manner is not supported.

In the message text:

&1 and &2 are names.

**User response:** Modify the program source so that the external names are consistent. If IPA(UPCASE) resolution is desired, split the program source so that each symbol is defined in a different Compilation Unit.

#### CCN2150 Invalid C370LIB-directory encountered.

**Explanation:** The specified library file contains an invalid or damaged C370LIB-directory.

**User response:** Use the C370LIB DIR command to recreate the C370LIB-directory, and repeat the step.

# CCN2151 Library does not contain a C370LIB-directory.

**Explanation:** The specified library file does not contain a C370LIB-directory required to perform the command.

**User response:** The library was not created with the C370LIB command. Use the C370LIB DIR command to create the C370LIB-directory, and repeat the step.

#### CCN2152 Member "&1" not found in library.

**Explanation:** The specified member &1 was not found in the library. Processing continues.

In the message text:

&1 is a library member name.

**User response:** Use the C370LIB MAP command to display the names of library members.

#### CCN2153 Unable to access library file.

**Explanation:** An error was encountered during processing of the specified "LIBRARY" IPA Link control statement. The record is ignored and processing continues.

**User response:** Ensure that the files referenced by this IPA Link control statement object record are available and in the correct format. If the problem persists, call your Service Representative.

### CCN2155 &1 sequential files in library "&2" allocation were ignored.

**Explanation:** When the list of files allocated to the specified DD was extracted, both sequential and partitioned format files were found. The sequential files were ignored.

In the message text:

&1 is the number of sequential files. &2 is a library DD name.

**User response:** Correct the library allocation to eliminate the sequential files.

# CCN2160 Invalid symbol table encountered in archive library.

**Explanation:** The specified archive library file contains invalid information in its symbol table. Processing continues.

**User response:** Rebuild the archive library.

## CCN2161 Archive library does not contain a symbol table.

**Explanation:** The symbol table for the specified archive library file could not be found.

**User response:** Rebuild the archive library.

### CCN2170 Unresolved "IMPORT" references are detected.

**Explanation:** Unresolved objects were encountered at IPA Link processing termination. Other user objects are required.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question. To correct unresolved references to user objects, include the user objects during IPA Link processing.

### CCN2171 Unresolved "IMPORT" references are detected:

**Explanation:** The listed unresolved objects were encountered at IPA Link processing termination. Other user objects are required.

User response: Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question. To correct unresolved references to user objects, include the user objects during IPA Link processing.

# CCN2172 Unresolved references could not be imported.

**Explanation:** The same symbol was referenced in both DLL and non-DLL code. The DLL reference could have been satisfied by an "IMPORT" IPA Link control statement which was processed, but the non-DLL reference could not.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the symbols in question. You must either supply a definition for the referenced symbol, or use the DLL compiler option to recompile the code containing the non-DLL reference so that it becomes a DLL reference.

# CCN2173 Unresolved references could not be imported:

**Explanation:** The listed symbols were referenced in both DLL and non-DLL code. The DLL reference could have been satisfied by an "IMPORT" IPA Link control statement which was processed, but the non-DLL reference could not.

**User response:** You must either supply a definition for the referenced symbol, or use the DLL compiler option to recompile the code containing the non-DLL reference so that it becomes a DLL reference.

### CCN2174 Duplicate "IMPORT" definitions are detected.

**Explanation:** A name referenced in DLL code was not defined within the application, but more than one "IMPORT" IPA Link control statement was detected with that symbol name. The first one encountered was used

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question, and define these objects once.

# CCN2175 Duplicate "IMPORT" definitions are detected:

**Explanation:** The listed objects were defined multiple times

**User response:** Define these objects once.

#### CCN2177 "ENTRY" symbol "&1" not found.

**Explanation:** An "ENTRY" IPA Link control statement object record that attempted to specify a program entry point was encountered, but no symbol by this name is present in the application program.

In the message text:

&1 is a symbol name.

**User response:** If the IPA Link control statement is required, provide an object file which defines the symbol, and repeat the step. If the record is not required, the error message can be removed by deleting the invalid record.

#### CCN2178 "ENTRY" symbol "&1" not valid.

**Explanation:** An "ENTRY" IPA Link control statement object record that attempted to specify a program entry point was encountered, but the specified symbol is a reference, or aggregate member.

In the message text:

&1 is a symbol name.

**User response:** If the IPA Link control statement is required, provide an object file which defines a valid symbol, and repeat the step. If the record is not required, the error message can be removed by deleting the invalid record.

## CCN2180 Load Module information has invalid "&1" record.

**Explanation:** A damaged or incompatible Load Module library member was encountered during IPA Link processing.

In the message text:

&1 is an Load Module record type.

**User response:** Recompile the source file and try IPA Link processing again. If the problem persists, call your Service Representative.

# CCN2181 An error was encountered during Load Module information processing.

**Explanation:** A damaged or incompatible Load Module library member was encountered during IPA Link processing.

In the message text:

&1 is an Load Module record type.

**User response:** Recompile the source file and try IPA Link processing again. If the problem persists, call your Service Representative.

### CCN2182 Load Module information has incorrect format.

**Explanation:** A Load Module library member with an incorrect format was encountered during IPA Link processing.

**User response:** Recompile the source file and try IPA Link processing again. If the problem persists, call your Service Representative.

# CCN2183 Program Object file format is not supported by IPA Link step processing.

**Explanation:** During the link portion of IPA Link step processing, an attempt was made to extract object information from a Program Object file. IPA Link step processing supports object information in the form of object modules, and Load Module library members. Program Object files which are generated by the Program Management Binder are not supported.

**User response:** Repackage the Program Object as either an object module or a Load Module library member, and try IPA Link processing again.

# CCN2184 IPA Object file "&1" has been compiled with an incompatible version of IPA.

**Explanation:** The IPA Object format in "&1" is incompatible with the current compiler.

**User response:** Recompile the file with the current compiler.

## CCN2185 The correct decryption key for object file "&1" was not specified.

**Explanation:** The file "&1" was encrypted with different key than the one(s) specified.

**User response:** Include the correct key or link without IPA.

## CCN2187 "&1" option is incompatible with an IPA object file compiled with "&2" option.

**Explanation:** An option used to compile the IPA object file is incompatible with an option used at IPA link.

**User response:** Recompile the IPA object file with a compatible option, or specify a compatible option at IPA link.

## CCN2200 Unresolved references to writable static objects are detected.

**Explanation:** Undefined writable static objects were encountered at IPA Link step processing termination. Other user objects are required.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question, and include these objects during IPA Link processing.

# CCN2201 Undefined writable static objects are detected:

**Explanation:** The listed writable static objects were undefined at IPA Link processing termination.

**User response:** Include these objects during IPA Link processing.

# CCN2202 Unresolved references to writable static objects are detected:

**Explanation:** Undefined writable static objects or unresolved objects referring to writable static objects were encountered at IPA Link processing termination. Other user objects are required.

**User response:** Include these objects during IPA Link processing.

### CCN2203 Unresolved references to objects are detected.

**Explanation:** Unresolved objects were encountered at IPA Link processing termination. Other user objects are required.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question. To correct unresolved references to user objects, include the required objects during IPA Link processing.

### CCN2204 Unresolved references to objects are detected:

**Explanation:** The listed unresolved objects were encountered at IPA Link processing termination. Other user objects are required.

**User response:** To correct the unresolved references, include the required objects during IPA Link step processing.

#### CCN2205 Unresolved reference to symbol "&1".

**Explanation:** The listed unresolved objects were encountered at IPA Link processing termination. Other user objects are required.

In the message text:

**User response:** To correct the unresolved references, include the required objects during IPA Link step processing.

#### CCN2206 Unresolved reference to symbol "&1".

**Explanation:** The listed unresolved objects were encountered at IPA Link processing termination. Other user objects are required.

In the message text:

**User response:** To correct the unresolved references, include the required objects during IPA Link step processing.

### CCN2210 Duplicate writable static objects are detected.

**Explanation:** Writable static objects were defined multiple times.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question, and define the required objects once.

### CCN2211 Duplicate writable static objects are detected:

**Explanation:** The listed writable static objects were defined multiple times.

**User response:** Define these objects once.

#### CCN2212 Duplicate objects are detected.

**Explanation:** Objects were defined multiple times.

**User response:** Specify the IPA(LINK,MAP) option during processing. Examine the "Object Resolution Warnings" section of the listing to find the objects in question, and define these objects once.

#### CCN2213 Duplicate objects are detected:

**Explanation:** The listed objects were defined multiple

times.

**User response:** Define the objects once.

# CCN2220 Duplicate writable static object "&1" is detected with different sizes. The largest

size is used.

**Explanation:** The listed writable static object was defined multiple times with different sizes. The larger of the different sizes was used. Incorrect execution could occur unless the object is defined consistently.

In the message text:

&1 is a writable static object name.

**User response:** Define the objects consistently.

# CCN2221 Duplicate object "&1" is detected with different sizes. The largest size is used.

**Explanation:** The listed object was defined multiple times with different sizes. The larger of the different sizes is used. Incorrect execution could occur unless the object is defined consistently.

In the message text:

&1 is an object name.

**User response:** Define these objects consistently.

#### CCN2229 No exported symbols found.

**Explanation:** After the IPA object files were linked, an unsuccessful attempt was made to locate at least one exported symbols.

**User response:** Specify at least one exported symbol contained in the IPA object files.

#### CCN2230 Program entry point not found.

**Explanation:** After the IPA object files were linked, an unsuccessful attempt was made to identify the program entry point (normally the "main" function).

**User response:** Provide the IPA object file containing the program entry point.

#### CCN2231 More than one entry point was found.

**Explanation:** After the IPA object files were linked, multiple possible program entry points were found.

**User response:** Eliminate the IPA object files containing the extra program entry points.

# CCN2232 Duplicate definition of symbol "&1" ignored.

**Explanation:** A duplicate definition of the specified symbol has been encountered in the specified file. It is ignored.

In the message text:

&1 is the symbol name.

**User response:** If possible, eliminate the duplicate symbol definition from the set of input files provided to the IPA Link step.

# CCN2233 Duplicate definition of symbol "&1" in import list is ignored.

**Explanation:** A duplicate definition of the specified symbol has been encountered in an import list in the specified file. It is ignored.

In the message text:

&1 is the symbol name.

**User response:** Eliminate the duplicate import definition for the specified symbol.

# CCN2240 IPA object files "&1" and "&2" have been compiled with differing settings for the "&3" option.

**Explanation:** The IPA object files were compiled using conflicting settings for the specified option. A final common option setting will be selected. Alternatively, a common override can be specified during IPA Link invocation.

In the message text:

&1 and &2 are object file names, and &3 is an option name.

**User response:** Ensure that the final option setting is appropriate. The warning message can be removed by recompiling one or both source files with the same option setting.

#### CCN2241 The "&1" option will be used.

**Explanation:** This is the final common option setting selected after IPA object files were found to be in conflict.

In the message text:

&1 is an option name.

**User response:** Ensure that the final option setting is appropriate. The warning message can be removed by recompiling one or both source files with the same option setting.

#### CCN2242

IPA object files "&1" and "&2" contain code targeted for different machine architectures.

**Explanation:** The IPA object files were compiled with conflicting machine architectures. A final common machine architecture will be selected.

In the message text:

&1 and &2 are object file names.

**User response:** Ensure that the final machine architecture is appropriate. The warning message can be removed by recompiling one or both source files so that consistent ARCH options that specify the same machine architecture are used.

### CCN2243 The "&1" machine architecture will be used.

**Explanation:** This is the final machine architecture selected after IPA object files were found to be in conflict.

In the message text:

&1 is a machine architecture id.

**User response:** Ensure that the final machine architecture is appropriate. The warning message can be removed by recompiling one or both source files so that consistent ARCH options that specify the same machine architecture are used.

#### **CCN2244**

IPA object files "&1" and "&2" contain code targeted for different operating environments.

**Explanation:** The IPA object files were compiled using conflicting operating environments. A final common

operating environment will be selected.

In the message text:

&1 and &2 are object file names.

**User response:** Ensure that the final target operating environment is appropriate. The warning message can be removed by recompiling one or both source files for the same operating environment.

### CCN2245 The "&1" operating environment will be used.

**Explanation:** This is the final operating environment selected after IPA object files were found to be in conflict.

In the message text:

&1 is an operating environment id.

**User response:** Ensure that the final target operating environment is appropriate. The warning message can be removed by recompiling one or both source files for the same operating environment.

# CCN2246 IPA object files "&1" and "&2" were generated from different source languages.

**Explanation:** The IPA object files were produced by compilers for different languages. The IPA object has been transformed as required to handle this situation.

In the message text:

&1 and &2 are object file names.

**User response:** No user response is required.

# CCN2247 IPA object files "%1" and "%2" were generated by different compiler versions.

**Explanation:** The IPA object files were produced by different versions of the compiler. The older IPA object has been transformed to the later version.

In the message text:

&1 and &2 are object file names.

**User response:** No user response is required.

# CCN2248 The code page for one or more IPA object files differs from the code page "&1", used during IPA Link processing.

**Explanation:** IPA object files contain code page identification if the LOCALE option is active when they are originally compiled. During IPA Link processing with the LOCALE option active, one or more IPA object files were encountered that had a code page (specified via the LOCALE option) which differs from that used during IPA Link processing. Character data will remain

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in the code page in which it was originally compiled.

In the message text:

&1 is a code page name.

**User response:** No user response is required.

#### CCN2250

Option "&1" not available because one or more IPA object files were compiled with option "&2".

**Explanation:** The specified option is not available during code generation for the current partition, because one or more IPA object files contain insufficient information to support it. A final common option will be selected.

In the message text:

&1 and &2 are option names.

**User response:** No recovery is required. However, greater optimization potential may occur if one or both of the module objects were recompiled to eliminate the option setting conflict.

### CCN2260 Subprogram specified exceeds size limit: &1

**Explanation:** The ACU for the subprogram exceeds the LIMIT specified in the INLINE suboption.

In the message text:

&1 is the Subprogram name.

**User response:** Increase LIMIT if it is feasible to do so.

# CCN2261 Subprogram specified is (or grows) too large to be inlined: &1

**Explanation:** This occurs when a subprogram is too large to be inlined into another subprogram.

In the message text:

&1 is the subprogram name.

**User response:** Use #pragma inline if it is feasible to do so.

# CCN2262 Some calls to subprogram specified cannot be inlined: &1

**Explanation:** At least one call is either directly recursive, or the wrong number of parameters were specified.

In the message text:

&1 is the subprogram name.

**User response:** Check all calls to the subprogram specified and make sure that the number of parameters match the subprogram definition.

# CCN2263 Automatic storage for subprogram specified increased to over &1 bytes: &2

**Explanation:** The size of automatic storage for subprogram increased by at least 4 KB due to inlining.

In the message text:

&1 is the automatic storage limit. &2 is the subprogram name.

**User response:** If feasible to do so, prevent the inlining of subprograms that have large auto storage.

# CCN2265 Inlining of specified subprogram failed due to the presence of a global label: &1

**Explanation:** At least one call could not be inlined due to the presence of a global label.

In the message text:

&1 is the subprogram name.

**User response:** Minimize the use of global labels in your application. Their presence will inhibit global inlining.

# CCN2266 Inlining of specified subprogram failed due to the presence of a C++ exception handler: &1

**Explanation:** At least one call could not be inlined due to the presence of a C++ exception handler.

In the message text:

&1 is the subprogram name.

**User response:** Minimize the use of C++ exception handlers in your application. Their presence will inhibit global inlining.

# CCN2267 Inlining of specified subprogram failed due to the presence of variable arguments: &1

**Explanation:** At least one call could not be inlined due to the presence of variable arguments.

In the message text:

&1 is the subprogram name.

**User response:** No user response is required.

# CCN2268 Inlining of subprogram "&1" into subprogram "&2" failed due to a conflict in options settings.

**Explanation:** The specified call could not be inlined due to incompatible options settings for the IPA object files that contain the two programs.

In the message text:

&1 and &2 are subprogram names.

**User response:** Use compatible options during the IPA Compile step.

#### **CCN2269**

Inlining of subprogram "&1" into subprogram "&2" failed due to a type mismatch in argument "&3".

**Explanation:** The specified call could not be inlined due to incompatible types for the specified argument number, where "&1" is the first argument.

In the message text:

&1 and &2 are subprogram names. &3 is the parameter index

**User response:** Correct the program to use compatible types for all arguments.

#### CCN2270

Subprogram "&1" has been inlined into subprogram "&2". One or more unexpected extra parameters were ignored.

**Explanation:** The specified call was inlined, but one or more parameters on the call were not required and were ignored.

In the message text:

&1 and &2 are subprogram names.

**User response:** Eliminate the extra parameters.

#### CCN2271

Subprogram "&1" has been inlined into subprogram "&2". One or more arguments were not supplied, so the values are undefined.

**Explanation:** The specified call was inlined, but one or more parameters were omitted on the call. Values for these arguments are indeterminate, so the operation of the subprogram is undefined.

In the message text:

&1 and &2 are subprogram names.

**User response:** Specify all parameters actually required by the called subprogram.

#### CCN2280

A type mismatch was detected for symbol "&1".

**Explanation:** An instance of the specified subprogram was found where one or more parameters were of an unexpected type.

In the message text:

&1 is a subprogram name.

**User response:** Correct the program to use parameter types compatible with the function definition. .

#### CCN2281

Function return types "&1" and "&2" for subprogram "&3" do not match.

**Explanation:** An instance of the specified subprogram was found with an unexpected type for the function return value.

In the message text:

&1 and &2 are return type names. &3 is a subprogram name.

**User response:** Correct the program to use a return type compatible with the function definition.

#### CCN2282

# Subprogram "&1" has the wrong number of formal parameters.

**Explanation:** The number of formal parameters for the definition of the given subprogram does not match the number of formal parameters for the declaration of the subprogram.

In the message text:

&1 is a subprogram name.

**User response:** Correct the program to use a consistent number of formal parameters for the subprogram.

#### CCN2283

### A linkage mismatch was detected for symbol "&1".

**Explanation:** An instance of the specified subprogram was found which uses a linkage incompatible with the calling function.

In the message text:

&1 is a symbol name.

**User response:** Correct the program to ensure consistent linkage across all objects.

#### CCN2299

#### Some optimizations may be inhibited.

**Explanation:** During optimization of the IPA object, a problem was encountered that prevent the use of all available optimization techniques. These specific problems are identified in separate messages.

**User response:** Correct the problem which inhibits optimization.

#### CCN2300 Export symbol "&1" not found.

**Explanation:** An "export" directive entry for the specified symbol was present in the IPA Link control file, but no symbol by this name is present in the application program.

In the message text:

&1 is a symbol name.

#### CCN2301 • CCN2310

**User response:** Correct the IPA Link control file directive.

# CCN2301 External subprogram "&1" not found. Could not mark as "pure".

**Explanation:** A "pure" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

### CCN2302 External subprogram "&1" not found. Could not mark as "isolated".

**Explanation:** A "isolated" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

### CCN2303 External subprogram "&1" not found. Could not mark as "safe".

**Explanation:** A "safe" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

### CCN2304 External subprogram "&1" not found. Could not mark as "unknown".

**Explanation:** An "unknown" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

# CCN2305 External subprogram "&1" not found. Could not mark as "low frequency".

**Explanation:** A "lowfreq" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

### CCN2306 External subprogram "&1" not found. Could not mark as "an exit".

**Explanation:** A "exits" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

# CCN2307 External symbol "&1" not found. Could not mark as "retain".

**Explanation:** A "retain" directive entry for the specified symbol was present in the IPA Link control file, but no symbol by this name is present in the application program.

In the message text:

&1 is a symbol name.

**User response:** Correct the IPA Link control file directive.

#### CCN2308 Regular expression "&1" error: &2.

**Explanation:** The regular expression is incorrectly specified.

In the message text:

&1 is a regular expression.

**User response:** Correct the regular expression "&1".

## CCN2310 External subprogram "&1" not found. Could not mark as "inline".

**Explanation:** An "inline" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

### CCN2311 EXternal subprogram "&1" not found. Could not mark as "do not inline".

**Explanation:** A "noinline" directive entry for the specified subprogram was present in the IPA Link control file, but no subprogram by this name is present in the application program.

In the message text:

&1 is a subprogram name.

**User response:** Correct the IPA Link control file directive.

# CCN2312 Could not inline calls from "&1" to "&2" as neither external subprogram was found.

**Explanation:** An "inline" directive entry for calls between the specified subprograms was present in the IPA Link control file, but no subprograms by these names are present in the application program.

In the message text:

&1 and &2 are subprogram names.

**User response:** Correct the IPA Link control file directive.

# CCN2313 Could not inhibit inlining calls from "&1" to "&2" as neither external subprogram was found.

**Explanation:** A "noinline" directive entry for calls between the specified subprograms was present in the IPA Link control file, but no subprograms by these names are present in the application program.

In the message text:

&1 and &2 are subprogram names.

**User response:** Correct the IPA Link control file directive.

# CCN2314 Could not inline calls from "&1" to "&2" as external subprogram "&3" was not found.

**Explanation:** An "inline" directive entry for calls between the specified subprograms was present in the IPA Link control file, but no subprogram with the specified name is present in the application program.

In the message text:

&1, &2 and &3 are subprogram names.

**User response:** Correct the IPA Link control file directive.

# CCN2315 Could not inhibit inlining calls from "&1" to "&2" as external subprogram "&3" was not found.

**Explanation:** A "noinline" directive entry for calls between the specified subprograms was present in the IPA Link control file, but no subprogram with the specified name is present in the application program.

In the message text:

&1, &2 and &3 are subprogram names.

**User response:** Correct the IPA Link control file directive.

# CCN2316 Could not find any calls from "&1" to "&2" to inline.

**Explanation:** An "inline" directive entry for calls between the specified subprograms was present in the IPA Link control file, but no such calls are present in the application program.

In the message text:

&1 and &2 are subprogram names.

**User response:** Delete the IPA Link control file directive.

## CCN2317 Could not find any calls from "&1" to "&2" to inhibit from inlining.

**Explanation:** A "noinline" directive entry for calls between the specified subprograms was present in the IPA Link control file, but no such calls are present in the application program.

In the message text:

&1 and &2 are subprogram names.

**User response:** Delete the IPA Link control file directive.

## CCN2320 The minimum size of partition &1 exceeds the partition size limit.

**Explanation:** The program information which must be contained within the current partition is larger than the current partition size limit. This may be because the partition contains a single large subprogram.

In the message text:

&1 is the number of the current partition.

**User response:** Use the IPA Link "partition" directive to specify a larger partition size limit.

#### CCN2340

Code generation was not performed due to previously detected errors. Object file not created.

**Explanation:** The completion of the IPA Link step is not possible due to errors that were previously detected. The generation of code and data from the IPA object information will not be performed, and no object file will be generated.

**User response:** Eliminate the cause of the error conditions.

#### CCN2341

Code generation for partition &1 terminated due to previous errors.

**Explanation:** The generation of object code and data for the current partition has been terminated due to error conditions detected during processing. Processing continues to allow further errors to be detected, but an incomplete object file will be generated.

In the message text:

&1 is the number of the current partition.

**User response:** Eliminate the cause of the error conditions.

#### CCN2342

Code generation for partition &1 bypassed due to previous errors.

**Explanation:** The generation of object code and data for the current partition has been bypassed due to error conditions detected when processing a previous partition. Processing continues to allow further errors to be detected, but an incomplete object file will be generated.

In the message text:

&1 is the number of the current partition.

**User response:** Eliminate the cause of the error conditions.

#### CCN2345

An error occurred during code generation. The code generation return code was &1.

**Explanation:** During the generation of code for the current partition, an error was detected. One or more messages may be issued when this occurs.

In the message text:

&1 is the code generation return code.

**User response:** Refer to the responses for these messages, and perform the suggested error recovery actions.

#### CCN2400 File "&1" not found.

**Explanation:** The compiler could not locate the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2401 Object file "&1" not found.

**Explanation:** The compiler could not locate the specified object file.

In the message text:

&1 is an object file name.

**User response:** Ensure the file name is correct. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2404 IPA Link control file "&1" not found.

**Explanation:** The compiler could not locate the specified IPA Link control file.

In the message text:

&1 is an IPA Link control file name.

**User response:** Ensure the file name is correct. Also, the file may be locked by another process or access may be denied because of insufficient permission.

### CCN2406 Load Module library member "&1" not found.

**Explanation:** The compiler could not locate the specified member of the Load Module library.

In the message text:

&1 is a Load Module library member name.

**User response:** Ensure the member name and Load Module library names are correct. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2407 File "&1" not found.

**Explanation:** The compiler could not locate the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2420 File "&1" has invalid format.

**Explanation:** The specified file was located, but did not have the correct format.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Correct the file as necessary and repeat the step.

#### CCN2425 File "&1" has invalid attributes.

**Explanation:** The specified file was located, but did not have the correct attributes.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Correct the file as necessary and repeat the step.

#### CCN2430 File "&1" is not allocated.

**Explanation:** The specified file is not allocated, and is unavailable for processing.

In the message text:

&1 is a file name.

**User response:** Ensure the file allocation specification is correct. Correct the file allocation as necessary and repeat the step.

### CCN2431 File "&1" is not allocated. Autocall will not be performed.

**Explanation:** The specified file is not allocated, and is unavailable for autocall processing.

In the message text:

&1 is a file name.

**User response:** Ensure the file allocation specification is correct. Correct the file allocation as necessary and repeat the step.

#### CCN2440 Unable to open file "&1", for read.

**Explanation:** The compiler could not open the specified file. This file was being opened with the intent of reading the file contents.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Ensure that the correct file is being read and has not been damaged. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2441 Unable to open file "&1", for write.

**Explanation:** The compiler could not open the specified file. This file was being opened with the intent of writing new information.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Ensure that the correct file is specified. Also, the file may be locked by another process or access may be denied because of insufficient permission.

### CCN2442 An error occurred while reading file "&1".

**Explanation:** The compiler detected an error while reading from the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure that the correct file is being read and has not been damaged.

### CCN2443 An error occurred while writing to file "&1".

**Explanation:** The compiler detected an error while writing to the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure that the correct file is specified.

#### CCN2445 Unable to close file "&1", after write.

**Explanation:** The compiler could not close the specified file after writing new information.

In the message text:

&1 is a file name.

**User response:** Ensure that the correct file is specified, and that there is sufficient free space.

#### CCN2446 File "&1" is empty.

**Explanation:** The compiler opened the specified file, but it was empty when an attempt was made to read the file contents.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Ensure that the correct file is being read and has not been damaged.

#### CCN2447 • CCN2466

CCN2447 Premature end occurred while reading file "&1".

**Explanation:** The compiler opened the specified file and began processing the file contents. The end of file was reached before all data was processed. Processing continues with the next file.

In the message text:

&1 is a file name.

**User response:** Ensure that the correct file is being read and has not been damaged.

CCN2448 An error occurred while writing to file "&1", possibly due to lack of space.

**Explanation:** The compiler detected an error while writing to the specified file.

In the message text:

&1 is a file name.

**User response:** Ensure that the correct file is specified, and sufficient storage has been allocated for it.

#### CCN2451 Unable to create temporary file "&1".

**Explanation:** The compiler could not create the specified temporary file.

In the message text:

&1 is a file name.

**User response:** The file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2460 Listing file "&1" is full.

**Explanation:** The compiler detected that there is insufficient free space to continue writing to the listing file. Compilation continues, without further updates to the listing file.

In the message text:

&1 is the listing file name.

**User response:** Ensure that the correct listing file is specified, and that there is sufficient free space.

#### CCN2461 Listing file "&1" closed prematurely.

**Explanation:** The compiler detected an error while writing to the listing file. Compilation continues, without further updates to the listing file.

In the message text:

&1 is the listing file name.

**User response:** Ensure that the correct listing file is specified.

#### CCN2462 Unable to write to temporary file "&1".

**Explanation:** The compiler detected an error while writing to the temporary file.

In the message text:

&1 is the temporary file name.

**User response:** Ensure there is enough disk space.

#### CCN2463 Unable to create a temporary file.

**Explanation:** The compiler could not create a temporary file.

**User response:** Check the system documentation on creating temporary files.

#### CCN2464

Profiling data matching that from the PDF1 phase could not be found for function "&1" in file "&2". Source files and/or compilation options may differ between the PDF1 and PDF2 phases.

**Explanation:** The structure or the control flow of the function has changed from the PDF1 phase to the PDF2 phase.

**User response:** Ensure that the source files and compilation options match between the PDF1 and PDF2 phases.

#### CCN2465

Data for function "&1" does not match the profiling data found in file "&2" from the PDF1 phase. Source files and/or compilation options may differ between the PDF1 and PDF2 phases.

**Explanation:** The function has changed in a minor way from the PDF1 phase to the PDF2 phase.

**User response:** Ensure that the source files and compilation options match between the PDF1 and PDF2 phases.

#### **CCN2466**

Profiling data for function "&1" is not found in file "&2" from the PDF1 phase. Source files may differ between the PDF1 and PDF2 phases, or the function may not be called.

**Explanation:** The compiler cannot find any data for the function in the pdf profile generated by the training run.

**User response:** Ensure that the source files and compilation options match between the PDF1 and PDF2 phases and that the function is called.

#### **CCN2467**

Unable to create pdf file because the specified file name is too long.

**Explanation:** The length for the PDF file name exceeds 256 characters.

**User response:** Ensure PDF file name length is less than 256 characters.

#### CCN2468 Unable to open file "&1", for read.

**Explanation:** The compiler could not open the specified file. This file was being opened with the intent of reading the file contents.

In the message text:

&1 is a file name.

**User response:** Ensure the file name is correct. Ensure that the correct file is being read and has not been damaged. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

# CCN2469 No PDF file(s) found. The compiler will not read in PDF information.

**Explanation:** The compiler could not locate any PDF file(s).

**User response:** Ensure the file name specified in pdfname is correct. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission. If the PDF file(s) are not located in the current directory then environment variable PDFDIR must be set accordingly.

#### CCN2470

Reached the limit of PDF files. Will overwrite existing file "&1".

**Explanation:** The compiler will overwrite an existing PDF file.

In the message text:

&1 is a file name.

**User response:** Ensure that all PDF files in current directory or in PDFDIR are valid.

#### CCN2471 More than one PDF file detected.

**Explanation:** The compiler will read in all PDF files.

**User response:** Ensure that all PDF files in current directory or in PDFDIR are valid. If this is not the desired behaviour, please reduce the number of PDF files present in the directory

#### CCN2472

Cache miss profiling is not supported on this platform.

**Explanation:** The compiler will not profile cache misses as part of PDF.

**User response:** Ensure that the target machine supports cache miss profiling (PMAPI).

#### CCN2474

New definition of function "&1" is inconsistent with profiling data found in file "&2" from the PDF1 phase. Source files and/or compilation options may differ between the PDF1 and PDF2 phases. PDF Information will be ignored for function "&3".

**Explanation:** The function has changed in a minor way from the PDF1 phase to the PDF2 phase.

**User response:** Ensure that the source files and compilation options match between the PDF1 and PDF2 phases.

#### CCN2475

Profiling data found in file "&1" from the PDF1 phase is &2% relevant.

**Explanation:** In the message text:

&1 is the PDF filename. &2 is a percentage ratio of profiling data that can be used in PDF2.

**User response:** No user response is required.

#### CCN2476

An error occurred when writing to PDF or PDF map file "&1".

**Explanation:** The compiler could not write to the specified PDF or PDF map file(s).

**User response:** Ensure the file name and/or path specified in pdfname or PDFDIR is correct. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission.

#### CCN2477

One or more input object files were not compiled with PDF.

**Explanation:** The compiler found object files that were not compiled with IPA(PDF1) or IPA(PDF2) on the IPA Compile step.

**User response:** For additional profiling, ensure that all input object files have been compiled with IPA(PDF1) or IPA(PDF2) on the IPA Compile step.

### CCN2490 COMPILER LIMIT EXCEEDED: Insufficient virtual storage.

**Explanation:** The compiler ran out of memory attempting to compile the file. This sometimes happens with large files or programs with large functions. Note that very large programs limit the amount of optimization that can be done.

**User response:** Redefine your virtual storage to a larger size. If sufficient storage is not available, you can try various approaches, such as shut down any large processes that are running, ensure your swap path is large enough, try recompiling the program with a lower level of optimization or without interprocedural analysis.

## CCN2492 INTERNAL COMPILER ERROR: Error &1 in Procedure &2.

**Explanation:** An internal compiler error occurred during compilation.

**User response:** Contact your Service Representative. For more information visit: http://www.ibm.com/support/docview.wss?uid=swg21110810

#### CCN2493 INTERNAL COMPILER ERROR: &1.

**Explanation:** An internal compiler error occurred during compilation.

**User response:** Contact your Service Representative. For more information visit: http://www.ibm.com/support/docview.wss?uid=swg21110810

# CCN2497 File &1 call failed. System error description: "&2".

**Explanation:** The specified file operation failed. The system error description describes the reason for the failure.

**User response:** Based on the system error description, change the environment in order to facilitate the given file system call. For example, if the process is not authorized to perform the given action, then change the appropriate permissions.

#### CCN2498

The listing destination when SPLITLIST is specified must be either a PDS, PDSE or z/OS UNIX System Services file system directory. Processing is terminated.

**Explanation:** The listing destination is not a PDS, PDSE or z/OS UNIX System Services file system directory.

**User response:** Change the destination to the name of a PDS, PDSE or z/OS UNIX System Services file system directory or remove the SPLITLIST option from

the list of command line options passed to the IPA Link phase.

### CCN2506 "&1", line &2: "&3" is used before it is set.

**Explanation:** An uninitialized variable detected by the compiler.

In the message text:

&1 is the filename. &2 is the line number. &3 is the variable.

**User response:** Correct the error on the program source.

## CCN2507 "&1", line &2: "&3" might be used before it is set.

**Explanation:** A potential uninitialized variable detected by the compiler.

In the message text:

&1 is the filename. &2 is the line number. &3 is the variable.

**User response:** Correct the error on the program source.

#### CCN3001 INTERNAL COMPILER ERROR:

Procedure &1. For more information visit: http://www.ibm.com/support/docview.wss?uid=swg21110810

**Explanation:** An internal compiler error occurred during compilation.

In the message text:

&1 is a procedure name.

User response: Contact your service representative.

### CCN3002 COMPILER ERROR: Feature not implemented: &1.

**Explanation:** An error occurred during compilation.

In the message text:

&1 is a feature name.

**User response:** See the C/C++ Language Reference for a description of supported features.

### CCN3003 Width of a bit field of type "&1" cannot exceed &2.

**Explanation:** The length of the bit field must not exceed the maximum bit size of the bit field's type.

In the message text:

&1 is a type name, &2 is an integer (number of bits).

**User response:** Define the bit field length to be less than or equal to the maximum bit size of the bit field type.

### CCN3004 pragma must appear before use of identifier &1.

**Explanation:** The identifier is modified by the pragma after the pragma is seen.

In the message text:

&1 is an identifier.

**User response:** Move the pragma so that it appears before the identifier is used.

# CCN3005 Error in message set &1, unable to retrieve message &2.

**Explanation:** Message cannot be retrieved from the message catalog.

In the message text:

&1 is a message catalog set, &2 is a message number.

**User response:** Check the installation procedure to see if the message catalog has been properly installed.

#### CCN3006 Label &1 is undefined.

**Explanation:** A label must be visible in the current function scope if it is used in an expression.

In the message text:

&1 is a label.

**User response:** Declare a label with that name in the current function scope.

#### CCN3007 "&1" is undefined.

**Explanation:** A C identifier must be declared before it is used in an expression.

In the message text:

&1 is an identifier.

**User response:** Declare an identifier with that name in the current scope or in a higher scope.

# CCN3008 The argument is not valid for the pragma directive.

**Explanation:** pragma does not recognize the argument.

**User response:** Remove the argument or change its format.

# CCN3009 Bit field &1 must be of type signed int, unsigned int or int.

**Explanation:** The type of the bit field is not a signed int, unsigned int, or an int.

In the message text:

&1 is an identifier.

**User response:** Define the bit field with a type signed int or unsigned int.

# CCN3010 Macro &1 invoked with a null argument for parameter &2.

**Explanation:** No argument was specified for the parameter.

In the message text:

&1 is a macro name, &2 is a parameter number.

**User response:** Specify arguments for all macro parameters.

# CCN3012 Operand of bitwise complement must be an integral type.

**Explanation:** The operand of the bitwise complement operator does not have an integral type. Valid integral types include: signed and unsigned char; signed and unsigned short, long, and int; and enum.

**User response:** Change the type of the operand, or use a different operand.

# CCN3013 Operand of unary + or - operator must be an arithmetic type.

**Explanation:** The operand of the unary + or - operator does not have an arithmetic type. Valid arithmetic types include: signed and unsigned char; signed and unsigned short, long, and int; enum, float, double, and long double.

**User response:** Change the type of the operand, or use a different operand.

# CCN3014 Operand of logical negation must be a scalar type.

**Explanation:** The operand of the logical negation operator (!) does not have a scalar type. Valid scalar types include: signed and unsigned char; signed and unsigned short, long, and int; enum, float, double, long double, and pointers.

**User response:** Change the type of the operand, or use a different operand.

### CCN3017 Operand of address operator must be an lvalue or function designator.

**Explanation:** The operand of the address operator (unary &) is not valid. The operand must be either a function designator or an Ivalue that designates an object that is not a bit field and is not declared with register storage class.

**User response:** Change the operand.

## CCN3018 Operand of indirection operator must be a pointer expression.

**Explanation:** The operand of the indirection operator (unary \*) is not a pointer.

**User response:** Change the operand to a pointer.

## CCN3019 Expecting an array or a pointer to object type.

**Explanation:** Index operator ([]) operates only on arrays or pointer to objects.

User response: Change the operand.

#### CCN3020 Expression must be an integral type.

**Explanation:** The expression does not evaluate to an integral type. Valid integral types include: signed, unsigned and plain char, signed and unsigned short, int, long, and enum.

**User response:** Change the type of the operand.

#### CCN3021 Expecting struct or union.

**Explanation:** The left hand operand of the dot operator (.) must have a struct or union type.

**User response:** Change the operand.

#### CCN3022 "&1" is not a member of "&2".

**Explanation:** The specified member does not belong to the structure or union given. One of the following situations has occurred:

- 1. The right-hand operand of the dot (.) operator is not a member of the structure or union specified on the left-hand side of the operator.
- 2. The right hand operand of the arrow (->) operator is not a member of the structure or union pointed to by the pointer on the left hand side of the operator.

In the message text:

&1 is the name of a member, &2 is a type or type name.

User response: Change the identifier.

### CCN3023 Expecting function or pointer to function.

**Explanation:** The expression is followed by an argument list but does not evaluate to a function designator.

**User response:** Change the expression to be a function or a pointer to a function.

### CCN3024 The operand of the \_\_alignof\_\_ operator is not valid.

**Explanation:** The \_\_alignof\_\_ operator cannot be used with incomplete functions, incomplete types, or arrays of unknown size. The \_\_alignof\_\_ operator cannot be applied to an expression that has a function type or an incomplete type, or to the parenthesized name of such a type.

**User response:** Change the operand.

#### CCN3025 Operand must be a modifiable lvalue.

**Explanation:** A modifiable lvalue is an expression representing an object that can be changed.

**User response:** Change the operand.

# CCN3026 Number of initializers cannot be greater than the number of aggregate members.

**Explanation:** Too many initializers were found in the initializer list for the indicated declaration.

**User response:** Check the number of initializers and change it to correspond to the number of declared members. Make sure the closing brace at the end of the initializer list is positioned correctly.

#### CCN3027 Function &1 cannot be initialized.

**Explanation:** An attempt was made to assign an initial value to a function identifier. You can not assign a value to a function identifier.

In the message text:

&1 is a function name.

**User response:** Remove the assignment operator and the initializer.

### CCN3028 Storage class "&1" cannot be used with external data.

**Explanation:** The storage class is not appropriate for this declaration. Restrictions include: 1) Storage class specifier is not allowed for aggregate members, casts, sizeof or offsetof declarations. 2) Declarations at file scope cannot have a "register" or "auto" storage class.

In the message text:

&1 is a storage class specifier.

**User response:** Remove the storage class specifier.

CCN3029 The pragma is ignored. Identifiers are already disjoint.

**Explanation:** The identifiers that are specified in the pragma are already known to be disjoint so the pragma is ignored.

**User response:** Nothing, or remove the pragma as it is redundant.

CCN3030 Identifier &1 cannot be redeclared.

**Explanation:** The identifier has already been declared.

In the message text:

&1 is an identifier.

**User response:** Remove one of the declarations.

CCN3031 All dimensions except the first must be specified for a multidimensional array.

**Explanation:** Only the first dimension of an initialized array can be unspecified. All the other dimensions must be specified on the declaration.

**User response:** Specify all the other dimensions in the array declaration.

CCN3032 Elements of an array cannot be functions.

**Explanation:** An array must be composed of elements that are an object type. Functions are not object types and thus cannot be elements of an array.

**User response:** Use a pointer to the function, or change the type of the element.

CCN3033 Function &1 is not valid. Function cannot return a function.

**Explanation:** A function cannot have a return type of function.

In the message text:

&1 is a function name.

**User response:** Return a pointer to the function or specify a different return type.

CCN3034 Function &1 is not valid. Function cannot return an array.

**Explanation:** A function cannot return an array and the specified return type of the function is an array.

In the message text:

&1 is a function name.

User response: Return a pointer to the array or

specify a different return type.

CCN3035 Storage class "&1" cannot be used with functions.

**Explanation:** A function can only have a storage class of extern or static.

In the message text:

&1 is a storage class specifier.

**User response:** Remove the storage class specifier for the function identifier, or change it to either extern or static.

CCN3036 Range error.

**Explanation:** The value is outside of the valid range.

**User response:** Change value to be within the required limits.

CCN3037 Member of struct or union cannot be a function.

**Explanation:** Members of structs or unions must have object type. Functions do not have object type and cannot be members of a struct or union.

**User response:** Use a pointer to the function or remove the function from the member list.

CCN3039 Expecting a parameter after # operator.

**Explanation:** The # preprocessor operator can only be applied to a macro parameter.

**User response:** Place a parameter after the # token, or remove the token.

CCN3041 The invocation of macro &1 contains fewer arguments than are required by the macro definition.

**Explanation:** The number of arguments supplied to the macro must match the number of parameters in the macro definition. There are not enough arguments supplied.

In the message text:

&1 is a macro name.

**User response:** Complete the specification of the macro argument list.

CCN3043 The operand of the sizeof operator is not valid.

**Explanation:** Sizeof operator cannot be used with functions, void types, bit fields, incomplete types, or arrays of unknown size. The sizeof operator cannot be applied to an expression that has a function type or an incomplete type, to the parenthesized name of such a

#### CCN3044 • CCN3054

type, or to an Ivalue that designates a bit field object.

**User response:** Change the operand.

CCN3044 Expression must be a non-negative integer constant.

**Explanation:** The supplied expression must evaluate to a non-negative integer constant.

**User response:** Change the constant expression to yield a non-negative value.

#### CCN3045 Undeclared identifier &1.

**Explanation:** You must declare a C identifier before you use it in an expression.

In the message text:

&1 is an identifier.

**User response:** Declare an identifier with that name in the current scope or in a higher scope.

#### CCN3046 Syntax error.

**Explanation:** See the C/C++ Language Reference for a complete description of C syntax rules.

**User response:** Correct the syntax error and compile again.

# CCN3047 Incorrect hexadecimal escape sequence \x. \ ignored.

**Explanation:** \x is used to indicate an hexadecimal escape sequence but the sequence immediately following is not a valid hexadecimal number.

**User response:** Change the sequence to a valid hexadecimal number.

# CCN3048 Unable to initialize source conversion from code page &1 to code page &2.

**Explanation:** An error occurred when attempting to convert source between the specified code pages.

In the message text:

&1 and &2 are code page names.

**User response:** Ensure the code pages are correct and that conversion between these code pages is supported.

# CCN3049 The object &1 has a size &2 which exceeds the compiler limit &3.

**Explanation:** The size of the object is too large for the compiler to represent internally.

In the message text:

&1 is name of the variable, &2 is the storage size of the

variable, &3 is the maximum storage size allowed by the compiler.

**User response:** Reduce the size of the object.

# CCN3050 Return type "&1" in redeclaration is not compatible with the previous return type "&2".

**Explanation:** The second declaration of the function declares a different return type from the first. The declaration must be identical. When you redeclare a function, the return type and parameter types must be the same in both declarations.

In the message text:

&1 and &2 are types.

**User response:** Change the declaration of one or both functions so that their return types are compatible.

### CCN3051 Case expression must be a valid integral constant.

**Explanation:** The expression in the case statement must be a constant integral expression. Valid integral expressions are: char, signed and unsigned int, and enum

**User response:** Change the expression.

### CCN3052 Duplicate case label for value &1. Labels must be unique.

**Explanation:** Two case labels in the same switch statement cannot evaluate to the same integer value.

In the message text:

&1 is a case label value.

**User response:** Change one of the labels.

# CCN3053 Default label cannot be placed outside a switch statement.

**Explanation:** A statement is labeled with default, which can only be used as a statement label within a switch statement.

**User response:** Remove the default case label, or place it inside a switch statement. Check for misplaced braces on a previous switch statement.

# CCN3054 Switch statement cannot contain more than one default label.

**Explanation:** Only one default label is allowed within a switch statement. Nested switch statements may each have one default label. This error may have been caused by a default label that is not properly placed within a nested switch statement.

User response: Remove one of the default labels or

check for misplaced braces on nested switch statements..

### CCN3055 Case label cannot be placed outside a switch statement.

**Explanation:** Case labels are only allowed within a switch statement.

**User response:** Remove the case label, or place it within a switch statement group. Check for misplaced braces on the previous switch statement.

# CCN3056 Break statement cannot be placed outside a while, do, for, or switch statement.

**Explanation:** Break statements are only allowed within a while, do, for, or switch statement.

**User response:** Remove the break statement or place it inside a while, do, for or switch statement. Check for misplaced braces on a previous statement.

# CCN3057 Continue cannot be placed outside a while, do, or for statement.

**Explanation:** Continue is only valid as, or within, a loop body.

**User response:** Remove the continue statement or place it inside a while, do or for loop. Check for misplaced braces on a previous loop.

## CCN3058 Label &1 has already been defined on line &2 of "&3".

**Explanation:** You already used the label to identify a section of code in the file indicated. You cannot redefine a label.

In the message text:

&1 is a label, &2 is a line number, &3 is a file name.

User response: Change the name of one of the labels.

### CCN3059 Comment that started on line &1 must end before the end of file.

**Explanation:** A comment that was not terminated has been detected. The comment started on the line indicated.

In the message text:

&1 is a line number.

**User response:** End the comment before the file ends.

## CCN3062 Escape sequence &1 is out of the range 0-&2. Value is truncated.

**Explanation:** Character constants specified in an escape sequence exceeded the decimal value of 255, or the octal equivalent of 377, or the hexadecimal equivalent of FF.

In the message text:

&1 is an escape sequence, &2 is an integer.

**User response:** Change the escape sequence so that the value does not exceed the maximum value.

# CCN3067 A struct or union can only be assigned to a compatible type.

**Explanation:** The assignment is invalid between the given aggregate types.

**User response:** Change the operands so that they have the same type.

### CCN3068 Operation between types "&1" and "&2" is not allowed.

**Explanation:** The operation specified is not valid between the operands having the given types.

In the message text:

&1 and &2 are both type names.

**User response:** Either change the operator or the operands.

# CCN3070 Register is the only storage class that can be used with parameters.

**Explanation:** Parameters can have either no storage class specifier or the register storage class specifier.

**User response:** Remove the storage class specified in the parameter declaration or use the register storage class.

#### CCN3073 Empty character constant.

**Explanation:** An empty character constant is not valid. There must be at least one character between the single quotation marks.

**User response:** Put at least one character inside the pair of single quotation marks.

# CCN3076 Character constant &1 has more than 4 characters. No more than rightmost 4 characters are used.

**Explanation:** A character constant can only have up to four bytes.

In the message text:

&1 is a character constant.

#### CCN3077 • CCN3115

**User response:** Change the character constant to contain four bytes or less.

#### CCN3077 The wchar\_t value &1 is not valid.

**Explanation:** The value is not a valid wchar\_t value. See the C/C++ Language Reference for information on wide characters.

In the message text:

&1 is a wchar\_t value.

**User response:** Change character to a valid wchar\_t. See the C/C++ Language Reference for information about the wchar\_t type.

#### CCN3078 #&1 directive has no effect.

**Explanation:** A preprocessor directive has been specified that has no effect.

In the message text:

&1 is a preprocessor directive.

**User response:** Remove the preprocessor directive.

### CCN3085 Predefined macro &1 cannot be undefined.

**Explanation:** The macro is predefined. You cannot undefine predefined macros.

In the message text:

&1 is a macro name.

**User response:** Remove the statement that undefines the macro.

#### CCN3095 Unexpected parameter &1.

**Explanation:** A parameter was declared in the parameter declaration list of the K&R function definition. The parameter did not appear in the parameter identifier list. It is also possible that the K&R function definition had more parameters than the function prototype.

In the message text:

&1 is a parameter name.

**User response:** Change the number of parameters.

#### CCN3098 Missing argument(s).

**Explanation:** The function call contains fewer arguments than specified in the parameter list of the function prototype.

**User response:** Make sure the function call has the same number of arguments as the function prototype has parameters.

#### CCN3099 Unexpected argument.

**Explanation:** The function call contains more arguments than specified in the parameter list of the function prototype.

**User response:** Change the number of arguments in the function call or change the function prototype.

### CCN3103 Tag &1 requires a complete definition before it is used.

**Explanation:** Only pointer declarations can include incomplete types. A struct or union tag is undefined if the list describing the name and type of its members has not been specified.

In the message text:

&1 is a struct or union tag.

**User response:** Define the tag before it is used in the declaration of an identifier or complete the declaration.

# CCN3104 The value of an enumeration constant must be an integral constant expression.

**Explanation:** If an enum constant is initialized in the definition of an enum tag, the initial value of the constant must be an integral expression that has a value representable as an int.

**User response:** Remove the initial value, or ensure that the initial value is an integral constant expression with a value representable as an int.

## CCN3108 Bit fields with zero width must be unnamed bit fields.

**Explanation:** A named bit field must have a positive length; a zero length bit field is used for alignment only and must not be named.

**User response:** Redefine the bit field with a length greater than zero or remove the name of the bit field.

#### CCN3112 Duplicate type qualifier "&1" ignored.

**Explanation:** The indicated qualifier appears more than once in the type declaration.

In the message text:

&1 is a type qualifier.

User response: Remove one of the duplicate qualifiers.

#### CCN3115 Duplicate type specifier "&1" ignored.

**Explanation:** A duplicate type specifier appears in the type declaration.

In the message text:

&1 is a type specifier.

**User response:** Remove one of the duplicate type specifiers.

#### CCN3117 Operand must be a scalar type.

**Explanation:** Valid scalar types include: signed and unsigned char; signed and unsigned short, long, and int; enum, float, double, long double, and pointers.

**User response:** Change the type of the operand, or use a different operator.

# CCN3119 Duplicate storage class specifier &1 ignored.

**Explanation:** A duplicate storage class specifier appears in the declaration.

In the message text:

&1 is a storage class specifier.

**User response:** Remove one of the duplicate storage class specifiers.

# CCN3120 Function cannot return a &1 qualified type.

**Explanation:** The const or volatile qualifier cannot be used to qualify a function's return type.

In the message text:

&1 is a storage class specifier.

**User response:** Remove the qualifier or return a pointer to the qualified type.

#### CCN3122 Expecting pointer to struct or union.

**Explanation:** The left hand operand of the arrow operator (->) must have type pointer to structure or pointer to union.

**User response:** Change the operand.

# CCN3127 The second and third operands of the conditional operator must have compatible struct or union types.

**Explanation:** If one operand in the conditional expression has type struct or union, the other operand must also have type struct or union.

**User response:** Make the operands compatible.

# CCN3131 Explicit dimension specification or initializer required for an auto or static array.

**Explanation:** For arrays of automatic or static storage class, all dimensions of the array must be specified in the declaration. If the declaration provides an initialization, the first dimensions may be unspecified

because the initialization will determine the size needed.

**User response:** Specify all of the dimensions in the array declaration.

#### CCN3134 Array bound is too large.

**Explanation:** The size of the array is too large for the compiler to represent internally.

**User response:** Reduce the size of the array.

# CCN3137 Declaration must declare at least one declarator, tag, or the members of an enumeration.

**Explanation:** The declaration specifier was the only component of the declaration. eg. int;

**User response:** Specify at least one declarator, tag, or member of an enumeration.

## CCN3152 A register array may only be used as the operand to sizeof.

**Explanation:** The only operator that can be applied to an array declared with storage class specifier register is sizeof.

**User response:** Remove the operation or remove the register storage class specifier.

#### CCN3155 Option &1 requires suboption(s).

**Explanation:** The option is not completely specified; a suboption is required.

In the message text:

&1 is an option name.

User response: Add a suboption.

## CCN3159 Bit field type specified for &1 is not valid. Type &2 assumed.

**Explanation:** The type of a bit field must be a (possibly qualified) version of int, signed int or unsigned int.

In the message text:

&1 is an identifier, &2 is a type specifier (signed or unsigned).

**User response:** Define the bit field with a type signed int or unsigned int.

### CCN3160 Object &1 cannot be declared as type

**Explanation:** The type void can only be used as the return type or parameter list of a function, or with a pointer. No other object can be of type void.

#### CCN3162 • CCN3174

In the message text:

&1 is an identifier name.

**User response:** Ensure that the declaration uses type void correctly.

# CCN3162 No definition was found for function &1. Storage class changed to extern.

**Explanation:** A static function was declared and referenced in this file. The definition of the function was not found before the end of the file. When a function is declared to be static, the function definition must appear in the same file.

In the message text:

&1 is a function name.

**User response:** Change the storage class to extern or provide a function definition in this file.

#### CCN3164 Expression must be a scalar type.

**Explanation:** Valid scalar types include: signed and unsigned char; signed and unsigned short, long, and int; enum, float, double, long double, and pointers.

**User response:** Change the expression.

# CCN3166 Definition of function &1 requires parentheses.

**Explanation:** The syntax of the declaration is not correct. The compiler assumes it is the declaration of a function in which the parentheses surrounding the parameters are missing.

In the message text:

&1 is a function name.

**User response:** Check the syntax of the declaration. Ensure the object name and type are properly specified. Check for incorrect spelling or missing parentheses.

# CCN3167 String literal is longer than target array. Literal is truncated on the right.

**Explanation:** An attempt was made to initialize an array with a string that is too long. The largest possible prefix of the string has been placed in the array.

**User response:** Increase the size of the array. Make sure you include space for the terminating null character.

#### CCN3168 Initializer must be enclosed in braces.

**Explanation:** The initializer list for a declarator must be enclosed in braces.

User response: Check for misplaced or missing braces.

# CCN3169 Too many suboptions specified for option FLAG. Specify only two suboptions.

**Explanation:** The FLAG option takes two suboptions separated by ':'. The suboptions indicate the level of errors to be reported in the source listing and in stderr.

**User response:** Only specify two suboptions to the FLAG option.

## CCN3170 Parameter &1 has already been defined on line &2 of "&3".

**Explanation:** A parameter can only be defined once but more than one definition for the parameter has been specified. Parameters names must be unique.

In the message text:

&1 is a parameter name, &2 is a line number, &3 is a file name.

**User response:** Remove one of the parameter declarations or change the name of the identifier.

# CCN3172 Parameter type list for function &1 contains parameters without identifiers.

**Explanation:** In a C function definition, all parameters must be named in the parameter list. The only exceptions are parameters of type void.

In the message text:

&1 is a function name.

**User response:** Name the parameter or remove it.

#### CCN3173 Option &1 is not recognized.

Explanation: An invalid option was specified.

In the message text:

&1 is an option name.

**User response:** Correct the spelling of the option.

## CCN3174 Option &1 must be specified on the command line.

**Explanation:** The option can only be specified on the command line and is not valid as part of an options pragma.

In the message text:

&1 is an option name.

**User response:** Specify option on command line.

# CCN3175 Option &1 must be specified on the command line or before the first C

statement in the program.

**Explanation:** The option is specified in a pragma options after the first C token in the compilation unit. It must be specified before the first token.

In the message text:

&1 is an option name.

**User response:** Specify the option on the command line or move the pragma options before the first token.

# CCN3176 Option &1 cannot take more than one suboption.

**Explanation:** More than one suboption was specified for an option that can only accept one suboption.

In the message text:

&1 is an option name.

**User response:** Remove the extra suboptions.

### CCN3178 Unexpected argument for built-in function &1.

**Explanation:** The function call contains more arguments than specified in the parameter list of the built-in function.

In the message text:

&1 is a function name.

**User response:** Change the number of arguments in the function call.

## CCN3180 Redeclaration of built-in function &1 ignored.

**Explanation:** Built-in functions are declared by the compiler and cannot be redeclared.

In the message text:

&1 is a function name.

**User response:** Remove the declaration.

# CCN3181 Definition of built-in function &1 ignored.

**Explanation:** Built-in functions are defined by the compiler and cannot be redefined.

In the message text:

&1 is a function name.

**User response:** Remove the function definition.

### CCN3182 Arguments missing for built-in function &1.

**Explanation:** The function call contains fewer arguments than specified in the parameter list of the built-in function.

In the message text:

&1 is a function name.

**User response:** Change the number of arguments in the function call.

# CCN3183 Built-In function &1 cannot change a read-only string literal.

**Explanation:** Read-only strings cannot be modified.

In the message text:

&1 is a function name.

**User response:** Modify a copy of the string or change the string's read-only status.

# CCN3184 Too few suboptions specified for option FLAG. Specify two suboptions.

**Explanation:** The FLAG option takes two suboptions separated by ':'. The suboptions indicate the level of errors to be reported in the source listing and in stderr.

**User response:** Specify two suboptions to the FLAG option.

### CCN3185 #line number &1 must be greater than zero.

**Explanation:** The #line directive tells the compiler to treat the following source lines as starting from the specified line. This number must be a non-negative offset from the beginning of the file.

In the message text:

&1 is an integer.

**User response:** Change the line number to a non-negative integer.

## CCN3186 String literal must be ended before the end of line.

**Explanation:** String literals must end before the end of the line. To create a string literal longer than one line, use the line continuation sequence (a backslash (\) at the end of the line), or concatenate adjacent string literal.

**User response:** End the string with a quotation mark before the end of the line or use the continuation sequence.

#### CCN3188 • CCN3199

CCN3188 Reserved name &1 cannot be defined as a macro name.

**Explanation:** The name is reserved for the compiler's

In the message text:

&1 is a reserved name.

**User response:** Choose another name.

CCN3189 Floating-point constant &1 is not valid.

**Explanation:** See the C/C++ Language Reference for a description of a floating-point constant.

In the message text:

&1 is the floating-point literal.

**User response:** Ensure that the floating-point constant does not contain any characters that are not valid.

CCN3190 Automatic constant &1 does not have a value. Zero is being assumed.

**Explanation:** Const qualified variable declarations should contain an initializer. Otherwise you cannot assign the variable a value.

In the message text:

&1 is a variable name.

**User response:** Initialize the const variable when you declare it.

CCN3191 The character &1 is not a valid C source character.

**Explanation:** Refer to the C/C++ Language Reference for information on valid characters.

In the message text:

&1 is a character.

**User response:** Change the character.

CCN3192 Cannot take address of built-in function &1.

**Explanation:** You cannot take the address of a built-in function or declare a pointer to a built-in function.

In the message text:

&1 is a function name.

**User response:** Remove the operation that takes the address of the built-in function.

CCN3193 The size of this type is zero.

**Explanation:** You cannot take the address of an array of size zero.

**User response:** Remove the operation that takes the address of the zero-sized array.

CCN3194 Incomplete type is not allowed.

**Explanation:** Except for pointers, you cannot declare

an object of incomplete type.

**User response:** Complete the type declaration.

CCN3195 Integral constant expression with a value greater than zero is required.

**Explanation:** The size of an array must be an expression that evaluates to a compile-time integer constant that is larger than zero.

User response: Change the expression.

CCN3196 Initialization between types "&1" and "&2" is not allowed.

**Explanation:** An attempt was made to initialize a variable with an incompatible type.

In the message text:

&1 and &2 are both type names.

**User response:** Ensure types are compatible.

CCN3197 Expecting header file name in #include directive.

**Explanation:** There was no header file name after the #include directive.

**User response:** Specify the header file name. Enclose system header names in angle brackets and user header names in double quotation marks.

CCN3198 #if, #else, #elif, #ifdef, #ifndef block must be ended with #endif.

**Explanation:** Every #if, #ifdef, and #ifndef must have a corresponding #endif.

**User response:** End the conditional preprocessor statements with a #endif.

CCN3199 #&1 directive requires a macro name.

**Explanation:** There must be a macro name after every #define, #undef, #ifdef or #ifndef.

In the message text:

&1 is a preprocessor directive.

**User response:** Ensure that a macro name follows the

#define, #undef, #ifdef, or #ifndef preprocessor directive.

### CCN3200 #elif can only appear within a #if, #elif, #ifdef, or #ifndef block.

**Explanation:** #elif is only valid within a conditional preprocessor block.

**User response:** Remove the #elif statement, or place it within a conditional preprocessor block.

## CCN3201 #else can only appear within a #if, #elif, #ifdef or #ifndef block.

**Explanation:** #else is only valid within a conditional preprocessor block.

**User response:** Remove the #else statement, or place it within a conditional preprocessor block.

# CCN3202 #endif can only appear at the end of a #if, #elif, #ifdef or #ifndef block.

**Explanation:** Every #endif must have a corresponding #if, #ifdef, or #ifndef.

**User response:** Remove the #endif statement, or place it after a conditional preprocessor block.

#### CCN3204 Unexpected end of file.

**Explanation:** The end of the source file has been encountered prematurely.

User response: Check for misplaced braces.

#### CCN3205 &1

**Explanation:** The #error directive was encountered. Compilation terminated.

In the message text:

&1 is text following the #error directive.

**User response:** Recompile with correct macro definitions.

# CCN3206 Suffix of integer constant &1 is not valid.

**Explanation:** Valid integer suffixes are u or U for unsigned, or l or L for long. Unsuffixed constants are given the smallest data type that can hold the value. Refer to the C/C++ Language Reference.

In the message text:

&1 is an integer constant.

**User response:** Change or remove the suffix.

#### CCN3207 Integer constant &1 out of range.

**Explanation:** The specified constant is too large to be represented by an unsigned long int.

In the message text:

&1 is an integer constant.

**User response:** The constant integer must have a value less than UINT\_MAX defined in limits.h>.

#### CCN3208 Compilation ended due to an I/O error.

**Explanation:** A file read or write error occurred.

**User response:** Ensure that you have read access to all source files, and read and write access to the TMP directory. You also need write access to the object output directory.

### CCN3209 Character constants must end before the end of a line.

**Explanation:** Character literals must be terminated before the end of the line.

**User response:** End the character literal before the end of the line. Check for misplaced quotation marks.

#### CCN3210 The ## operator requires two operands.

**Explanation:** The ## operator must be preceded and followed by valid tokens in the macro replacement list. Refer to the C/C++ Language Reference for information on the ## operator.

**User response:** Provide both operands for the ## operator.

# CCN3211 Parameter list must be empty, or consist of one or more identifiers separated by commas.

**Explanation:** The macro parameter list must be empty, contain a single identifier, or contain a list of identifiers separated by commas.

**User response:** Correct the parameter list.

## CCN3212 Duplicate parameter &2 in definition of macro &1.

**Explanation:** The identifiers in the macro parameter list must be unique.

In the message text:

&1 is a macro name, &2 is a parameter name.

**User response:** Change the identifier name in the parameter list.

#### CCN3213 Macro name &1 cannot be redefined.

**Explanation:** You can define a macro multiple times only if the definitions are identical except for white space separating the tokens.

In the message text:

&1 is a macro name.

**User response:** Change the macro definition to be identical to the preceding one, or remove it.

### CCN3215 Too many arguments specified for macro &1.

**Explanation:** The number of arguments specified in the macro invocation is different from the number of parameters specified in the macro definition.

In the message text:

&1 is a macro name.

**User response:** Make the number of arguments consistent with the macro definition.

#### CCN3218 Unknown preprocessing directive #&1.

**Explanation:** An unrecognized preprocessing directive has been encountered.

In the message text:

&1 is a preprocessor directive.

**User response:** Check the spelling and syntax or remove the directive.

### CCN3219 The #line value &1 is outside the range 1 to &2.

**Explanation:** The value for a #line directive must not exceed &2.

In the message text:

&1 and &2 are integers.

**User response:** Ensure that the #line value does not exceed &2.

# CCN3220 #line value &1 must contain only decimal digits.

**Explanation:** A nonnumerical character was encountered in the #line value.

In the message text:

&1 is an integer.

**User response:** Check the syntax of the value given.

### CCN3221 Initializer must be a valid constant expression.

**Explanation:** The initializers for objects of static storage duration, for elements of an array, or for members of a structure or union must be valid constant expressions.

**User response:** Remove the initialization or change the indicated initializer to a valid constant expression.

#### CCN3224 Incorrect pragma ignored.

**Explanation:** An unrecognized pragma directive was encountered. See the C/C++ Language Reference for the list of valid pragma directives.

**User response:** Change or remove the pragma directive.

### CCN3226 The ":" operator is not allowed between "&1" and "&2".

**Explanation:** The operands must be of compatible type

In the message text:

&1 and &2 are type names.

**User response:** Change the type of the operands.

#### CCN3229 File is empty.

**Explanation:** The source file contains no code.

**User response:** Check that the file name and path are correct. Add source code to the file.

# CCN3231 Error occurred while opening preprocessor output file.

**Explanation:** The preprocessor was unsuccessful in attempting to open the output file.

**User response:** Ensure you have write access to the file.

# CCN3232 Divisor for modulus or division operator cannot be zero.

**Explanation:** The value of the divisor expression cannot be zero.

**User response:** Change the expression used as the divisor.

### CCN3234 Expecting a new-line character on #&1 directive.

**Explanation:** A character sequence was encountered when the preprocessor required a new-line character.

In the message text:

&1 is a preprocessor directive.

**User response:** Add a new-line character.

### CCN3235 Incorrect escape sequence &1. \ ignored.

**Explanation:** An escape sequence that is not valid has been encountered in a string literal or a character literal. It is replaced by the character following the backslash (\).

In the message text:

&1 is an escape sequence.

**User response:** Change or remove the escape sequence.

### CCN3236 Macro name &1 has been redefined.

**Explanation:** An attempt is being made to redefine the macro.

In the message text:

&1 is a macro name.

**User response:** Change the name of the macro being defined.

### CCN3238 Function argument cannot be type void.

**Explanation:** The void type cannot appear in the argument list of a function call. The void type can appear in a parameter list only if it is a non-variable argument function. It is the only parameter in the list, and it is unnamed.

**User response:** Correct the argument or remove the argument.

## CCN3242 An object with external linkage declared at block scope cannot be initialized.

**Explanation:** You cannot declare a variable at block scope with the storage class extern and give it an explicit initializer.

**User response:** Initialize the external object in the external declaration.

# CCN3243 Value of enumeration constant must be in the range of &1.

**Explanation:** If an enum constant is initialized in the definition of an enum tag, the initial value must be a constant expression with a representable value of type specified in the message.

In the message text:

&1 is a type name.

**User response:** Remove the initial value, or ensure that it is a constant expression with a representable value of type specified in the message.

### CCN3244 External variable &1 cannot be redefined.

**Explanation:** An attempt was made to redefine an external variable.

In the message text:

&1 is an identifier.

**User response:** Remove the redefinition.

### CCN3245 Incompatible sign adjective "&1".

**Explanation:** Adjectives "signed" and "unsigned" can only modify integer type specifiers.

In the message text:

&1 is a type specifier.

**User response:** Either remove the sign adjective or use a different type specifier.

### CCN3246 Incompatible length adjective "&1".

**Explanation:** Length adjectives short and long can only be applied to particular scalar types. See the C/C++ Language Reference for valid types.

In the message text:

&1 is a type specifier.

**User response:** Either remove the length adjective or use a different type specifier.

### CCN3247 Incompatible type specifier "&1".

**Explanation:** The type specifier is not compatible with the type adjectives used. See the C/C++ Language Reference for valid combinations of type specifiers and adjectives.

In the message text:

&1 is a type specifier.

**User response:** Either remove the adjective or use a different type specifier.

### CCN3248 More than one storage class specifier

**Explanation:** A C declaration must only have one storage class specifier.

In the message text:

&1 is a storage class specifier.

**User response:** Ensure only one storage class is specified.

#### CCN3249 Identifier contains a \$ character.

**Explanation:** You cannot use the \$ character in an identifier. An identifier can contain alphanumeric characters and underscores. An identifier must start with either an underscore or alphabetic character.

**User response:** Remove the \$ character.

### CCN3250 Floating-point constant &1 out of range.

**Explanation:** The compiler detected a floating-point overflow either in scanning a floating-point constant, or in performing constant arithmetic folding.

In the message text:

&1 is a floating-point constant

**User response:** Change the floating-point constant so that it does not exceed the maximum value.

### CCN3251 Static function &1 is undefined.

**Explanation:** A static function was declared and referenced in this file. The definition of the function was not found before the end of the file. When a function is declared to be static, the function definition must appear in the same file.

In the message text:

&1 is a function name.

**User response:** Define the function in the file or remove the static storage class.

#### CCN3255 pragma &1 is out of sequence.

**Explanation:** The pragma directive was out of sequence. See the C/C++ Language Reference for the restrictions on placement.

In the message text:

&1 is a pragma name.

**User response:** Change or remove the pragma directive.

### CCN3258 Hexadecimal integer constant &1 is not valid.

**Explanation:** An invalid hexadecimal integer constant was specified. See the C/C++ Language Reference for details on specifying hexadecimal characters.

In the message text:

&1 is a hexadecimal integer constant.

**User response:** Change the value to a valid hexadecimal integer constant.

### CCN3260 Octal integer constant &1 is not valid.

**Explanation:** An invalid octal integer constant was specified. See the C/C++ Language Reference for details on specifying octal characters.

In the message text:

&1 is an octal integer constant.

**User response:** Change the value to a valid octal integer constant.

### CCN3261 Suboption &1 is not valid for option

**Explanation:** An invalid suboption was specified for some option.

In the message text:

&1 is a suboption, &2 is an option name.

**User response:** Change the suboption.

# CCN3262 pragma &1 must occur before first C statement in program. The pragma is ignored.

**Explanation:** This pragma must be specified before the first C token in the input (including header files).

In the message text:

&1 is a pragma name.

**User response:** Place the pragma directive in the file before any C code, or remove it.

# CCN3263 pragma strings directive can be specified only once per source file. pragma ignored.

**Explanation:** This pragma specifies whether string literals are placed in read-only memory. It must appear only once and before any C code.

**User response:** Change the location of the directive and ensure that it appears only once in the translation unit.

# CCN3264 pragma &1 directive can be specified only once per source file.

**Explanation:** There can only be one pragma &1 per source file.

In the message text:

&1 is a pragma name.

**User response:** Ensure that it occurs only once in the translation unit.

# CCN3266 Parameter(s) for pragma are out of range.

**Explanation:** The pragma parameters were invalid. See the C/C++ Language Reference for details on valid pragma parameters.

**User response:** Change the parameter.

### CCN3267 Unrecognized pragma ignored.

**Explanation:** An invalid pragma was encountered and ignored.

**User response:** Ensure that the pragma name is spelled correctly. A pragma with equivalent function, but a different name may exist. See the C/C++ Language Reference for a list of pragma directives.

# CCN3268 Macro &1 invoked with an incomplete argument for parameter &2.

**Explanation:** The parameter for the macro invocation must have a complete argument.

In the message text:

&1 is a macro name, &2 is a parameter name.

**User response:** Complete the specification of the macro argument list. Check for missing commas.

## CCN3271 The indirection operator cannot be applied to a void pointer.

**Explanation:** The indirection operator requires a pointer to a complete type. A void pointer is an incomplete type that can never be completed.

**User response:** Cast the pointer to a type other than void before this operation.

### CCN3272 Identifier not allowed in cast or sizeof declarations.

**Explanation:** Only abstract declarators can appear in cast or sizeof expressions.

**User response:** Remove the identifier from the cast or size of expression and replace it with an abstract declarator.

### CCN3273 Missing type in declaration of &1.

**Explanation:** A declaration was made without a type specifier.

In the message text:

&1 is an identifier.

**User response:** Insert a type specifier into the declaration.

### CCN3274 Missing declarator in member declaration.

**Explanation:** An aggregate member declaration must specify a name. A type cannot be followed by a semicolon.

**User response:** Declare the member with a name.

### CCN3275 Unexpected text &1 encountered.

**Explanation:** A syntax error has occurred. This message lists the tokens that were discarded by the parser when it tried to recover from the syntax error.

In the message text:

&1 is a token.

**User response:** Correct the syntax error and compile again.

### CCN3276 Syntax error: possible missing &1?

**Explanation:** A syntax error has occurred. This message lists the token that the parser expected and did not find.

In the message text:

&1 is a token.

**User response:** Correct the syntax error and compile again.

### CCN3277 Syntax error: possible missing &1 or &-2?

**Explanation:** A syntax error has occurred. This message lists the tokens that the parser expected and did not find.

In the message text:

&1 and &2 are tokens.

**User response:** Correct the syntax error and compile again.

# CCN3278 The structure definition must specify a member list.

**Explanation:** The declaration of a struct or a union that includes an empty member list enclosed between braces is not a valid struct or union definition.

**User response:** Specify the members of the struct or union in the definition or remove the empty braces to make it a simple struct or union tag declaration.

# CCN3279 A function declarator cannot have a parameter identifier list if it is not a function definition.

**Explanation:** A function declarator that is not also a function definition may not have a K&R style

### CCN3280 • CCN3290

parameter identifier list. An example is the " $x_y$ " in "int (\*fred(a,b)) ( $x_y$ ) {}".

User response: Remove the parameter identifier list.

# CCN3280 Function argument assignment between types "&1" and "&2" is not allowed.

**Explanation:** The type of the argument in the function call should match the corresponding parameter type in the function declaration.

In the message text:

&1 and &2 are types.

**User response:** Cast the argument to a different type, change the type or change the function prototype.

# CCN3281 Prefix and postfix increment and decrement operators cannot be applied to "&1".

**Explanation:** Increment and decrement operators cannot operate on pointers to function or pointers to void.

In the message text:

&1 is a type.

**User response:** Change the pointer to point to an object type.

# CCN3282 The type of the parameters must be specified in a prototype.

**Explanation:** A prototype specifies the number and the type of the parameters that a function requires. A prototype that does not specify the type of the parameters is not correct, for example,

fred(a,b);

**User response:** Specify the type of the parameters in the function prototype.

# CCN3283 Functions cannot be declared &1 at block scope, &2 is ignored.

**Explanation:** Functions declared at block scope can only have extern as an explicit storage class specifier and cannot be inline.

In the message text:

&1 and &2 is a storage class specifier or the inline specifier.

**User response:** Place the declaration of the function at file scope, or remove the storage class specifier or the inline specifier.

# CCN3285 The indirection operator cannot be applied to a pointer to an incomplete struct or union.

**Explanation:** A structure or union type is completed when the definition of its tag is specified. A struct or union tag is defined when the list describing the name and type of its members is specified.

**User response:** Complete the struct or union definition.

# CCN3286 A struct or union with no named members cannot be explicitly initialized.

**Explanation:** Only aggregates containing named members can be explicitly initialized.

**User response:** Name the members of the struct or union.

# CCN3287 The parameter list on the definition of macro &1 is not complete.

**Explanation:** There is a problem with the parameter list in the definition of the macro.

In the message text:

&1 is a macro name.

**User response:** Complete the parameter list. Look for misplaced or extra commas.

# CCN3288 Expecting file name or new-line character on #line directive.

**Explanation:** The #line directive requires a line number argument as its first parameter and a file name as an optional second parameter. No other arguments are allowed. A new-line character must be present after the argument list.

**User response:** Change the directive syntax.

### CCN3289 Macro &1 redefined with identical definition.

**Explanation:** Identical macro redefinitions are allowed but not necessary. The amount of white space separating the tokens has no bearing on whether macros are considered identical.

In the message text:

&1 is a macro name.

User response: Remove the redefinition.

# CCN3290 Unknown macro name &1 on #undef directive.

**Explanation:** An attempt is being made to undefine a macro that has not been previously defined.

In the message text:

&1 is a macro name.

**User response:** Check the spelling of the macro name or remove the #undef directive.

### CCN3291 Expecting decimal constant on #line directive.

**Explanation:** The value for a #line directive must be a decimal constant.

**User response:** Specify a line number on the #line directive.

# CCN3292 Multibyte character literal not allowed on #&1 directive.

**Explanation:** The directive does not allow a multibyte character literal.

In the message text:

&1 is a preprocessor directive.

User response: Remove the multibyte character literal.

# CCN3293 Identifier &1 assigned default value of zero on &2 directive.

**Explanation:** The indicated identifier in an #if or #elif expression was assigned the default value of zero. The identifier may have been intended to be expanded as a macro.

In the message text:

&1 is an identifier, &2 is a preprocessor directive.

**User response:** Add a #define for the macro before using it in a preprocessor conditional.

# CCN3294 Syntax error in expression on #&1 directive.

**Explanation:** The expression for a preprocessor directive contains a syntax error.

In the message text:

&1 is a preprocessor directive.

**User response:** Replace the expression that controls the directive with a constant integral expression.

# CCN3295 File ended with a continuation sequence.

**Explanation:** The file ended unexpectedly with a backslash character followed by a new-line character.

**User response:** Remove the continuation character from the last line of the file, or add code after the continuation character.

#### CCN3296 #include file &1 not found.

**Explanation:** The file specified on the #include directive could not be found. See the C/C++ Language Reference for file search order.

In the message text:

&1 is a file name.

**User response:** Ensure the #include file name and the search path are correct.

### CCN3297 Unable to open input file &1. (&2)

**Explanation:** The compiler was unable to open the input file.

In the message text:

&1 is a file name, &2 is an additional system error message.

**User response:** Ensure the file exists and that the compiler can access it.

### CCN3298 Unable to read input file &1. (&2)

**Explanation:** The compiler was unable to read the input file.

In the message text:

&1 is a file name, &2 is an additional system error message.

**User response:** Ensure the file exists and that the compiler can access it.

### CCN3299 Maximum #include nesting depth of &1 has been exceeded.

**Explanation:** The included files have been nested too deeply.

In the message text:

&1 is an integer.

**User response:** Reduce the number of nested include files.

### CCN3300 Insufficient storage available.

**Explanation:** The compiler ran out of memory trying to compile the file. This sometimes happens with large files or programs with large functions. Note that very large programs limit the amount of optimization that can be done.

**User response:** Increase your region size on MVS, or your virtual storage on VM. You can also divide the file into several small sections or shorten the function.

CCN3301

Redeclaration cannot specify fewer parameters than previous declaration.

**Explanation:** The function definition has fewer parameters than the prototype.

**User response:** Modify one of the function declarations so that the number and types of the parameters match.

CCN3302

The declarations of the function &1 must be consistent in their use of the ellipsis.

**Explanation:** The prototyped redeclaration of the function is not correct. Fewer parameters appear before the ellipsis in this function redeclaration than the previous declaration.

In the message text:

&1 is a function name.

**User response:** Ensure that the redeclaration is consistent with the previous declaration.

#### CCN3303

The type of the parameter &1 cannot conflict with the previous declaration of function &2.

Explanation: Nonprototype function declarations, popularly known as K&R prototypes, specify only the function return type. The function parentheses are empty; no information about the parameters is given.

Nonprototype function definitions specify a list of parameter names appearing between the function parentheses followed by a list of declarations (located between the parentheses and the opening left brace of the function) that indicates the type of the parameters. A nonprototype function definition is also known as a K&R function definition.

A prototype function declaration or definition specifies the type and the number of the parameters in the parameter declaration list that appears inside the function parentheses. A prototype function declaration is better known as an ANSI prototype, and a prototype function definition is better known as an ANSI function definition.

When the nonprototype function declarations/ definitions are mixed with prototype declarations, the type of each prototype parameter must be compatible with the type that results from the application of the default argument promotions.

Most types are already compatible with their default argument promotions. The only ones that aren't are char, short, and float. Their promoted versions are, respectively, int, int, and double.

This message can occur in several situations. The most common is when mixing ANSI prototypes with K&R function definitions. If a function is defined using a

K&R-style header, then its prototype, if present, must specify widened versions of the parameter types. Here is an example.

```
int fn(short); int fn(x) short x; {}
```

This is not valid because the function has a K&R-style definition and the prototype does not specify the widened version of the parameter. To be correct, the prototype should be

```
int fn(int);
```

because int is the widened version of short.

Another possible solution is to change the function definition to use ANSI syntax. This particular example would be changed to

```
int fn(short); int fn(short x) {}
```

This second solution is preferable, but either solution is equally valid.

In the message text:

&1 is a parameter name, &2 is a function name.

**User response:** Give a promoted type to the parameter in the prototype function declaration.

#### CCN3304 No function prototype given for "&1".

**Explanation:** A prototype declaration of the function specifying the number and type of the parameters was not found before the function was used. Errors may occur if the function call does not respect the function definition.

In the message text:

&1 is a function name.

**User response:** Add an appropriate function prototype before calling the function.

CCN3306

Subscript operator requires an array operand in the offsetof macro.

Explanation: A subscript was specified in the offsetof macro but the operand is not an array.

**User response:** Either change the operand to be an array type or remove the subscript operator.

CCN3307

Array index must be a constant expression in the offsetof macro.

**Explanation:** The offsetof macro is evaluated at compile time. Thus all arguments must be constant expressions.

**User response:** Change the expression.

CCN3308 Operand of the offsetof macro must be a struct or a union.

**Explanation:** The first operand of the offsetof macro must be a structure or union type.

**User response:** Change the operand.

CCN3309 The offsetof macro cannot be used with an incomplete struct or union.

**Explanation:** An incomplete struct or union is not a valid argument to the offsetof macro. A structure or union type is completed when the definition of its tag is specified.

**User response:** Ensure the struct or union is a complete type.

#### CCN3310

The type "&1 &2" was introduced in a parameter list, and will go out of scope at the end of the function declaration or definition.

**Explanation:** The tag will be added to parameter scope in ANSI mode. Thus it will go out of scope at the end of the declaration or function definition. In extended mode, the tag is added to the closest enclosing block scope.

In the message text:

&1 and &2 together form a type name.

**User response:** If the tag is needed for declarations outside its scope, move the tag declaration outside of parameter scope.

### CCN3311

Wide character constant &1 has more than one character. Last character is used.

**Explanation:** All but the last character in the constant will be discarded.

In the message text:

&1 is a wide character constant.

**User response:** Remove all but one character or change the character constant into a string literal.

### CCN3312 Compiler internal name &1 has been defined as a macro.

**Explanation:** Do not redefine internal compiler names.

In the message text:

&1 is a compiler internal name.

**User response:** Remove the macro definition or change the name of the macro being defined.

CCN3313 Compiler internal name &1 has been undefined as a macro.

**Explanation:** Do not redefine internal compiler names.

In the message text:

&1 is a compiler internal name.

**User response:** Remove the macro undefinition.

# CCN3314 The tag of this expression's type has gone out of scope.

**Explanation:** The tag used in the type declaration of the object has gone out of scope, however the object is still referenced in the expression.

**User response:** Either remove the reference to the object or move the tag's definition to a scope that encloses both the referenced object and the object's declaration.

## CCN3320 Operation is not allowed because the size of &1 is unknown.

**Explanation:** The operand must be a complete type for the compiler to determine its size.

In the message text:

&1 is a type.

**User response:** Provide a complete type definition.

### CCN3321 You can specify an initializer only for the first named member of a union.

**Explanation:** There can only be an initializer for the first named member of a union.

**User response:** Remove all union initializers other than the one attached to the first named member.

### CCN3322 Illegal multibyte character &1.

**Explanation:** The multibyte character specified is not valid.

In the message text:

&1 is a multibyte character.

**User response:** Correct the multibyte character.

# CCN3323 "double" should be used instead of "long float".

**Explanation:** The type long float is not valid; it is treated as a double.

**User response:** Remove the long type specifier or use double instead of float.

### CCN3324 • CCN3344

CCN3324 "&1" cannot be converted to "&2".

**Explanation:** The cast between the two types is not

allowed.

In the message text:

&1 is the type being converted from. &2 is the type being converted to.

**User response:** Remove the cast.

CCN3327 An error occurred while opening the listing file, &1.

Explanation: The compiler was unable to open the

listing file.

In the message text:

&1 is a file name.

**User response:** Ensure the file exists and that the compiler can access it.

CCN3328 ""&1" is not a valid hex digit."

Explanation: Valid hex digits are the letters

A,B,C,D,E,F,0,1,2,3,4,5,6,7,8,9.

In the message text:

&1 is a character.

**User response:** Change the digit.

CCN3329 Byte string must have an even length.

**Explanation:** The byte string for a pragma mcfunc

must be of even length.

User response: Ensure that the machine code string is

of even length.

CCN3332 Option &1 is ignored because option &2 is not specified.

**Explanation:** The option &1 is only valid when used in conjunction with &2.

In the message text:

&1 and &2 are both option names.

User response: Compile with &2.

CCN3334 Identifier &1 has already been defined on line &2 of "&3".

**Explanation:** There is more than one definition of an

identifier.

In the message text:

&1 is an identifier, &2 is a line number, &3 is a file

User response: Remove one of the definitions or

change the name of the identifier.

CCN3335 Parameter identifier list contains multiple occurrences of &1.

**Explanation:** Identifier names in a parameter list must

be unique.

In the message text:

&1 is a parameter name.

**User response:** Change the name of the identifier or remove the parameter.

CCN3339 A character string literal cannot be concatenated with a wide string literal.

**Explanation:** A string that has a prefix L cannot be concatenated with a string that is not prefixed. Concatenation requires that both strings be of the same type.

**User response:** Check the syntax of the value given.

CCN3341 #include header must be ended before the end of the line.

**Explanation:** A #include directive was specified across two or more lines.

**User response:** Ensure that the #include directive and its arguments are contained on a single line.

CCN3342 ""/\*" detected in comment."

**Explanation:** You can ignore this message if you intended "/\*" to be part of the comment. If you intended it to start a new comment, move it out of the enclosing comment.

**User response:** Remove "/\*" or ensure that "/\*" was intended in the comment.

CCN3343 Redeclaration of &1 differs from previous declaration on line &2 of "&3".

**Explanation:** The redeclaration is not compatible with the previous declaration.

In the message text:

&1 is an identifier, &2 is a line number, and &3 is a file name.

**User response:** Either remove one declaration or make the types compatible.

CCN3344 Member &1 has already been defined on line &2 of "&3".

**Explanation:** Member names must be unique within the same aggregate.

In the message text:

&1 is an identifier, &2 is a line number, and &3 is a file name.

**User response:** Change the name.

CCN3345 The data in precompiled header file &1 does not have the correct format.

**Explanation:** The precompiled header file may have become corrupt and is ignored.

In the message text:

&1 is a file name.

**User response:** Regenerate the precompiled header files.

# CCN3346 Unable to open precompiled header file &1 for input. The original header will be used.

**Explanation:** The compiler was unable to open the precompiled header file for reading and will use the original header.

In the message text:

&1 is a file name.

**User response:** Regenerate the precompiled header files.

# CCN3347 Precompiled header file &1 was created by a more recent release of the compiler. The original header will be used.

**Explanation:** The compiler cannot understand the format of the precompiled header, since it was generated using a more recent version of the compiler. The original text version of the header will be used.

In the message text:

&1 is a file name.

**User response:** Regenerate the precompiled header files.

# CCN3348 Unable to write to precompiled header file &1.

**Explanation:** The compiler was unable to write to the precompiled header files.

In the message text:

&1 is a file name.

**User response:** Ensure that the compiler has write access to the precompiled header files.

### CCN3350 Error writing to intermediate files. &1.

**Explanation:** An error occurred during compilation. Ensure the compiler has write access to the work files and that there is enough free space.

In the message text:

&1 is an error message.

User response: Recompile compilation unit.

### CCN3351 Error opening intermediate files.

**Explanation:** An error occurred during compilation. Ensure the compiler has write access to the work files and that there is enough free space.

**User response:** Recompile compilation unit.

# CCN3352 Incompatible specifications for options arch and tune.

**Explanation:** The values specified for tune option cannot be smaller than that of arch.

User response: Change option values.

#### CCN3356 Compilation unit is empty.

**Explanation:** There is no code in the compilation unit.

**User response:** Ensure the correct source file is specified. Recompile.

# CCN3357 Unable to generate prototype for "&1" because one or more enum, struct, or union specifiers did not have a tag.

**Explanation:** A prototype could not be generated for the function because the enum, struct or union declaration did not have a tag.

In the message text:

&1 is a function name.

User response: Specify a tag.

### CCN3358 "&1" is defined on line &2 of &3.

**Explanation:** This message indicates where a previous definition is located.

In the message text:

&1 is an identifier name. &2 is a line number. &3 is a file name.

**User response:** Remove one of the definitions or change the name of the identifier.

CCN3359

Automatic variable &1 contains a const member and is not initialized. It will be initialized to zero.

**Explanation:** An automatic variable that has a const member is not initialized. The compiler is using zero as the initializer.

In the message text:

&1 is an identifier name.

User response: Initialize the const member.

CCN3360

Same pragma &1 has already been specified for object "&2"; this specification is ignored.

**Explanation:** The repetition of the pragma is redundant and is ignored.

In the message text:

&1 is the name of the pragma, &2 is an identifier name.

**User response:** Remove the duplicate pragma.

CCN3361

A different pragma &1 has already been specified for object "&2", this specification is ignored.

**Explanation:** A previous pragma for the object is taking precedence over this pragma.

In the message text:

&1 is the name of the pragma, &2 is an identifier name.

**User response:** Remove one of the pragma directives.

CCN3362

Identifier "&1" was referenced in pragma &2, but was never actually declared.

**Explanation:** A pragma refers to an identifier that has not been declared.

In the message text:

&1 is an identifier name, &2 is the name of the pragma.

**User response:** Declare the identifier or remove the pragma.

CCN3363

Packing boundary must be specified as one of 1, 2, 4, 8 or 16.

**Explanation:** Objects must be packed on 1, 2, 4, 8 or 16 byte boundaries.

**User response:** Change the packing specifier.

CCN3364 main must have C calling convention.

**Explanation:** An inappropriate linkage has been specified for the main function. This function is the starting point of the program so only C linkage is allowed

**User response:** Change the calling convention of main.

CCN3366

Declaration cannot specify multiple calling convention specifiers.

**Explanation:** A declaration can specify only one calling convention. Valid calling conventions include: OS, COBOL, PLI, FORTRAN

**User response:** Remove extra calling convention specifiers.

CCN3367

Only functions or typedefs of functions can be given a calling convention.

**Explanation:** A calling convention protocol keyword has been applied to an identifier that is not a function type or a typedef to a function type.

**User response:** Check that correct identifier is specified or remove pragma.

CCN3369

The function cannot be redeclared with a different calling convention.

**Explanation:** The redeclaration of this function cannot have a different calling convention than the previous declaration. The function could have been given a calling convention through a typedef, or via a previous declaration.

**User response:** Make sure all declarations of the function specify the same calling convention.

CCN3374

Pointer types "&1" and "&2" are not compatible.

**Explanation:** The types pointed to by the two pointers are not compatible.

In the message text:

&1 and &2 are types.

**User response:** Change the types to be compatible.

CCN3376

Redeclaration of &1 has a different number of fixed parameters than the previous declaration.

**Explanation:** The number of fixed parameters in the redeclaration of the function does not match the original number of fixed parameters.

In the message text:

&1 is a function name.

**User response:** Change the declarations to have the same number of parameters, or rename or remove one of the declarations.

CCN3377

The type "&1" of parameter &2 differs from the previous type "&3".

**Explanation:** The type of the corresponding parameter in the previous function declaration is not compatible.

In the message text:

&1 is a type, &2 is a parameter name, &3 is a type.

User response: Change the parameter declaration or rename the function declaration.

CCN3378

Prototype for function &1 cannot contain "..." when mixed with a nonprototype declaration.

**Explanation:** A function prototype and a nonprototype declaration can not be compatible if one contains "...".

**User response:** Convert nonprototype declaration to a prototyped one or remove the "...".

CCN3379

Prototype for function &1 must contain only promoted types if prototype and nonprototype declarations are mixed.

**Explanation:** Nonprototype declarations have their parameters automatically promoted. Integral widening conversions are applied to integral types and float is converted into double.

In the message text:

&1 is a function name.

**User response:** Promote the parameter types in the prototyped declaration.

CCN3380

Parameter &1 has type "&2" which promotes to "&3".

Explanation: Nonprototype declarations have their parameters automatically promoted. Integral widening conversions are applied to integral types and float is converted into double.

In the message text:

&1 is a parameter name, &2 and &3 are types.

**User response:** Promote the parameter types in the prototyped declaration.

CCN3381

The type "&1" of parameter &2 in the prototype declaration is not compatible with the corresponding parameter type "&3" in the nonprototype declaration.

compatible.

**Explanation:** The types of the parameters must be

In the message text:

&1 is a type, &2 is a parameter name, &3 is a type.

**User response:** Change the parameters so that they are compatible.

CCN3382

The type "&1" of identifier &2 differs from previous type "&3".

**Explanation:** The two types are not compatible.

In the message text:

&1 is a type, &2 is an identifier, &3 is a type.

**User response:** Change the parameter types so that they are compatible.

CCN3383

Expecting "&1" to be an external identifier.

**Explanation:** The identifier must have external linkage.

In the message text:

&1 is an identifier.

**User response:** Change the storage class to extern.

CCN3384

Expecting "&1" to be a function name.

**Explanation:** "&1" should be a function symbol.

In the message text:

&1 is an identifier.

User response: Specify a different name or change the type of the symbol.

CCN3387

The enum cannot be packed to the requested size. Change the enumeration value or change the pragma enum().

**Explanation:** Enums may be 1, 2, or 4 bytes in size.

User response: Change the enumeration value or change the pragma enum().

CCN3388

Value &1 specified in pragma &2 is out of range.

**Explanation:** Refer to the C/C++ Language Reference for more information about the valid values for the pragmas.

In the message text:

&1 is an integer, &2 is a pragma name.

**User response:** Specify a different value.

**CCN3389** 

Some program text not scanned due to &1 option or pragma &2.

Explanation: MARGINS or SEQUENCE option, or pragma margins or sequence was used to limit the valid text region in a source file.

In the message text:

&1 is an option name, &2 is a pragma name.

User response: Remove the MARGINS or SEQUENCE option, or remove the pragma margins or sequence, or specify a more inclusive text region.

#### CCN3390

The function or variable &1 cannot be declared as an import in the same compilation unit in which it is defined.

Explanation: An object or function has both a definition and an import directive in this compilation unit. This creates a conflict, since the function or object can be defined either here or where it is exported from, but not in both places.

In the message text:

&1 is an identifier.

User response: Remove the pragma import directive or \_\_import keyword or change the definition of the object or function into an extern declaration.

### CCN3393

&1 value must contain only decimal digits.

**Explanation:** A nonnumerical character was encountered in the &1 value.

In the message text:

&1 is a pragma name.

**User response:** Check the syntax of the value given.

#### CCN3394

Ordinal value on pragma &1 is out of range.

**Explanation:** The specified ordinal number should be between 0 and 65535, inclusive.

In the message text:

&1 is a pragma name.

**User response:** Change the value accordingly

#### CCN3395

Variable &1 must be an external object or a function name for use with pragma import.

**Explanation:** The identifier specified by the pragma is not a function or external object.

In the message text:

&1 is an identifier.

**User response:** Declare the object with storage class "extern".

#### CCN3396

Option &1 is incompatible with option &2 and is ignored.

**Explanation:** The option is not compatible with another option so it is ignored.

In the message text:

&1 and &2 are option names.

**User response:** Remove one of the options.

### CCN3397

Undefined function or variable &1 cannot have a pragma export.

Explanation: Only defined variables or functions can be specified as an export.

In the message text:

&1 is an identifier.

**User response:** Define the function or variable.

#### CCN3398

Bit field type specified for &1 is non-portable. The type should be signed int, unsigned int or int.

**Explanation:** The specification of the bit field type may cause problems with porting the code to another system.

In the message text:

&1 is an identifier.

User response: Change the type specifier.

#### CCN3399

The alignment of a structure/union is determined at the left brace of the definition.

**Explanation:** The alignment of an aggregate is constant throughout its definition.

**User response:** No response required.

### CCN3400

pragma &1 must appear only once in any C file.

Explanation: The specified pragma can only be used once.

In the message text:

&1 is a pragma name.

**User response:** Remove all but one of the specified pragma directives.

# CCN3401 Function &1 must be defined for pragma entry.

**Explanation:** The function must be defined for it to be specified using pragma entry.

In the message text:

&1 is a function name.

**User response:** Define the function.

# CCN3402 &1 must be an externally-defined function for use with pragma entry.

**Explanation:** The identifier must be defined as a function with external linkage for it to be specified using pragma entry.

In the message text:

&1 is a function name.

**User response:** Define the function.

# CCN3408 The linkage protocol is not supported on the target platform.

**Explanation:** An attempt to use an unsupported linkage protocol was made.

**User response:** Remove the linkage protocol

keywords.

### CCN3409 The static variable "&1" is defined but never referenced.

**Explanation:** A variable that is defined but never used probably serves no purpose.

In the message text:

&1 is an identifier.

**User response:** Remove the variable definition if you are not going to use the variable.

### CCN3410 The automatic variable "&1" is defined but never referenced.

**Explanation:** A variable that is defined but never used likely serves no purpose.

In the message text:

&1 is an identifier.

**User response:** Remove the variable definition.

# CCN3411 An array that is not an lvalue cannot be subscripted.

**Explanation:** A non-lvalue array is created when a function returns a structure that contains an array. This array cannot be dereferenced.

**User response:** Remove the subscript.

### CCN3412 Referenced variable "&1", which was not initialized in its declaration.

**Explanation:** The variable referenced was not initialized in its declaration. At the point of the first reference, the variable might or might not have already been set to a value, depending on the code executed prior to the point of the first reference.

In the message text:

&1 is an identifier.

**User response:** This is an informational message to aid debugging. Either initialize the variable in its declaration, or trace the code carefully to make sure that it is set to a value prior to the first reference.

### CCN3413 A goto statement is used.

**Explanation:** The use of goto statements may result in code that is more difficult to trace.

**User response:** Replace the goto statement with equivalent structured-programming constructs.

### CCN3414 The parameter "&1" is never referenced.

**Explanation:** The parameter is passed to the function, but is not referenced anywhere within the function body.

In the message text:

&1 is a parameter name.

**User response:** Remove the parameter from the function prototype.

### CCN3415 The external function definition "&1" is never referenced.

**Explanation:** A function that is defined but never used likely serves no purpose.

In the message text:

&1 is a function name.

**User response:** Remove the function definition, unless needed in another compilation unit.

# CCN3416 Taking the negative of the most negative value, '&1', of a signed type will cause truncation.

**Explanation:** The negative of the most negative value cannot be represented as a positive value of the same type.

In the message text:

&1 is a numeric string.

**User response:** Change the value or use a larger data type.

## CCN3417 The function &1 is not defined but has pragma inline directive specified.

**Explanation:** A pragma inline has been applied to an identifier which does not exist or does not correspond to a function.

In the message text:

&1 is a function name.

**User response:** Check that correct identifier is specified or remove the pragma.

# CCN3418 '&1' does not evaluate to a constant that fits in its signed type.

**Explanation:** The expression evaluates to a number that is not within the range that can be stored by the target.

In the message text:

&1 is a numeric string.

**User response:** Change the expression so it evaluates to a value in the valid range.

## CCN3419 Converting &1 to type "&2" does not preserve its value.

**Explanation:** The user cast converts &1 to a type that cannot contain the value of the original type.

In the message text:

&1 is an numeric string, &2 is a type.

**User response:** Change the cast.

# CCN3420 An unsigned comparison is performed between an unsigned value and a negative constant.

**Explanation:** Comparing an unsigned value with a signed value may produce unexpected results.

**User response:** Type-cast the unsigned value to a signed type if a signed comparison is the comparison that you want, or type-cast the negative constant to an unsigned type if an unsigned comparison is the comparison that you want.

### CCN3421 The comparison is always true.

**Explanation:** The type specifiers of the values being compared result in a constant result.

**User response:** Simplify or remove the conditional expression.

### CCN3422 The comparison is always false.

**Explanation:** The type specifiers of the values being compared result in a constant result.

**User response:** Simplify or remove the conditional expression.

### CCN3423 The comparison may be rewritten as '&-1'

**Explanation:** The type specifiers of the values being compared may allow the expression to be simplified.

In the message text:

&1 is a comparison expression.

**User response:** Simplify the comparison expression.

### CCN3424 The condition is always true.

**Explanation:** Because the value of the conditional expression is constant, it may be possible to simplify or remove the conditional test.

**User response:** Change the conditional expression or remove the conditional test.

### CCN3425 The condition is always false.

**Explanation:** Because the value of the conditional expression is constant, it may be possible to simplify or remove the conditional test.

**User response:** Change the conditional expression or remove the conditional test.

# CCN3426 An assignment expression is used as a condition. An equality comparison (==) may have been intended.

**Explanation:** A single equal sign '=' is often mistakenly used as an equality comparison operator.

**User response:** Ensure an assignment operation was intended.

# CCN3427 A constant expression is used as a switch condition.

**Explanation:** The same code path will be taken through every execution of the switch statement.

**User response:** Change the switch expression to be a non-constant value or remove the unused portions of the switch structure.

### CCN3428

The left-hand side of a shift expression is an unparenthesized arithmetic expression which has a higher precedence.

**Explanation:** The left-hand expression is evaluated before the shift operator.

**User response:** Place parentheses around the left-hand expression to make the order of operations explicit.

#### CCN3429

The right-hand side of a shift expression is an unparenthesized arithmetic expression which has a higher precedence.

**Explanation:** The right-hand expression is evaluated before the shift operator.

**User response:** Place parentheses around the right-hand expression to make the order of operations explicit.

#### CCN3430

The result of a comparison is either 0 or 1, and may not be appropriate as operand for another comparison operation.

**Explanation:** The comparison expression may be malformed.

**User response:** Ensure that the resulting value from the comparison is appropriate for use in the following comparison.

#### CCN3431

The left-hand side of a bitwise &, |, or ^ expression is an unparenthesized relational, shift, or arithmetic expression which has a higher precedence.

**Explanation:** The left-hand expression is evaluated before the bitwise operator.

**User response:** Place parentheses around the left-hand expression to make the order of operations explicit.

#### CCN3432

The right-hand side of a bitwise &, |, or ^ expression is an unparenthesized relational, shift, or arithmetic expression which has a higher precedence.

**Explanation:** The right-hand expression is evaluated before the bitwise operator.

**User response:** Place parentheses around the right-hand expression to make the order of operations explicit.

#### CCN3433

The right-hand side of a bitwise shift expression should be positive and less than the width in bits of the promoted left operand.

**Explanation:** This expression may not be portable.

**User response:** Change the shift expression.

#### CCN3434

The left-hand side of a bitwise right shift expression has a signed promoted type.

**Explanation:** This expression may not be portable.

**User response:** Change the shift expression.

#### CCN3435

An expression statement should have some side effects because its value is discarded.

**Explanation:** If an expression statement has no side effects, then it may be possible to remove the statement with no change in program behavior.

**User response:** Change or remove the expression statement.

#### CCN3436

Left-hand side of comma expression should have side effects because its value is discarded.

**Explanation:** A comma expression evaluates to its right-hand operand.

**User response:** Change the expression.

#### CCN3437

The init or re-init expression of a for statement should have some side effects since its value is discarded.

**Explanation:** If the init and/or the re-init expression of a for statement have no side effects, the loop may not execute as intended.

**User response:** Change the init and/or re-init expressions.

### CCN3438

The variable "&1" might be used before it is set.

**Explanation:** Because the variable has not been initialized, its value is undefined. The results of using an undefined variable are unpredictable.

In the message text:

&1 is an identifier.

**User response:** Add an initialization statement or change the expression.

#### CCN3439

Assigning enum type "&1" to enum type "&2" may not be correct.

**Explanation:** The values of the enumerated types may be incompatible.

In the message text:

&1 and &2 are enumerated type names.

**User response:** Change the types of the values being assigned.

### CCN3440 • CCN3452

CCN3440 Cannot assign an invalid enumerator value to enum type "&1".

**Explanation:** The value being assigned is not a member of the enumeration.

In the message text:

&1 is an enumerated type name.

**User response:** Change the value being assigned, or make it an enumeration member.

CCN3441 The macro definition will override the keyword "&1".

**Explanation:** Overriding a C keyword with a preprocessor macro may cause unexpected results.

In the message text:

&1 is a keyword.

**User response:** Change the name of the macro or remove it.

CCN3442 A trigraph sequence occurs in a character literal.

**Explanation:** The trigraph sequence will be converted. A literal interpretation may have been intended.

**User response:** Change the value of the character literal.

CCN3443 A trigraph sequence occurs in a string literal.

**Explanation:** The trigraph sequence will be converted. A literal interpretation may have been intended.

**User response:** Change the value of the string literal.

CCN3444 The opening brace is redundant.

**Explanation:** The initialization expression contains extra, possibly unnecessary, braces.

**User response:** Remove the extra braces.

CCN3445 The closing brace is redundant.

**Explanation:** The initialization expression contains

extra, possibly unnecessary, braces.

**User response:** Remove the extra braces.

CCN3446 Array element(s) [&1] will be initialized with a default value of 0.

**Explanation:** Some array elements were not explicitly initialized. They will be assigned the default value.

In the message text:

&1 is an integer array element index, or a range of array element indices.

**User response:** Add initializations if necessary.

CCN3447 The member(s) starting from "&1" will be initialized with a default value of 0.

**Explanation:** Some members were not explicitly initialized. They will be assigned the default value.

In the message text:

&1 is an identifier.

User response: Add initializations if necessary.

CCN3448 Assigning a packed struct to an unpacked struct, or vice versa, requires remapping.

**Explanation:** Assignments between packed/unpacked structures may produce incorrect results.

**User response:** Change the type qualifiers of the values in the assignment.

CCN3449 Missing return expression.

**Explanation:** If a function has a non-void return type, then all return statements must have a return expression of the correct type.

**User response:** Add a return expression.

CCN3450 Obsolete non-prototype-style function declaration.

**Explanation:** The K&R-style function declaration is obsolete.

**User response:** Change the function declaration to the prototyped style.

CCN3451 The target integral type cannot hold all possible values of the source integral type.

**Explanation:** Data loss or truncation may occur because of the type conversions.

**User response:** Change the types of the values in the expression.

CCN3452 Assigning a floating-point type to an integral type may result in truncation.

**Explanation:** Data loss or truncation may occur because of the type conversions.

**User response:** Change the types of the values in the expression.

CCN3453

Assigning a floating-point type to another floating-point type with less precision.

**Explanation:** Data loss or truncation may occur because of the type conversions.

**User response:** Change the types of the values in the

expression.

CCN3454 &1 condition evaluates to &2.

**Explanation:** This message traces preprocessor expression evaluation.

In the message text:

&1 is a condition, &2 is a value.

**User response:** No response required.

CCN3455 defined(&1) evaluates to &2.

**Explanation:** This message traces preprocessor #ifdef

and #ifndef evaluation.

In the message text:

&1 is an identifier, &2 is a value.

**User response:** No response required.

CCN3456 Stop skipping tokens.

Explanation: This messages traces conditional

compilation activity.

**User response:** No response required.

CCN3457 File &1 has already been included.

**Explanation:** This #include directive is redundant.

In the message text: &1 is a file name.

**User response:** Remove the #include directive.

CCN3458 #line directive changing line to &1 and

file to &2.

Explanation: This message traces #line directive

evaluation.

In the message text:

&1 is a line number, &2 is a file name.

User response: No response required.

CCN3459 #line directive changing line to &1.

Explanation: This message traces #line directive

evaluation.

In the message text:

&1 is a line number.

**User response:** No response required.

CCN3460 &1 nesting level is &2.

Explanation: This message traces conditional

compilation activity.

In the message text:

&1 is a token, &2 is an integer.

User response: No response required.

CCN3461 Generating precompiled header file &1.

Explanation: This message traces precompiled header

generation activity.

In the message text:

&1 is a file name.

**User response:** No response required.

CCN3462 Precompiled header file &1 is found but not used because it is not up to date.

Explanation: This message traces precompiled header

file generation activity.

In the message text:

&1 is a file name.

**User response:** No response required.

CCN3463 Using precompiled header file &1.

Explanation: This message traces precompiled header

file generation activity.

In the message text:

&1 is a file name.

**User response:** No response required.

CCN3464 Begin skipping tokens.

**Explanation:** This messages traces conditional

compilation activity.

**User response:** No response required.

CCN3465 #undef undefining macro name &1.

**Explanation:** This message traces #undef preprocessor

directive evaluation.

In the message text:

&1 is a macro name.

**User response:** No response required.

### CCN3466 • CCN3478

CCN3466 Unary minus applied to an unsigned type.

**Explanation:** The negation operator is inappropriate for unsigned types.

**User response:** Remove the operator or change the type of the operand.

### CCN3467 String literals concatenated.

**Explanation:** Two string literals, each delimited by quotation marks, have been combined into a single literal.

**User response:** No response is necessary. This is an informational message.

### CCN3468 Macro name &1 on #define is also an identifier.

**Explanation:** The name of the macro has already been used.

In the message text:

&1 is a macro name.

**User response:** Change the name of the macro.

# CCN3469 The static function "&1" is declared or defined but never referenced.

**Explanation:** A function that is defined but never used serves no purpose.

In the message text:

&1 is a function name.

**User response:** Remove the function definition.

### CCN3470 Function "main" should return int, not void.

**Explanation:** According to the ANSI/ISO standard, main should return int not void. Earlier standards (such as k&R) allowed a void return type for main.

**User response:** Change the return type of the function.

# CCN3471 Case label is not a member of enum type "&1"

**Explanation:** Case labels must be members of the type of the switch expression.

In the message text:

&1 is an enumerated type name.

**User response:** Change the value of the case label.

### CCN3472 Statement may be unreachable.

**Explanation:** The flow of execution may cause this statement to never be reached.

**User response:** Change the control flow in the program or remove the potentially unreachable statement.

# CCN3473 An unintended semi-colon may have created an empty loop body.

**Explanation:** The loop body has no statements, and the conditional expression has no side effects.

**User response:** If this is what was intended, use "{}" instead of a semi-colon as empty loop body to avoid this message.

### CCN3474 Loop may be infinite.

**Explanation:** The value of the conditional expression and/or the lack of exit points may result in an infinite loop.

**User response:** Adjust the conditional expression or add loop exit statements.

# CCN3475 The real constant arithmetic expression folds to positive infinity.

**Explanation:** Constant folding results in an overflow.

**User response:** Change the expression.

# CCN3476 The real constant arithmetic expression folds to negative infinity.

**Explanation:** Constant folding results in an overflow.

**User response:** Change the expression.

### CCN3477 The real constant arithmetic expression folds to a NaN.

**Explanation:** Constant folding results in

Not-a-Number (NaN).

User response: Change the expression.

# CCN3478 The then branch of conditional is an empty statement.

**Explanation:** If the condition is true, then no statement is executed.

**User response:** Add a statement to be executed, or remove the conditional statement.

# CCN3479 Both branches of conditional statement are empty statements.

**Explanation:** A conditional statement with empty branches is possibly degenerate.

**User response:** Add code to the conditional branches.

# CCN3480 Missing break statement allows fall-through to this case.

**Explanation:** The preceding case did not end with a break, return, or goto statement, allowing the path of execution to fall-through to the code in this case.

**User response:** Add an appropriate terminating statement to the previous case, unless the fall-through was intentional.

# CCN3481 The end of the function may be reached without returning a value.

**Explanation:** A return statement should be used to exit any function whose return type is non-void.

**User response:** Add a return statement, or change the function to return void.

# CCN3482 The opening brace before this point is redundant.

**Explanation:** The initialization expression contains extra, possibly unnecessary, braces.

**User response:** Remove the extra braces.

# CCN3483 Switch statement contains no cases or only default case.

**Explanation:** Code within a switch statement block that is not preceded by either "default" or "case" is never executed, and may be removed. Switch statements with neither "default" or "case" are probably incorrect

**User response:** Change the switch statement to include cases.

### CCN3484 External name &1 has been truncated to &2.

**Explanation:** The external name exceeds the maximum length and has been truncated. This may result in unexpected behavior if two different names become the same after truncation.

In the message text:

&1 and &2 are identifier names.

**User response:** Reduce the length of the external name.

# CCN3485 Parameter declaration list is incompatible with declarator for &1.

**Explanation:** An attempt has been made to attach a parameter declaration list with a declarator which cannot have one.

**User response:** Change declarator or remove parameter declaration list.

### CCN3486 A pointer to an incomplete type cannot be indexed.

**Explanation:** An index has been used with a pointer to an incomplete type.

**User response:** Declare the type that is pointed at or remove the index.

### CCN3487 An argument cannot be an incomplete struct or union.

**Explanation:** An incomplete aggregate cannot be used as an argument to a function.

**User response:** Declare the type that is pointed at or use a pointer to the aggregate.

# CCN3489 The incomplete struct or union tag &1 was not completed before going out of scope.

**Explanation:** A struct or union tag was declared inside a parameter list or a function body, but no member declaration list was provided.

In the message text:

&1 is a struct or union tag name.

**User response:** If the struct or union tag was declared inside a parameter list, provide a member declaration list at file scope. If the tag was declared inside a function body, provide a member declaration list within that function body.

### CCN3490 The static variable "&1" is set but never referenced.

**Explanation:** A variable that is initialized but never used serves no purpose.

In the message text:

&1 is an identifier.

**User response:** Remove the variable definition if you do not intend to use it.

# CCN3491 The automatic variable "&1" is set but never referenced.

**Explanation:** A variable that is initialized but never used likely serves no purpose.

### CCN3492 • CCN3509

In the message text:

&1 is an identifier.

**User response:** Remove the variable definition if you do not intend to use it.

### CCN3492 Redefinition of &1 hides previous definition.

**Explanation:** The definition within the current scope hides a definition with the same name in an enclosing scope.

In the message text:

&1 is an identifier.

**User response:** Change the name to avoid redefining it

# CCN3493 The external variable "&1" is defined but never referenced.

**Explanation:** A variable that is defined but never used likely serves no purpose.

In the message text:

&1 is an identifier.

**User response:** Remove the variable definition, unless needed in another compilation unit.

### CCN3494 The external variable "&1" is set but never referenced.

**Explanation:** A variable that is initialized but never used serves no purpose.

In the message text:

&1 is an identifier.

**User response:** Remove the variable definition, unless needed in another compilation unit.

### CCN3495 Pointer type conversion found.

**Explanation:** An attempt is being made to convert a pointer of one type to a pointer of another type.

**User response:** Check the types of the values involved in the expression, and make them compatible.

# CCN3496 Parameter(s) for pragma &1 are of the wrong type.

**Explanation:** The parameter for the pragma is incorrect and of the wrong type.

In the message text:

&1 is a pragma name.

**User response:** Find the correct type in the C/C++ Language Reference.

### CCN3497 Incomplete enum type not allowed.

**Explanation:** An incomplete enum is being used

where a complete enum type is required.

**User response:** Complete the type declaration.

# CCN3498 Member of struct or union cannot be incomplete type.

**Explanation:** An incomplete aggregate is being used where a complete struct or union is required.

**User response:** Complete the type declaration.

### CCN3499 Function "main" should return int.

**Explanation:** A return type other than int was specified for function main.

**User response:** Change the return type to int.

### CCN3503 The option "&1" is not supported.

**Explanation:** The option specified is not supported on this platform

this platform.

In the message text:

&1 is an option name.

**User response:** Remove the option.

# CCN3505 Type "&1" of identifier "&2" was incomplete at the end of its scope.

**Explanation:** An incomplete declaration was made of some identifier and it is still incomplete at the end of its scope.

In the message text:

&1 is a type name, &2 is an identifier.

User response: Complete the declaration.

# CCN3508 Option &1 for pragma &2 is not supported.

**Explanation:** For a list of all valid options for pragma directives, see the C/C++ Language Reference.

In the message text:

&1 is an option name, &2 is a pragma name.

**User response:** Ensure the pragma syntax and options are correct.

### CCN3509 Symbol &1 on a pragma &2 was not

**Explanation:** For a list of all valid options for pragma directives, see the C/C++ Language Reference.

In the message text:

&1 is a symbol name, &2 is a pragma name.

**User response:** Ensure the pragma syntax and options are correct.

#### CCN3512 An initializer is not allowed for "&1".

**Explanation:** An attempt was made to initialize an identifier whose type does not permit initialization.

In the message text:

&1 is a C name or keyword.

User response: Remove the initializer.

# CCN3513 Array element designator exceeds the array dimension. Designator will be ignored.

**Explanation:** The value of the designator was larger than the dimension declared for the array object.

**User response:** Change the expression forming the array index.

# CCN3514 Array element designator cannot be applied to an object of type "&1".

**Explanation:** An array element designator can only be applied to an object of array type.

In the message text:

&1 is a type.

**User response:** Remove the subscript.

# CCN3515 Member designator cannot be applied to an object of type "&1".

**Explanation:** A member designator can only be applied to an object of type struct or union.

In the message text:

&1 is a type.

**User response:** Remove the member designator.

### CCN3517 Option &1 for pragma is not supported.

**Explanation:** For a list of all valid options for pragma directives, see the C/C++ Language Reference.

In the message text:

&1 is an option name.

**User response:** Ensure the pragma syntax and options are correct.

# CCN3518 Option(s) for pragma &1 are missing or incorrectly specified.

**Explanation:** pragma &1 is not correctly specified.

In the message text:

&1 is a pragma name.

**User response:** Ensure the pragma syntax and options are correct.

# CCN3519 Index operator ([]) cannot be applied to pointer to void.

**Explanation:** Index operator ([]) can only be applied to arrays or pointers to objects.

**User response:** Change the operand.

# CCN3520 Switch block begins with declarations or unlabeled statements that are unreachable.

**Explanation:** Code within a switch block must be labeled with either "case" or "default" to be reachable.

**User response:** Add a label or remove the unreachable code.

# CCN3521 Pointer arithmetic can only be applied to a arrays that are lvalues.

**Explanation:** Because the array is compiler-generated, it is not an Ivalue. Therefore, you cannot apply pointer arithmetic to it.

**User response:** Change the expression.

# CCN3522 Unable to open precompiled header &1 for output.

**Explanation:** The compiler was unable to open the precompiled header file.

In the message text:

&1 is a file name.

**User response:** Ensure that the compiler has write access to the precompiled header files.

## CCN3524 The \_Packed qualifier can only qualify a struct or union.

**Explanation:** The \_Packed qualifier is only valid for structures and unions.

User response: Remove \_Packed qualifier.

### CCN3531 End of precompiled header processing.

**Explanation:** The compiler has finished processing a precompiled header.

**User response:** No response required. This message merely traces the activity of the precompiled header processing.

### CCN3545 The decimal size is outside the range of

**Explanation:** The specified decimal size should be between 1 and DEC\_DIG.

In the message text:

&1 is an integer.

**User response:** Specify the decimal size between 1 and DEC\_DIG.

# CCN3546 The decimal precision is outside the range of 0 to &1.

**Explanation:** The specified decimal precision should be between 0 and DEC\_PRECISION.

In the message text:

&1 is an integer.

**User response:** Specify the decimal precision between 0 and DEC PRECISION.

### CCN3547 The decimal size is not valid.

**Explanation:** The decimal size must be a positive constant integral expression.

**User response:** Specify the decimal size as a positive constant integral expression.

### CCN3548 The decimal precision is not valid.

**Explanation:** The decimal precision must be a constant integral expression.

**User response:** Specify the decimal precision as a constant integral expression.

## CCN3549 The decimal precision is bigger than the decimal size.

**Explanation:** The specified decimal precision should be less than or equal to the decimal size.

**User response:** Specify the decimal precision less than or equal to the decimal size.

### CCN3550 The decimal constant is out of range.

**Explanation:** The compiler detected a decimal overflow in scanning a decimal constant.

**User response:** Change the decimal constant so that it does not exceed the maximum value.

### CCN3551 The fraction part of the result was truncated.

**Explanation:** Due to limitations on the number of digits representable, the calculated intermediate result may result in truncation in the decimal places after the operation is performed.

**User response:** Check to make sure that no significant digit is lost.

# CCN3552 The pre- and post- increment and decrement operators cannot be applied to type &1.

**Explanation:** The decimal types with no integral part cannot be incremented or decremented.

In the message text:

&1 is a type.

**User response:** Reserve at least one digit in the integral part of the decimal types.

# CCN3553 Only decimal types can be used with the &1 operator.

**Explanation:** The operand of the digits of or precision of operator is not valid. The digits of and precision of operators can only be applied to decimal types.

In the message text:

&1 is an operator.

**User response:** Change the operand.

# CCN3554 Whole-number-part digits in the result may have been lost.

**Explanation:** Due to limitations on the number of digits representable, the calculated intermediate result may result in loss of digits in the integer portion after the operation is performed.

**User response:** Check to make sure that no significant digit is lost.

# CCN3555 Digits have been lost in the whole-number part.

**Explanation:** In performing the operation, some nonzero digits in the whole-number part of the result are lost.

**User response:** Check to make sure that no significant digit is lost.

# CCN3556 Digits may have been lost in the whole-number part.

**Explanation:** In performing the operation, some digits in the whole-number part of the result may have been lost

**User response:** Check to make sure that no significant digit is lost.

# CCN3557 The name in option &1 is not valid. The option is reset to &2.

**Explanation:** The name specified as a suboption of the option is syntactically or semantically incorrect and thus can not be used.

In the message text:

&1 and &2 are option names.

**User response:** Make sure that the suboption represents a valid name. For example, in option LOCALE(localename), the suboption "localename" must be a valid locale name which exists and can be used. If not, the LOCALE option is reset to NOLOCALE.

# CCN3558 pragma &1 is ignored because the locale compiler option is not specified.

**Explanation:** The LOCALE compiler option is required for pragma &1.

In the message text:

&1 is a pragma name.

**User response:** Remove all the pragma &1 directives or specify the locale compiler option.

# CCN3559 pragma filetag is ignored because the conversion table from &1 to &2 cannot be opened.

**Explanation:** During compilation, source code is converted from the code set specified by pragma filetag to the code set specified by the locale compiler option, if they are different. A conversion table form &1 to &2 must be loaded prior to the conversion. No conversion is done when the conversion table is not found.

In the message text:

&1 and &2 are code sets.

**User response:** Create the conversion table from &1 to &2 and ensure it is accessible from the compiler. If message files are used in the application to read and write data, a conversion table from &2 to &1 must also be created to convert data from the runtime locale to the compile time locale.

#### CCN3560

Error messages are not converted because the conversion table from &1 to &2 cannot be opened.

**Explanation:** Error messages issued by C/370 are written in code page 1047. These messages must be converted to the code set specified by the locale compiler option because they may contain variant characters, such as #. Before doing the conversion, a conversion table from &1 to &2 must be loaded. The error messages are not converted because the conversion table cannot be found.

In the message text:

&1 and &2 are code sets.

**User response:** Make sure the conversion table from &1 to &2 is accessible from the compiler.

#### CCN3561

No conversion on character &1 because it does not belong to the input code set &2.

**Explanation:** No conversion has been done for the character because it does not belong to the input code set.

In the message text:

&1 is a character, &2 is a code set.

**User response:** Remove or change the character to the appropriate character in the input code set.

#### CCN3562

Incomplete character or shift sequence was encountered during the conversion of the source line.

**Explanation:** Conversion stops because an incomplete character or shift sequence was encountered at the end of the source line.

**User response:** Remove or complete the incomplete character or shift sequence at the end of the source line.

### CCN3563

Only conversion tables that map single byte characters to single byte characters are supported.

**Explanation:** Compiler expected single byte to single byte character mapping during conversion. Conversion stops when there is insufficient space in the conversion buffer.

**User response:** Make sure the conversion table is in single byte to single byte mapping.

#### CCN3564

Invalid conversion descriptor was encountered during the conversion of the source line.

**Explanation:** No conversion was performed because conversion descriptor is not valid.

#### CCN3565 • CCN3575

**User response:** No response required.

CCN3565 pragma &1 must appear on the first directive before any C code.

**Explanation:** The specified pragma must be the first directive before any C code.

In the message text:

&1 pragma type \*CHAR 100

**User response:** Put this pragma as the first directive before any C code.

CCN3566 Option DECK ignored because option OBJECT specified.

**Explanation:** The second option must not be specified for the first to have an effect.

**User response:** Remove the first or second option.

CCN3567 Option OFFSET ignored because option LIST not specified.

**Explanation:** The second option must be specified for the first to have an effect.

**User response:** Specify the second option, or remove the first.

CCN3568 The external name &1 in pragma csect conflicts with another csect name.

**Explanation:** A pragma csect was specified with a name which has already been specified as a csect name.

In the message text:

&1 is an identifier.

**User response:** Ensure that the two csect names are unique.

CCN3569 A duplicate pragma csect(&1) is ignored.

**Explanation:** Only one pragma csect may be specified for either CODE or STATIC.

In the message text:

&1 is the list of arguments used.

**User response:** Remove the duplicate pragma csect.

CCN3570 The pragma map name &1 must not conflict with a pragma essect name or the essect name generated by the compiler.

**Explanation:** The external name used in the pragma map is identical to the external name specified by the pragma csect or the name generated by the compiler.

In the message text:

&1 is an identifier.

**User response:** Change the name of the pragma csect or turn off the CSECT option.

CCN3571 The external name &1 must not conflict with the name in pragma exect or the

with the name in pragma csect or the csect name generated by the compiler.

**Explanation:** The external name specified is identical to the name specified by a pragma csect or the name generated by the CSECT option.

In the message text:

&1 is an identifier.

**User response:** Change the name of the pragma csect or turn off the CSECT option.

CCN3572 Expected text &1 was not encountered on option &2.

**Explanation:** Missing text &1 for option &2.

In the message text:

&1 is text, &2 is an option name.

**User response:** Use the correct syntax for specifying the option

CCN3573 To use the built-in form of the &1 function add the #include <&2> directive.

**Explanation:** Include the header file &2 to use the &1 built-in function.

In the message text:

&1 is a function name, &2 is a header file name.

**User response:** Add the specified #include in order to optimize code.

CCN3574 Unable to open event file &1.

**Explanation:** The compiler was unable to open the event file.

In the message text:

&1 is a file name.

**User response:** Ensure that there is enough disk space.

CCN3575 Csect option is ignored due to naming

**Explanation:** The compiler was unable to generate valid esect names.

**User response:** Use pragma csect to name the code and static control sections.

### CCN3576 Csect name &1 has been truncated to &2

**Explanation:** The static, data and test esect names have been truncated to 8 characters.

In the message text:

&1 and &2 are csect names.

**User response:** Use the GOFF or LONGNAME option.

# CCN3578 The csect name &1 must not conflict with a csect name generated by the compiler.

**Explanation:** The code and static csect names are identical. Either the compiler is unable to generate unique names or a pragma csect is using a duplicate name.

In the message text:

&1 is a csect name.

**User response:** Use pragma csect to name the code and static control sections.

# CCN3585 Obsolete option HWOPTS defaults to corresponding ARCHITECTURE option.

**Explanation:** HWOPTS is no longer supported and has been replaced by ARCHITECTURE.

**User response:** Use the ARCHITECTURE option to take advantage of hardware.

### CCN3586 Test csect name &1 has been truncated to &2.

**Explanation:** The compiler generated test csect name has been truncated to 8 characters.

In the message text:

&1 and &2 are csect names.

**User response:** Use the CSECT() option to allow test csect names longer than 8 chars.

## CCN3600 3600 - 3631 are Language Environment messages.

**Explanation:** Refer to the Language Environment manuals for further information about these messages

**User response:** Refer to the Language Environment manuals for the appropriate user response.

# CCN3610 "&1" is not allowed as an array element type.

**Explanation:** The type &1 can not be used as an array element type.

In the message text:

&1 is a type.

**User response:** Use a different array element type.

# CCN3671 The header file name in the #include directive cannot be empty.

**Explanation:** The #include directive must specify a header file.

**User response:** Specify a non-empty header file name in the #include directive.

# CCN3675 The return type is not valid for a function of this linkage type.

**Explanation:** The function definition violates the restriction on the return type for the specified linkage.

**User response:** Check the linkage type restrictions and change the return type.

## CCN3676 Function "&1" which returns a return code cannot be defined.

**Explanation:** This function has been defined with a FORTRAN linkage type and the RETURNCODE option. A FORTRAN function should be defined in a FORTRAN source file and only referenced in this compilation unit.

In the message text:

&1 is a function or type name.

**User response:** Either remove the FORTRAN linkage or move the FORTRAN function definition into a FORTRAN source file.

# CCN3677 Option LONGNAME is turned on because option DLL is specified.

**Explanation:** Option LONGNAME is turned on by the compiler because DLL option is specified.

**User response:** Specify the LONGNAME option when compiling with the DLL option.

# CCN3678 Option RENT is turned on because option DLL is specified.

**Explanation:** Option RENT is turned on by the compiler because DLL option is specified.

**User response:** Specify the RENT option when compiling with the DLL option.

# CCN3679 Option LONGNAME is turned on because option EXPORTALL is specified.

**Explanation:** Option LONGNAME is turned on by the compiler because EXPORTALL option is specified.

User response: Specify the LONGNAME option when

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compiling with the EXPORTALL option.

CCN3680 Option RENT is turned on because option EXPORTALL is specified.

**Explanation:** Option RENT is turned on by the compiler because EXPORTALL option is specified.

**User response:** Specify the RENT option when compiling with the EXPORTALL option.

CCN3681 pragma export(&1) is ignored; both LONGNAME and RENT options must be specified.

**Explanation:** The variable/function is not exported because both LONGNAME and RENT must be specified to export functions/variables.

In the message text:

&1 is a function or variable name.

**User response:** Make sure both the LONGNAME and RENT options are specified.

CCN3682 "&1" will not be exported because pragma variable(&2,NORENT) is specified.

**Explanation:** Variables with NORENT option cannot be exported.

In the message text:

&1 and &2 are identifiers.

**User response:** Remove the pragma variable directive.

CCN3683 "&1" will not be exported because it does not have external storage class.

**Explanation:** Only objects with external storage class can be exported.

In the message text:

&1 is an identifier.

**User response:** Change the storage class for &1 to extern.

CCN3684 Exporting function main is not allowed.

**Explanation:** Main cannot be exported.

**User response:** Remove the pragma export for main.

CCN3685 "&1" will not be exported because it is not externally defined.

**Explanation:** The variable cannot be exported because it is not defined here.

In the message text:

&1 is an identifier.

**User response:** Remove the pragma export for the variable.

CCN3686 Unexpected keyword(s). One or more keywords were found in an invalid location.

**Explanation:** One or more keywords were found in an invalid location.

**User response:** Remove the keyword(s) or place them immediately to the left of the identifier to which they apply.

CCN3687 The &1 keyword cannot be applied to the return type of a function.

**Explanation:** The keyword is being applied to the return type of a function.

In the message text:

&1 is a keyword.

**User response:** Remove the keyword.

CCN3688 Declaration cannot specify conflicting keywords &1 and &2.

**Explanation:** The keywords conflict and cannot both be used in the same declaration.

In the message text:

&1 and &2 are keywords.

**User response:** Remove one of the keywords.

CCN3689 The &1 keyword was specified more than once in the declaration.

**Explanation:** The keyword was used more than once in the same declaration.

In the message text:

&1 is a keyword.

**User response:** Remove the duplicate keywords.

CCN3690 Built-in function &1 is unrecognized.

The default linkage convention is used.

**Explanation:** The function specified in the pragma linkage builtin is not a built-in function.

In the message text:

&1 is a function name.

**User response:** Check the function name and correct; or remove the pragma if it is not a built-in function.

CCN3691 The &1 keyword can only be applied to functions.

**Explanation:** The keyword has been applied to an identifier which does not correspond to a function type.

In the message text:

&1 is a keyword.

**User response:** Check that the correct identifier is specified or remove the keyword.

CCN3693 The &1 keyword conflicts with a previously specified keyword.

**Explanation:** The keyword conflicts with another keyword specified in the same declaration.

In the message text:

&1 is a keyword.

**User response:** Remove one of the keywords.

CCN3694 Option LONGNAME is turned on because a qualifier is specified on the CSECT option.

**Explanation:** Option LONGNAME is turned on by the compiler when the CSECT option is specified with a qualifier.

**User response:** Specify the LONGNAME option when compiling with the CSECT option with a qualifier specified.

CCN3695 pragma export(&1) is ignored; LONGNAME option must be specified.

**Explanation:** The variable/function is not exported because LONGNAME must be specified to export functions/variables.

In the message text:

&1 is a function or variable name.

**User response:** Make sure the LONGNAME option is specified.

CCN3708 Only functions or typedefs of functions can be specified on pragma linkage directive.

**Explanation:** The name specified on pragma linkage is not a function.

**User response:** Check for typo errors; remove the pragma linkage.

CCN3709 Structure members cannot follow zero-sized array.

**Explanation:** The zero-sized array must be the last member in the structure.

**User response:** Remove members that occur after the zero-sized array.

CCN3710 Option &1 is ignored because option &2 is specified.

**Explanation:** The second option must not be specified for the first to have an effect.

In the message text:

&1 and &2 are option names.

**User response:** Remove the first or second option.

CCN3712 Duplicate function specifier "&1" is ignored.

**Explanation:** The indicated function specifier appears more than once.

In the message text:

&1 is a function specifier.

**User response:** Remove one of the duplicate function specifiers.

CCN3713 Keyword "&1" is not allowed in this context.

**Explanation:** The specified keyword cannot be used in this context.

In the message text:

&1 is a keyword.

**User response:** Remove the keyword.

CCN3714 #include searching for file &1.

**Explanation:** This is a compiler informational message used to show #include file searching.

In the message text:

&1 is a file name.

**User response:** No response required.

CCN3715 Storage class &1 cannot be used for structure members.

**Explanation:** The storage class is not appropriate for this declaration. Restrictions include: 1) Storage class specifier is not allowed on aggregate members, casts, sizeof or offsetof declarations. 2) Declarations at file scope cannot have "register" or "auto" storage class.

In the message text:

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&1 is a storage class specifier.

**User response:** Remove the storage class specifier.

CCN3721 The "&1" qualifier is not supported on the target platform.

**Explanation:** The specified qualifier is not supported on the target platform and will have no effect.

In the message text:

&1 is a qualifier.

User response: Remove the qualifier.

### CCN3722 pragma linkage &1 ignored for function &-2

**Explanation:** A conflicting linkage type has been specified for this function.

In the message text:

&1 is a linkage type, &2 is a function name.

**User response:** Check what has been specified before and remove the conflicts.

# CCN3723 pragma environment is ignored because function &1 already has linkage type &2.

**Explanation:** A pragma linkage has already been specified and used for this function, and is in conflict with the pragma environment directive. The latter is ignored.

In the message text:

&1 is a function name, &2 is a linkage type.

**User response:** Remove the pragma linkage or environment directive.

# CCN3724 Undefined identifier "&1" was referenced in pragma &2 directive.

**Explanation:** A pragma is referring to an identifier that has not been defined.

In the message text:

&1 is an identifier name, &2 is the name of the pragma.

**User response:** Define the identifier or remove the pragma.

# CCN3728 Operation between types "&1" and "&2" is not recommended.

**Explanation:** The operation specified is improper between the operands having the given types.

In the message text:

&1 and &2 are types.

**User response:** Either change the operator or the operands.

### CCN3729 "&1" should not be declared inline or static.

**Explanation:** Although "&1" is not a keyword, it is a special function that cannot be inlined or declared as static

In the message text:

&1 is a function name.

**User response:** Remove the inline or static specifier from the declaration of "&1".

# CCN3730 The pragma is accepted by the compiler. The pragma will have no effect.

**Explanation:** The pragma is not supported by this compiler.

**User response:** The pragma can be removed.

# CCN3731 The &1 keyword is not supported on the target platform. The keyword is ignored.

**Explanation:** The specified keyword is not supported on the target platform and will have no effect.

In the message text:

&1 is a keyword.

**User response:** Remove the keyword.

# CCN3732 pragma &1 is not supported on the target platform.

**Explanation:** The specified pragma is not supported on the target platform and will have no effect. See the C/C++ Language Reference for the list of valid pragma directives.

In the message text:

&1 is a pragma name.

**User response:** Change or remove the pragma directive.

### CCN3733 Processing #include file &1.

**Explanation:** This message traces #include file processing.

In the message text:

&1 is a file name.

**User response:** No response required.

CCN3735

Suboption &1 of option &2 is ignored because option &3 is specified.

**Explanation:** Suboption &1 of &2 cannot be specified with option &3. &1 is ignored.

In the message text:

&1 is a suboption, &2 and &3 are option names.

**User response:** Remove the suboption &1 or the option &3.

CCN3736

&1 conflicts with previous &2 declaration.

**Explanation:** The compiler cannot resolve the conflicting declarations.

In the message text:

&1 and &2 are function specifiers.

**User response:** Remove one of the declarations.

CCN3737

The preprocessor macro "&1" was expanded inside a pragma directive.

**Explanation:** A macro was expanded in the context of a pragma directive. Please ensure that this is the result that you want.

In the message text:

&1 is a preprocessor macro.

**User response:** Ensure that the macro was intended for expansion.

CCN3742

64-bit portability: possible loss of digits through conversion of &1 type into &2 type.

**Explanation:** A long type is assigned to an int type, which may cause truncation in 64-bit mode.

In the message text:

&1 and &2 are types.

**User response:** Check the possible value ranges of the long type or change the assignment from an int type to a long type.

CCN3743

64-bit portability: possible change of result through conversion of &1 type into &2 type.

**Explanation:** An int type is assigned to a long type, which may cause unexpected results in 64-bit mode.

In the message text:

&1 and &2 are types.

**User response:** Check if a possible sign extension of int type into long type causes unexpected results.

CCN3744

64-bit portability: possible truncation of pointer through conversion of pointer type into &1 type.

**Explanation:** A pointer type is assigned to an integer type, which may lead to an invalid address in 64-bit mode.

In the message text:

&1 is a type.

**User response:** Use a long type to hold a pointer type.

CCN3745

64-bit portability: possible incorrect pointer through conversion of &1 type into pointer.

**Explanation:** An integer type is assigned to a pointer type, which may lead to an invalid address in 64-bit mode.

In the message text:

&1 is a type.

**User response:** Use a long type to hold the address.

CCN3746

64-bit portability: possible change of constant value through conversion into long type.

**Explanation:** A constant is assigned into long type leading to possible change of value in 64-bit mode.

**User response:** Check the possible value ranges of the constant when stored in a long type.

CCN3747

64-bit portability: constant given type "&1" when compiling in 32-bit mode may be given type "&2" when compiling in 64-bit mode.

**Explanation:** A constant which is given type unsigned long int in 32-bit mode may fit into a long int in 64-bit mode. A constant which is given type long long int in 32-bit mode may fit into a long int in 64-bit mode. A constant which is given type unsigned long long int in 32-bit mode may fit into an unsigned long int in 64-bit mode.

In the message text:

&1 and &2 are types.

**User response:** Check the use of the constant for possible changes in usual arithmetic conversion rules as it propagates through expressions.

CCN3748

64-bit portability: constant which will overflow in 32-bit mode may select unsigned long int or long int in 64-bit mode

Explanation: A constant larger than UINT\_MAX but

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smaller than ULONGLONG\_MAX will overflow in 32-bit mode, but be acceptable in an unsigned long or signed long in 64-bit mode.

**User response:** Make sure you intend this constant to be acceptable in 64-bit mode.

### CCN3752 Number of enumerator constants exceeds &1.

**Explanation:** The number of enumerator constants must not exceed the value of &1.

In the message text:

&1 is an integer.

**User response:** Remove additional enum constants.

# CCN3754 The parameter type is not valid for a function of this linkage type.

**Explanation:** The linkage type of the function puts certain restrictions on the parameter type, which the function definition violated.

**User response:** Check the linkage type restrictions and change the parameter type.

### CCN3755 The &1 option is not supported in this release.

**Explanation:** The specified option is not supported in this release.

In the message text:

&1 is an option name.

User response: Remove the option.

# CCN3763 Option &1 is ignored because pragma &2 is specified.

**Explanation:** The pragma must not be specified for the option to have an effect.

In the message text:

&1 is an option name, &2 is a pragma name.

**User response:** Remove the pragma or the option.

# CCN3764 Option &1 is ignored for variable &2 because pragma &3 is specified.

**Explanation:** The pragma must not be specified for the option for the variable indicated to have an effect.

In the message text:

&1 is an option name, &2 is an identifier, &3 is a pragma name.

**User response:** Remove the pragma or the option for the variable indicated.

## CCN3765 &1 digits are required for the universal character name "&2".

**Explanation:** Universal character names must follow the format \UNNNNNNN or \uNNNN, where N is a hexadecimal digit.

In the message text:

&1 is an integer and &2 is a universal character name.

**User response:** Either pad or truncate the digits used for the universal character name.

# CCN3766 The universal character name "&1" is not in the allowable range for an identifier.

**Explanation:** Hexadecimal values representing characters in the basic character set (base source code set) and the code points reserved by ISO/IEC 10646 for control characters are not allowed. The following characters are also disallowed: (1) Any character that has a short identifier that is less than 00A0. The exceptions are 0024 (\$), 0040 (@), or 0060 (`). (2) Any character that has a short identifier that is in the code point range D800 through DFFF inclusive.

In the message text:

&1 is a universal character name.

**User response:** Change the universal character name to an allowable one.

#### CCN3767 Packed decimal constant &1 is not valid.

**Explanation:** See the C/C++ Language Reference for a description of a packed decimal constant.

In the message text:

&1 is a numeric value.

**User response:** Ensure that the packed decimal constant does not contain any characters that are not valid.

### CCN3776 The required conditions for using the built-in function "&1" are not met.

**Explanation:** The built-in function "&1" requires one or more compiler options that are not currently active.

In the message text:

&1 is a function name.

**User response:** Specify the correct options to use the built-in function.

CCN3777

The parameter in position &1 must be a constant literal for the built-in function

**Explanation:** The built-in function "&2" requires parameter &1 to be a constant literal.

In the message text:

&1 is an integer, &2 is a function name.

**User response:** Specify a constant literal for the parameter.

CCN3778

Type "&1" is not valid. Type specifier "&2" is assumed.

**Explanation:** The type "&1" is not valid; it is treated as "&2".

In the message text:

&1 is a type, &2 is a type specifier.

**User response:** Replace the unknown type specifier with a correct one.

CCN3779

Definition of modifiable static variable "&1" is not allowed within inline definition of "&2".

**Explanation:** An inline definition of function "&2" with external linkage shall not contain a definition of modifiable object "&1" with static storage duration. The static keyword is ignored.

In the message text:

&1 is an identifier, &2 is a function name.

**User response:** Remove the static storage class specifier.

CCN3780

Reference to "&1" with internal linkage is not allowed within inline definition of "&2".

**Explanation:** An inline definition of function "&2" with external linkage shall not contain a reference to an identifier "&1" with internal linkage.

In the message text:

&1 is an identifier, &2 is a function name.

**User response:** Remove the reference to the identifier with internal linkage.

### CCN3781 Inline function "&1" is undefined.

**Explanation:** An inline function was declared and referenced in this file. The definition of the function was not found before the end of the file. When a function is declared to be inline, the function definition must appear in the same file.

In the message text:

&1 is a function name.

**User response:** Define the function in the file or remove the inline function specifier.

CCN3782

One or more error messages have been disabled.

**Explanation:** One or more error messages have been suppressed via user's request.

**User response:** Fix the errors to proceed with the compilation.

CCN3784

Decimal integer constant "&1" is out of range.

**Explanation:** The specified decimal constant is too large to be represented by a signed long long int.

In the message text:

&1 is an integer constant.

CCN3785

Illegal suffix "&1" for integer constant "&2".

**Explanation:** Valid integer suffixes for a long long integer constant are ll or LL. Valid integer suffixes for an unsigned long long integer constant are ull, uLL, Ull. or ULL.

In the message text:

&1 is a suffix, &2 is an integer constant.

**User response:** Change or remove the suffix.

CCN3787

Hexadecimal floating-point constant "&1" cannot be represented exactly in its evaluated format.

**Explanation:** Due to limits on the number of significant digits, the hexadecimal floating-point constant is rounded.

In the message text:

&1 is a hexadecimal floating-point constant.

**User response:** Change the hexadecimal floating-point constant so that it fits in the evaluation format.

CCN3789

The operand of \_\_alignof\_\_ cannot be a bit field.

**Explanation:** The \_\_alignof\_\_ operator cannot be applied to an lvalue that designates a bit field object.

**User response:** Change the operand.

### CCN3805 • CCN3913

CCN3805 String literal exceeded the compiler limit of &1.

**Explanation:** String literal size cannot be larger than the compiler limit

In the message text:

&1 is an integer.

**User response:** Reduce the size of the string literal.

### CCN3810 pragma runopts syntax (&1): &2

**Explanation:** Syntax error in the pragma. The suboption syntax is the same as the corresponding Language Environment runtime option. Please refer to the Language Environment manual for details on the CEEnnnn message number.

In the message text:

&1 and &2 are error messages.

**User response:** Correct the syntax error.

## CCN3811 Option &1 forces option &2 to take effect.

**Explanation:** The first option in the message forces the second one to take effect. Specify the second option explicitly to suppress this message.

In the message text:

&1 and &2 are option names.

**User response:** Specify the second option explicitly.

# CCN3812 Option FLOAT(IEEE) may cause slow execution time when used with ARCH less than 3.

**Explanation:** Binary floating-point operations (BFP) needs hardware architecture (ARCH option) of 3 or higher. For ARCH less than 3, BFP will work on OS level V2R6 or higher, which provides software emulation, but will significantly slow down the execution time.

**User response:** If the target hardware architecture is 3 or higher, specify it explicitly in ARCH.

# CCN3813 Option FLOAT(AFP) may cause slow execution time when used with ARCH less than 3.

**Explanation:** The AFP suboption needs hardware architecture (ARCH option) of 3 or higher. For ARCH less than 3, BFP will work on OS level V2R6 or higher, which provides software emulation, but will significantly slow down the execution time.

**User response:** If the target hardware architecture is 3 or higher, specify it explicitly in ARCH.

# CCN3815 Conflicting qualifiers &1 and &2 specified.

**Explanation:** The identified qualifiers cannot both be specified at the same time.

In the message text:

&1 and &2 are qualifiers.

**User response:** Remove one of the qualifiers.

## CCN3870 The program name &1 has been truncated to &2.

**Explanation:** The program name exceeds the maximum length of 10 characters and has been truncated. This may result in unexpected behavior if two different names become the same name after truncation.

In the message text:

&1 and &2 are program names.

**User response:** Reduce the length of the program name. Alternatively, use pragma map to shorten the program name.

# CCN3885 An anonymous union or struct declared at file scope must be static.

**Explanation:** Anonymous unions and structs are not allowed at global scope if they are not static.

**User response:** Declare all anonymous tags to be static at file scope.

### CCN3894 The &1 is not valid in 64-bit mode and it is ignored.

**Explanation:** The &1 is not valid in 64-bit mode. It is only supported in 32-bit mode.

In the message text:

&1 is an option or pragma name.

**User response:** Either remove &1 or compile it in 32-bit mode.

## CCN3897 Unstructured goto statement encountered.

**Explanation:** The target label of a goto statement should not be located in an inner block such as a loop.

**User response:** Ensure the target label of the goto statement is not located in an inner block.

# CCN3913 The enum constants must be specified when the enum tag is declared.

**Explanation:** When an enumeration tag is declared, the list of the enumeration constants must be included in the declaration.

**User response:** Add the list of enumeration constants in the enum tag declaration.

# CCN3914 Code page (CCSID) &1 specified on pragma convert directive is not valid.

**Explanation:** The CCSID &1 specified on the pragma convert directive is either not supported by the system or an error occurred while the compiler was trying to access code page information.

In the message text:

&1 is a CCSID number.

**User response:** Use a valid code page (CCSID).

### CCN3919 Variable &1 was not explicitly initialized.

**Explanation:** If not explicitly initialized, variables with storage class auto or register contain indeterminate values.

In the message text:

&1 is an identifier.

**User response:** Initialize the variable.

# CCN3920 Bitwise operator is applied to a signed type.

**Explanation:** Bitwise operators may change the value of a signed type by shifting the bit used to indicate the sign of the value.

**User response:** Change the operand to an unsigned type or remove the bitwise operation.

### CCN3931 Dependency file &1 cannot be opened.

**Explanation:** Makedepend could not open the specified dependency file.

In the message text:

&1 is a file name.

**User response:** Ensure the source file name is correct. Ensure that the correct file is being read and has not been corrupted. If the file is located on a LAN drive, ensure the LAN is working properly. Also, the file may be locked by another process or access may be denied because of insufficient permission

# CCN3932 Too few options specified for makedepend.

**Explanation:** Makedepend has been supplied with too few command line options to continue. Please consult the ``z/OS UNIX System Services Command Reference" for usage information.

**User response:** Specify correct number of options for makedepend.

### CCN3933 Specify at least one source operand to be processed.

**Explanation:** No source files were specified for

makedepend processing.

**User response:** Specify at least one source operand.

# CCN3934 Compiler option &1 is invalid for compiler version &2.

**Explanation:** An invalid option was specified for the compiler version specified for makedepend.

In the message text:

&1 is a compiler option, &2 is compiler version.

**User response:** Change the compiler version to the version that accepts this option, or remove this option.

# CCN3935 Specify a valid -W phase code (0 or c=compile, m=makedepend) instead of &-1.

**Explanation:** An invalid compiler phase was specified for makedepend.

In the message text:

&1 is a phase code.

**User response:** Specify a phase that is accepted by makedepend.

# CCN3936 Specify a series of options, separated by commas, for the -W m option.

**Explanation:** No options were specified for the -W m option.

**User response:** Remove the -W m option.

# CCN3937 &1 has a dependency on include file &2 which is located in an MVS data set.

**Explanation:** The specified #include file was found in an MVS data set. No dependency information will be recorded for this #include file.

In the message text:

&1 is an object file. &2 is a #include file.

**User response:** No response required.

# CCN3938 Unknown compiler version &1 for makedepend option V. Using default compiler version.

**Explanation:** An invalid compiler version was specified for the makedepend option V.

In the message text:

&1 is a compiler version.

### CCN3941 • CCN3952

**User response:** Correct the compiler version.

CCN3941 Applying &1 may cause unexpected run-time behavior.

**Explanation:** Compile may be successful but it may cause unexpected run-time behavior.

In the message text:

&1 is an option or pragma.

**User response:** Change or remove the offending option or pragma.

CCN3942 Attribute "&1" causes a conflict and is ignored.

**Explanation:** The identified attribute is in conflict with a previously specified attribute or pragma and is ignored.

In the message text:

&1 is an attribute name.

**User response:** Change or remove the conflicting attribute specifier.

CCN3943 Attribute "&1" is not supported on the target platform and is ignored.

**Explanation:** The identified attribute specifier is not supported on the target platform and is ignored.

In the message text:

&1 is an attribute name.

**User response:** Remove the attribute specifier.

CCN3944 Attribute "&1" is not supported and is ignored.

**Explanation:** The identified attribute is not supported and is ignored.

In the message text:

&1 is an attribute name.

User response: Remove the attribute specifier.

CCN3945 The number of arguments specified for attribute "&1" is incorrect; this attribute is ignored.

**Explanation:** The number of arguments specified for the identified attribute is incorrect.

In the message text:

&1 is an attribute name.

**User response:** Check the syntax rules for the specified attribute, and correct the arguments.

CCN3946 Incorrect argument type specified for attribute "&1"; this attribute is ignored.

**Explanation:** The argument specified for the identified attribute has the wrong data type.

In the message text:

&1 is an attribute name.

**User response:** Check the syntax rules for the specified attribute, and correct the argument.

CCN3947 The explicit register specifier is unexpected and is ignored.

**Explanation:** An explicit register cannot be specified on this type of declaration.

User response: Remove the explicit register specifier.

CCN3949 A header name is expected in the #include\_next directive.

**Explanation:** No header file name is provided after the #include\_next directive.

**User response:** Specify the header file name. Enclose the system header names in angle brackets and the user header names in double quotation marks.

CCN3950 The #include\_next file &1 is not found.

**Explanation:** The file specified in the #include\_next directive cannot be found. See the documentation for the file search order.

In the message text:

&1 is a file name.

**User response:** Ensure that the file exists. Change the name of the included file to one that exists or use the include path option to specify the path to the file.

CCN3951 The header file name in the #include\_next directive is empty.

**Explanation:** The header file name in the #include\_next directive should not be empty.

**User response:** Specify a non-empty header file name in the #include\_next directive.

CCN3952 An #include\_next header must end before the end of the source line.

**Explanation:** An #include\_next directive was specified across two or more lines.

**User response:** Change the #include\_next directive so that it and its arguments are contained on a single line.

CCN3953 No path to find #include\_next file.

Explanation: There is no search path to find the

#include\_next file.

**User response:** Ensure the search path is correct.

CCN3954 An #include\_next directive is found in a primary source file.

**Explanation:** The #include\_next directive should only be used in header files.

**User response:** Change the #include\_next to an #include.

CCN3955 Type "int" is assumed for declaration of

**Explanation:** A declaration was made without a type specifier.

In the message text:

&1 is an identifier.

**User response:** Add the type specifier into the declaration.

CCN3963 The attribute "&1" is not a valid variable attribute and is ignored.

**Explanation:** The identified attribute specifier is ignored because it does not apply to variables.

In the message text:

&1 is an attribute name.

**User response:** Remove the attribute specifier.

CCN3970 Incorrect \_Pragma operator.

**Explanation:** Error in \_Pragma operator.

User response: Correct the syntax in the \_Pragma

Operator.

CCN3971 Invalid standard pragma.

**Explanation:** Error(s) in a standard pragma.

User response: Correct the error in the standard

pragma.

CCN3973 pragma FP\_CONTRACT OFF overrides option FLOAT(MAF).

**Explanation:** When the pragma is turned off anywhere in the program, the option FLOAT(NOMAF) will be set for the entire compilation unit and override option FLOAT(MAF), if it has been specified on the command line.

**User response:** Remove the command line option FLOAT(MAF) or remove the pragma.

CCN3974 Attribute "&1" has been specified more than once; the last specification is used.

**Explanation:** The identified attribute was specified more than once; the last specification is used.

In the message text:

&1 is an attribute name.

User response: Remove the duplicate attribute

specifier.

CCN3976 Alias specification cannot be provided for a function definition.

**Explanation:** An alias specification is not allowed within a function definition.

**User response:** Remove the alias specification or change the function definition into a function declaration.

CCN3987 The invalid character "&1" was found in a wide character or wide string literal.

The character will be ignored.

**Explanation:** The wide character is not valid. The character is displayed as one or more hexadecimal byte values.

In the message text:

&1 is a character.

**User response:** Correct the literal.

CCN3990 The maximum size of the stack has been exceeded.

**Explanation:** The size of the stack has reached its maximum size, no more entries may be added.

**User response:** Remove some entries from the stack.

CCN3991 Only a variable can be declared in the declaration part of a "for" statement.

**Explanation:** A tag, a function declaration, or a typedef definition is not allowed in the declaration part of a "for" statement.

**User response:** Correct the declaration part of the for statement.

CCN3992 Storage class "&1" cannot be used in this context.

**Explanation:** Only variables having storage class "register" or "auto" can be declared in the declaration part of a "for" statement.

In the message text:

&1 is a storage class specifier.

### CCN3994 • CCN4106

**User response:** Delete the storage class specifier or use a different storage class specifier.

### CCN3994 A flexible array member is not allowed.

**Explanation:** A flexible array member is permitted as the last member of a structure containing more than one named member. Unions cannot contain flexible array members.

**User response:** Correct the usage of the flexible array member.

#### CCN3995

An aggregate containing a flexible array member cannot be used as a member of a structure or as an array element.

**Explanation:** A flexible array member is permitted as the last member of a structure containing more than one named member. Such a structure cannot be a member of another structure or an array element, although it can be a member of a union and such a union cannot be a member of a structure or an array element.

**User response:** Remove the aggregate containing the flexible array member.

### CCN3996 Definition of tag "&1" is not allowed.

**Explanation:** A tag cannot be defined in the declaration part of a "for" statement.

In the message text:

&1 is a tag.

**User response:** Move the declaration tag so that it is before the "for" statement.

### CCN3997

Structure members cannot follow a flexible array member/zero extent array.

**Explanation:** The flexible array member/zero extent array must be the last member in the structure.

**User response:** Move the flexible array member/zero extent array to the end of the structure.

#### CCN3998

A different section was specified for "&1"; the new specification is used.

**Explanation:** The new section specification overwrites the previous one.

In the message text:

&1 is an identifier.

**User response:** Remove the previous specification of attribute "section".

#### CCN4100

A &1 attribute that is not applied to a global or static variable is ignored.

**Explanation:** The section attribute is not supported for automatic variables, parameters, or variables with external linkage.

In the message text:

&1 is an attribute name.

**User response:** Remove the section attribute specifier.

#### CCN4102

Hexadecimal floating-point constants are not supported in the current language level.

**Explanation:** A hexadecimal floating-point constant is not allowed in the current language level.

**User response:** Change the language level to one that supports the hexadecimal floating-point constant notation, or use the decimal floating-point notation instead.

#### CCN4103

\_\_VA\_ARGS\_\_ can only be used in the replacement list of a function-like macro with a variable argument list.

**Explanation:** The identifier \_\_VA\_ARGS\_\_ can only occur in the replacement list part of a C99 function-like macro that uses the ellipsis notation in the parameter list.

**User response:** Remove the \_\_VA\_ARGS\_\_ identifier.

#### CCN4104

The static keyword or type qualifiers are ignored unless they are in the outermost array index of a function parameter.

**Explanation:** The array index contains the static keyword or type qualifiers. When the static keyword or type qualifiers are used to specify the dimension of an array, they can only be used for the declaration of function parameters and only in the outermost array dimension.

**User response:** Remove the static keyword or type qualifiers.

### **CCN4106**

Initializer does not evaluate to a constant that fits in the target type.

**Explanation:** The expression used as an initializer evaluates to a number that is not within the range that can be stored by the target.

**User response:** Change the expression so it evaluates to a value in the valid range.

### CCN4107

Initialization of function pointer "&1" with a function that has "&2" linkage is not allowed.

**Explanation:** An attempt was made to initialize a function pointer with the address of a function that has incompatible linkage.

In the message text:

&1 is an identifier, &2 is a linkage.

**User response:** Ensure the function pointer is initialized with the address of a function that has compatible linkage.

## CCN4108 The use of keyword &1 is non-portable.

**Explanation:** The specified keyword may cause problems when porting the code to another system.

In the message text:

&1 is a keyword.

**User response:** Change the language level to one that supports the specified keyword or remove the use of the specified keyword.

## CCN4118 Character constant &1 has more than 1 character.

**Explanation:** A character constant can only have up to four bytes.

In the message text:

&1 is a character constant.

**User response:** Change the character constant to contain four bytes or less.

## CCN4119 The initializer list should not be empty.

**Explanation:** An initializer list should contain at least one initializer.

**User response:** Remove the empty initializer list or add an initializer to the list.

## CCN4124 The use of directive &1 is non-portable.

**Explanation:** The specified directive may cause problems when porting the code to another system.

In the message text:

&1 is a directive.

**User response:** Remove the use of the specified directive.

## CCN4125 Option &1 forces &2 to take effect due to &3.

**Explanation:** The first option in the message forces the second one to take effect due to the third option.

In the message text:

&1, &2 and &3 are option names.

**User response:** Specify the second option explicitly to suppress this message.

## CCN4136 Statement expressions are not supported in the current language level.

**Explanation:** A statement expression is not allowed in the current language level.

**User response:** Change the language level to one that supports statement expressions.

# CCN4137 Only one &1 pragma may be specified for the same loop. This pragma is ignored.

**Explanation:** Only the pragma immediately preceding a loop will have effect.

In the message text:

&1 is a pragma name.

**User response:** Specify only one pragma for a loop. Remove any multiple pragmas.

## CCN4140 The &1 pragma cannot be applied to a &2 loop. This pragma is ignored.

**Explanation:** Only specific unrolling optimizations are appropriate for certain loops.

In the message text:

&1 is a pragma name, &2 is a type of loop (i.e. "for", "do while" or "while").

**User response:** Apply a different unrolling pragma to the loop, or remove the pragma.

## CCN4141 The total number of operands exceeds &1.

**Explanation:** The maximum number of asm operands has been exceeded.

In the message text:

&1 is an integer.

**User response:** Reduce the number of operands in the asm instruction.

## CCN4142 • CCN4231

### CCN4142 The named operand "&1" is not defined.

**Explanation:** The operand name specifier does not refer to an operand.

In the message text:

&1 is an identifier.

**User response:** Change the name specifier of the intended operand.

## CCN4143 The operand number is out of range.

**Explanation:** The operand number specified does not refer to an operand.

**User response:** Change the operand number to the intended operand.

## CCN4145 "&1" is not the first character of the output constraint.

**Explanation:** "=" or "+" is not the first character of the constraint for an output operand.

In the message text:

&1 is a character.

**User response:** Make "=" or "+" the first character of the constraint for output operands.

## CCN4146 The asm constraint "&1" cannot be used for this operand type.

**Explanation:** The asm operand constraint is not valid for the provided operand.

In the message text:

&1 is an asm constraint.

**User response:** Remove the constraint or modify the operand to a compatible type.

## CCN4147 The asm constraint "&1" is not supported.

**Explanation:** The asm operand constraint is not recognized.

In the message text:

&1 is an asm constraint.

**User response:** Remove the constraint.

# CCN4148 The symbolic name "&1" used in a %[name] operand specifier is a duplicate. You must use a unique name.

**Explanation:** An operand name specifier has been used more than once.

In the message text:

&1 is a symbolic name.

**User response:** Select a different operand name specifier for one of the operands.

## CCN4149 The register name "&1" is unknown.

**Explanation:** The register name in the clobber set of the asm statement is not recognized. The clobbered register information is ignored.

In the message text:

&1 is a register name.

**User response:** Correct the name of the clobbered register.

## CCN4197 The use of &1 in designated initializer syntax is non-portable.

**Explanation:** The use of the specified token in a designated initializer is obsolete and non-portable. To maximize code portability, use the standard conforming syntax for a designated initializer.

In the message text:

&1 is a token, for example ':'.

**User response:** Use the standard conforming syntax for a designated initializer.

## CCN4198 Missing &1 in designated initializer syntax.

**Explanation:** The designated initializer syntax used is obsolete and non-portable. To maximize code portability, use the standard conforming syntax for a designated initializer.

In the message text:

&1 is a token, for example ':'.

**User response:** Use the standard conforming syntax for a designated initializer.

## CCN4230 The built-in function "&1" is not valid for the target system.

**Explanation:** The built-in function is not valid for the target operating system.

In the message text:

&1 is a function name.

**User response:** User cannot use this built-in in the current operating system.

## CCN4231 The built-in function "&1" is not valid for the target architecture.

**Explanation:** The built-in function is not valid for the target hardware architecture.

In the message text:

&1 is a function name.

**User response:** User cannot use this built-in in the target architecture.

## CCN4232 The built-in function "&1" requires option "&2".

**Explanation:** The built-in function is not valid with the current compilation options.

In the message text:

&1 is a function name, &2 is an option name.

**User response:** In order to use the built-in, the user has to specify the required option.

# CCN4233 The parameter in position &1 must be a power of 2 and must be a constant literal for the built-in function "&2".

**Explanation:** The built-in function requires the argument be a power of 2 and a constant literal.

In the message text:

&1 is a number, &2 is a function name.

**User response:** In order to use the built-in, the argument must be a power of 2 and a constant literal.

## CCN4234 The argument &2 of the built-in function "&1" must be in the range &3.

**Explanation:** The built-in function requires the argument be in the range.

In the message text:

&1 is a function name, &2 is a number, &3 is a range.

**User response:** Modify the argument's value to meet the range requirement.

## CCN4250 Too many registers are required in the asm statement.

**Explanation:** The asm statement cannot be compiled because it requires too many registers.

**User response:** Reduce the complexity of the asm statement.

## CCN4252 Output operand is not specified with = or + constraint. = is assumed.

**Explanation:** An output operand must be specified with an "=" or "+".

**User response:** Add an "=" or "+" to the constraint set for all output operands.

# CCN4253 GCC asm statement is used. This feature is not standard conforming and is not portable.

**Explanation:** asm feature can not be used in a strictly conforming language level.

**User response:** Remove the asm statements.

## CCN4254 Wide string literals (L, U or u) of different types cannot be concatenated.

**Explanation:** A string that is prefixed by L, U or u can only be concatenated with one that is similarly prefixed, or with a normal string literal.

**User response:** Check the string literal prefix and correct the syntax.

# CCN4255 Source file encoding cannot be converted to Unicode using iconv. The UTF option is ignored.

**Explanation:** The compiler converts string literals that are prefixed by U or u to Unicode using iconv. The required UTF-8 converter is not found on the system.

**User response:** Check that the source file encoding can be converted to UTF-8 by iconv.

## CCN4256 Specify the UTF option to process string literals prefixed by u or U.

**Explanation:** The compiler encountered a syntax error possibly caused by string literals prefixed by u or U. The UTF option is needed to process these string literals.

**User response:** Check if the program is using string literals prefixed by u or U.

## CCN4258 The matching constraint cannot be used in the output operand.

**Explanation:** The matching constraint can only appear in the input operands.

**User response:** Remove the matching constraint from the output operand.

## CCN4259 The matching constraint cannot reference the input operand.

**Explanation:** The matching constraint can only refer to an output operand.

**User response:** Modify the matching constraint.

CCN4260 The asm operand does not match the specified constraint.

**Explanation:** The constraint and the expression of the operand must be consistent.

**User response:** Modify the constraint or the expression of the operand to make them consistent.

CCN4263 The matching constraint '&1' has been used more than once.

**Explanation:** One output operand can only be referenced by the matching constraint once.

In the message text:

&1 is an asm matching constraint.

**User response:** Modify the matching constraint.

CCN4266 This designation of a range of array elements is non-portable.

**Explanation:** The designator used to initialize a range of array elements is a non-portable extension. To maximize code portability, use the standard conforming syntax for designating array elements.

**User response:** Use the standard conforming syntax to designate array elements.

CCN4270 Option &1 is ignored when option &2 is specified.

**Explanation:** The option &1 is not valid when used in conjunction with &2.

In the message text:

&1 and &2 are option names.

User response: Remove option &2.

CCN4271 Subption &1 of option &2 is ignored because option &3 is not specified.

**Explanation:** The suboption &1 is only valid when used in conjunction with &3.

In the message text:

&1 is a suboption, &2 and &3 are option names.

**User response:** Compile with &3.

CCN4278 Duplicate or overlapping range expression specified for case label. Labels must be unique.

**Explanation:** Two case label ranges in the same switch statement cannot overlap.

**User response:** Change one of the label ranges.

CCN4279 The &1 pragma cannot be applied to a #pragma block\_loop.

**Explanation:** Only other block\_loop pragmas or loopid pragmas can be applied to a #pragma block loop.

In the message text:

&1 is a pragma name.

**User response:** Remove the erroneous loop pragma directive.

CCN4298 The subscript &1 is out of range. The valid range is 0 to &2.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

&1 and &2 are integers.

**User response:** Change the index so it falls within the bounds of the array or increase the size of the array. This message is usually generated when the user tries to index the array with the size of the array and forgets to substract one.

CCN4299 The subscript &1 is out of range. The only valid subscript is 0.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

&1 is an integer.

**User response:** Change the index so it falls within the bounds of the array or increase the size of the array. This message is usually generated when the user tries to index the array with the size of the array and forgets to subtract one.

CCN4300 The subscript &1 is less than zero. The subscript of an array should be greater than or equal to zero.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

&1 is an integer.

**User response:** Change the index so it falls within the bounds of the array.

CCN4301 The subscript &1 may be out of range. The known range is 0 to &2.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

&1 and &2 are integers.

**User response:** Change the index so it falls within the bounds of the array or increase the size of the array.

## CCN4302 The subscript &1 may be out of range. The only known subscript is 0.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

&1 is an integer.

**User response:** Change the index so it falls within the bounds of the array or increase the size of the array.

## CCN4307 Skipping a declaration with variably modified type at line &1 is invalid.

**Explanation:** A goto statement shall not jump from outside the scope of an identifier having a variably modified type to inside the scope of that identifier.

In the message text:

&1 is a line number.

**User response:** Change the program so that the goto statement is inside the scope of the identifier having a variably modified type.

## CCN4308 Operand of unary ++ or -- operator must be a real or pointer type.

**Explanation:** The operand of the unary ++ or -- operator should have a real type or pointer type.

**User response:** Change the type of the operand, or use a different operand.

### CCN4312

pragma noinline conflicts with the inline function specifier for function "&1". The pragma is ignored.

**Explanation:** pragma noinline is specified with a function name, which has an inline function specifier.

In the message text:

&1 is a function name.

**User response:** Remove either pragma noinline or the inline function specifier.

# CCN4319 The string literal specified may not exceed &1 characters. The pragma is ignored.

**Explanation:** The length of the string literal exceeds a limit, so the pragma is ignored.

In the message text:

&1 is an integer.

**User response:** Reduce the length of the string literal.

## CCN4320 A flexible array member is not supported in the current language level.

**Explanation:** A flexible array member as the last member of a structure containing more than one named member is not allowed in the current language level.

**User response:** Change the language level to one that supports flexible array members.

## CCN4324 Array size must have integer type.

**Explanation:** When the size of an array is an expression, it must have integer type.

**User response:** Change the array size expression to an integer type.

## CCN4334 &1 value must contain only decimal digits or only '\*'.

**Explanation:** A non-numerical and non-asterisk character was encountered in the &1 value.

In the message text:

&1 is a pragma name, for example 'sequence' or 'margins'.

**User response:** Check the syntax of the value given.

## CCN4339 The specified register name '&1' is not valid.

**Explanation:** The named specified for the asm register is not a valid register on the target architecture.

In the message text:

&1 is the name of an invalid register.

**User response:** Use a valid register name.

## CCN4340 Register variable &1 cannot be initialized.

**Explanation:** A register variable cannot be initialized since a register does not occupy storage in the object.

In the message text:

&1 is an identifier.

User response: Remove the initializer.

## CCN4343 Register '&1' is already used for variable &2.

**Explanation:** The register has already been reserved for another variable. A register cannot be reserved for multiple variables.

In the message text:

### CCN4344 • CCN4367

&1 is a register name. &2 is an identifier.

**User response:** Use a unique register name for each register variable.

### CCN4344

Register variable &1 already reserves register '&2'. This asm specification is ignored.

**Explanation:** A register variable cannot reserve more than one register.

In the message text:

&1 is an identifier. &2 is a register name.

**User response:** Remove one of the register names specified for the variable.

### CCN4345

The data type '&1' of variable &2 is not suitable for a register.

**Explanation:** A register specification is used for a variable with a data type that cannot be held in a register.

In the message text:

&1 is a data type. &2 is an identifier.

**User response:** Remove the register specification for the variable.

## CCN4347

The register variable specification is non-portable.

**Explanation:** Using the register variable specification may cause problems when porting the code to another system.

**User response:** Remove the use of the register variable specification.

## CCN4349

Decimal floating-point constant "&1" is out of range.

**Explanation:** The compiler detected a decimal floating-point overflow or underflow while scanning a constant or performing constant arithmetic folding.

In the message text:

&1 is a decimal floating-point constant.

**User response:** Change the decimal floating-point constant so that it fits in the evaluation format or use a format with higher precision and range. See the XL C/C++ Language Reference for details on the valid format.

## CCN4350

Decimal floating-point constant "&1" cannot be represented exactly in its evaluated format.

Explanation: Due to limits on the number of

significant digits, the decimal floating-point constant is rounded.

In the message text:

&1 is a decimal floating-point constant.

**User response:** Change the decimal floating-point constant so that it fits in the evaluation format or use a format with higher precision. See the XL C/C++ Language Reference for details on the valid format.

## CCN4351

Decimal floating-point constant "&1" is not valid

**Explanation:** See the XL C/C++ Language Reference for a description of a decimal floating-point constant.

In the message text:

&1 is the text in the source program which the compiler tries to parse as a decimal floating-point constant.

**User response:** Ensure that the decimal floating-point constant does not contain any characters that are not valid.

### CCN4359

Host variable &1 is a pointer with unknown length.

**Explanation:** The size of the memory area pointed to by the host variable cannot be determined.

In the message text:

&1 is a variable name.

**User response:** Correct the host variable definition by using the bounded pointer definition described in the DB2 Application Programming and SQL Guide.

### **CCN4366**

Identifier "&1" with static storage duration was referenced in pragma &2 directive.

**Explanation:** A pragma is referring to an identifier that has static storage duration.

In the message text:

&1 is an identifier name, &2 is the name of the pragma.

**User response:** Remove the static storage class specifier in the identifier declaration or remove the pragma.

### CCN4367

Only one operand can be defined in the asm statement.

**Explanation:** The asm statement is used to define the assembly data. Defining more that one operand in an asm statement is not allowed.

**User response:** Write the asm statement to define one operand.

CCN4368

The constraint '&1' cannot be used on the operand that has the "XL" constraint.

**Explanation:** The operand that has the constraint "XL" cannot have any other constraint.

In the message text:

&1 is the constraint.

**User response:** Remove all the constraints except "XL" and its parameter for the operand that is defined in the asm statement.

### CCN4369

Only the output operand can be defined in the asm statement.

**Explanation:** The asm statement is used to define the assembly data. The defined operand cannot be listed in the input operand list.

**User response:** Move the operand that is defined in the asm statement to the output operand list.

### CCN4370

The specified data size &1 is not valid. The default value &2 is assumed.

**Explanation:** Only a positive integer number can be used to specify the data size.

In the message text:

&1 is the data size. &2 is the default data size, currently 256.

**User response:** Specify the data size with an integer that is greater than 0.

### CCN4371

The inline asm statement is only supported when the option GENASM is specified. The asm statement is ignored.

**Explanation:** The inline asm statement is only supported when the option GENASM is specified.

**User response:** Specify the option GENASM in order to use the inline asm statement.

### CCN4372

No valid constraint is specified for the operand. The constraint '&1' is assumed.

**Explanation:** At least one valid constraint needs to be specified for the operand.

In the message text:

&1 is the constraint.

**User response:** Specify a valid constraint.

## CCN4379

The specified register name '&1' is not a valid general purpose register name.

can be used.

Explanation: Only a general purpose register name

In the message text:

&1 is the register name.

**User response:** Specify a valid general purpose register name.

## CCN4380

There is no matching #pragma extension for "pop" argument in the same file. The pragma will be ignored.

**Explanation:** An attempt has been made to apply #pragma extension (pop) without a matching pragma extension in the same file.

**User response:** Remove the pragma.

### CCN4381

There is a #pragma extension without a matching #pragma extension (pop) in the same file. The "pop" has been inserted by the compiler at the end of the file.

**Explanation:** A #pragma extension should always have a matching #pragma extension (pop).

**User response:** Insert a #pragma extension (pop) to match the #pragma extension.

### CCN4382

pragma &1 ignored due to pragma &2.

**Explanation:** The pragma &1 cannot be embedded in code under pragma &2.

In the message text:

&1 and &2 are pragma names.

**User response:** Move pragma &1 out of the pragma &2 section or remove pragma &1.

### CCN4383

The register "&1" specified for the variable "&2" is ignored. The compiler requires the GENASM option to parse this syntax.

**Explanation:** The register variable is only supported when the option GENASM is specified.

In the message text:

&1 is the register name. &2 is the variable name.

**User response:** Specify the option GENASM in order to use the register variable.

### CCN4384

pragma &1 must be specified at file scope. The pragma is ignored.

**Explanation:** The pragma directive is ignored because it has been specified at an invalid scope.

In the message text:

&1 is the name of the pragma.

## CCN4391 • CCN4405

**User response:** Move the pragma directive to file scope.

### CCN4391

A different common/nocommon was specified for "&1"; the new specification is used.

**Explanation:** The new common/nocommon specification overwrites the previous one.

In the message text:

&1 is an identifier.

**User response:** Remove the previous specification of attribute "common" or "nocommon".

## CCN4392 An asm statement used in global scope can only define data.

**Explanation:** Only an asm statement that is used to define data can appear in global scope.

**User response:** Remove the asm statement in the global scope.

## CCN4396 The attribute "&1" is only supported with "&2".

**Explanation:** "&2" must be specified to support the attribute "&1".

In the message text:

&1 is an attribute name. &2 is an option.

**User response:** Remove the attribute specifier or specify the "&2" option.

### CCN4397

The AMODE for "&1" differs from the amode attribute specified on line "&2" of "&3".

**Explanation:** The AMODE for this function is not compatible with the amode attribute specified for the same function.

In the message text:

&1 is an identifier, &2 is a line number, and &3 is a file name.

**User response:** Remove the amode attribute specifier or change the compiler option to either LP64 or ILP32 to yield the same AMODE.

## CCN4398

Using a NULL pointer constant in a relational operator with a \_\_far pointer may not yield the correct result.

**Explanation:** A NULL pointer has no ordering with other pointers and therefore should not be used in a relational operator.

**User response:** If you want to test a pointer for NULL, use the equality operators, == or !=.

### CCN4399

The \_\_far pointer dereferencing operations can only be used under ARMODE. The operation is ignored.

**Explanation:** The \_\_far pointer operation requires access to addional data space. This access can only be provided by ARMODE. You can use either the ARMODE option or a function attribute to set ARMODE.

**User response:** Remove the \_\_far pointer operation or specify ARMODE, either on the command line or by using function attributes.

### CCN4402

The type "&1" is not supported on the target architecture.

**Explanation:** The target architecture does not natively support machine instructions for the specified type.

In the message text:

"&1" is a type.

**User response:** Remove the reference to the type.

## CCN4403

The aggregate cannot have a variable-sized member.

**Explanation:** The aggregate must have a constant size. A variable-sized member is not permitted as a member of an aggregate.

**User response:** Remove the variable-sized member from the aggregate.

## CCN4404

The "&1" option must be specified with the "&2" compiler option(s).

**Explanation:** Given option(s) "&2", the compiler is enabling option "&1".

In the message text:

"&1" and "&2" are the names of compiler options.

**User response:** Specify option "&1".

## CCN4405

The parameter in position &1 of the built-in function "&2" must hold an even value.

**Explanation:** The parameter specified for the built-in function can not be an odd constant literal.

In the message text:

&1 is a number and &2 is a function name.

**User response:** Modify the argument's value to an even value.

**CCN4406** 

The parameter in position &1 of the built-in function "&2" must hold an odd value

**Explanation:** The parameter specified for the built-in function can not be an even constant literal.

In the message text:

&1 is a number and &2 is a function name.

**User response:** Modify the argument's value to an odd value.

## CCN4407

The pragma &1 must appear in function scope. The pragma is ignored.

**Explanation:** The pragma can not appear outside function scope.

In the message text:

&1 is a pragma name.

**User response:** Place the pragma directive within a function scope or remove it.

### **CCN4408**

Variable &1 in &2 is not a function argument.

**Explanation:** The specified variable identifier must be a parameter of the enclosing function.

In the message text:

&1 is an identifier and &2 is a pragma name.

**User response:** Use a variable that is a function parameter.

### CCN4409

Type of variable &1 in pragma &2 is not supported in this release.

**Explanation:** Type of the specified variable is not supported for this pragma.

In the message text:

&1 is a variable name and &2 is a pragma name.

**User response:** Use a variable that has a type which is supported by this pragma.

## CCN4410

Argument &1 of &2 must be a compile-time constant.

**Explanation:** The specified argument must be a compile-time constant.

In the message text:

&1 is a argument number and &2 is a pragma name.

**User response:** Use a compile-time constant.

### CCN4413

pragma &1 must appear before all explicit declarations and statements inside a function body.

**Explanation:** This pragma must appear after the opening brace of function definition but before any explicit declaration or statement.

In the message text:

&1 is a pragma name.

**User response:** Move the pragma inside the function body so that it appears before any explicit declaration or statement.

### CCN4414

The modifier '&1' cannot be used on the last operand.

**Explanation:** The modifier '&1' can be used on any operand other than the last one.

In the message text:

&1 is the modifier in the asm statement.

**User response:** Remove the modifier '&1' from the last operand.

### CCN4417

Initialization between types "&1" and "&2" is not allowed due to linkage mismatch.

**Explanation:** An attempt was made to initialize a variable with incompatible linkage.

In the message text:

&1 and &2 are both type names.

**User response:** Ensure types are compatible and have compatible linkage.

## CCN4419

Pragma &1 must appear in global scope.

**Explanation:** This pragma can not be used in function or block scope.

In the message text:

&1 is a pragma name.

**User response:** Move the pragma statement to global scope.

## CCN4425

The option "&1" only has an effect when preprocessed output is generated. The option is ignored.

**Explanation:** The specified option is ignored because it only has an effect when preprocessed output is generated.

In the message text:

"&1" is the ignored option.

**User response:** Specify an option configuration that

generates preprocessed output.

CCN4426

The "&1" qualifier cannot be applied to the variable "&2" because the variable does not have external linkage.

**Explanation:** The specified qualifier requires that the variable has external linkage and not be defined within this compilation unit.

In the message text:

"&1" is a qualifier name. "&2" is a variable name.

**User response:** Remove the qualifier, or ensure the variable has external linkage and is not defined within this compilation unit.

CCN4427

"&1" cannot be applied to the function or function pointer.

**Explanation:** "&1" is invalid for function or function pointers.

In the message text:

"&1" can be a qualifier, type specifier, or attribute.

**User response:** Do not specify "&1" for function or function pointer.

CCN4428

Operation between types "&1" and "&2" is not allowed due to linkage mismatch.

**Explanation:** The operation specified is not valid between the operands having the given linkages.

In the message text:

&1 and &2 are both type names.

User response: Ensure types have compatible linkage.

CCN4430

Compiling with the SQL compiler option resulted in the following message: &1

Explanation: A general SQL related compiler message.

In the message text:

&1 is the SQL for DB2 Coprocessor message text.

**User response:** Refer to the SQL Reference.

CCN4431

Compiling a CICS command resulted in the following message: &1

**Explanation:** A message from the CICS translator for the CICS command.

In the message text:

&1 is the CICS Translator message text.

**User response:** Refer to the CICS Transaction Server for zOS Application Programming Reference.

CCN4436

The linkage "&1" for function "&2" is invalid in &3 mode.

**Explanation:** The linkage "&1" is not supported in &3 mode. The behaviour is undefined.

**User response:** Specify a valid &3 mode linkage for the function.

CCN4437

The linkage "&1" is invalid when function "&2" is defined.

**Explanation:** The linkage specified is not a supported linkage for a defined C function. The behaviour is undefined.

**User response:** Specify a valid linkage for a C function.

CCN4438

Error when loading the SQL coprocessor. SQL coprocessor Return Code: &1.

**Explanation:** The SQL coprocessor could not be loaded by the compiler.

In the message text:

&1 is the return code from the SQL coprocessor.

**User response:** Ensure that the SQL coprocessor resides in your STEPLIB. Refer to the DB2 for zOS Application Programming and SQL Guide

CCN4439

Unable to initilaize SQL coprocessor services. SQL coprocessor Return Code: &1.

**Explanation:** The SQL coprocessor could not be initialized.

In the message text:

&1 is the return code from the SQL coprocessor.

**User response:** Refer to the DB2 for zOS Application Programming and SQL Guide.

CCN4440

Host variable not found after SQL statement 'USING DESCRIPTOR'.

**Explanation:** A host variable is required ater the SQL statement 'USING DESCRIPTOR'.

**User response:** Specify a valid host variable prefaced with a colon character. Refer to the DB2 for zOS Application Programming and SQL Guide.

CCN4441

The SQL coprocessor cannot compile the SQL statement. SQL coprocessor Return Code: &1.

**Explanation:** The SQL coprocessor failed to compile the SQL statement.

In the message text:

&1 is the return code from the SQL coprocessor.

**User response:** Refer to the DB2 for zOS Application Programming and SQL Guide.

## CCN4442 The SQL TYPE "&1" is not recognized by the compiler.

**Explanation:** The SQL TYPE specified is not supported or recognized by the compiler.

In the message text:

&1 is the type code for the SQL TYPE specified.

**User response:** Ensure that the version of the DB2 Coprocessor is supported by the compiler.

## CCN4443 The compiler failed to terminate the

SQL coprocessor. SQL coprocessor Return Code: &1

**Explanation:** The SQL coprocessor cannot be terminated.

In the message text:

&1 is the return code from the SQL coprocessor.

**User response:** Ensure that the SQL coprocessor is still available on your system.

## CCN4444 Cannot retrieve a message from the SQL

coprocessor. SQL coprocessor Return Code: &1

**Explanation:** The compiler cannot retrieve a message from the SQL coprocessor.

In the message text:

&1 is the return code from the SQL coprocessor.

**User response:** Refer to the DB2 for zOS Application Programming and SQL Guide.

# CCN4445 The variable "&1" cannot be added as a host variable. SQL coprocessor Return Code: &2.

**Explanation:** The variable "&1" will not be recognized as a host variable by the SQL coprocessor.

In the message text:

&1 is a variable name. &2 is a return code from the SQL coprocessor.

**User response:** Refer to the DB2 for zOS Application Programming and SQL Guide for valid host variables.

## CCN4446 The variable "&1" cannot be found as a host variable.

**Explanation:** The variable "&1" is not recognized as a host variable by the SQL coprocessor.

In the message text:

&1 is a variable name.

**User response:** Refer to the DB2 for zOS Application Programming and SQL Guide for valid host variables.

## CCN4447 Unable to process the SQL statement.

**Explanation:** The SQL Coprocessor did not compile the SQL statement.

**User response:** Refer to the DB2 for zOS Application Programming and SQL Guide for valid SQL statements.

## CCN4448 Static storage duration is assumed for non-file scope compound literals.

**Explanation:** In general, an object in non-file scope should have automatic storage duration.

**User response:** Use initialize list instead of compound literal.

## CCN4453 The asm constraint "&1" cannot be used for the output operand.

**Explanation:** The asm operand constraint is not valid for the output operand.

In the message text:

&1 is the letter in the constraint set that is incompatible with the output operand.

**User response:** Remove the the constraint or change it to a compatible constraint for the output operand.

## CCN4454 Operand must be an Ivalue.

**Explanation:** An Ivalue is an expression that has address.

**User response:** Change the operand.

## CCN4456 The component notation "%1\$s" has an invalid number of components.

**Explanation:** The number of components must result in a scalar or vector type.

**User response:** Change the number of components.

## CCN4457 The component notation "%1\$s" is invalid.

**Explanation:** The number of components must consist of letters "xyzw" or numeric indices "0123456789abcdef".

### CCN4458 • CCN4501

**User response:** Change the component notation.

**CCN4458** The component notation "%1\$s" exceeds

the "%2\$s" elements of the vector

**Explanation:** The component specified cannot exceed

the maximum number of vector elements.

**User response:** Do not access elements beyond the total element number of the vector.

CCN4459 Cannot assign to an object in the "%1\$s" address space.

**Explanation:** The assignment is not allowed.

In the message text:

argument 1 is one of \_\_constant, \_\_global, \_\_local, or \_\_private

**User response:** Remove the assignment, or change the address space.

**CCN4460** Pointer parameters for \_\_kernel functions cannot point to objects in the

\_\_private address space.

**Explanation:** This function cannot have parameters that point to objects in the \_\_private address space.

**User response:** remove the \_\_private qualifier, or the \_\_kernel function specifier.

**CCN4461** Parameters to functions with the function specifier "%1\$s" must be

"%2\$s" qualified.

**Explanation:** Parameters to this kind of function must have the specific qualifier.

**User response:** add the missing qualifier to the function parameter declaration.

CCN4474

Attribute malloc was specified on function "%1\$s" which does not have a pointer return type; the attribute is ignored.

Explanation: Attribute malloc is valid only on functions that have a pointer return type.

In the message text:

"%1\$s" is the function name.

User response: Remove the attribute or modify the function return type.

CCN4475 The attribute "&1" is not specified on function "&2" consistently.

**Explanation:** Once the attribute "&1" is specified on a function, it is required for the same function in the same compilation unit.

In the message text:

"&1" is an attribute name, "&2" is a function name.

User response: Add or remove the attribute "&1" to "&2", so the attribute "&1" is consistent on "&2".

CCN4478 Nested functions are not supported.

Explanation: Defining a function inside another function is not allowed.

**User response:** Move the nested function outside the enclosing function and modify it to be inline or external instead.

CCN4483 "&1" should not be declared \_Noreturn.

Explanation: Although "&1" is not a keyword, it is a special function that cannot be declared with the specifier \_Noreturn.

In the message text:

&1 is a function name.

**User response:** Remove the \_Noreturn specifier from the declaration of "&1".

CCN4485 pragma &1 is ignored because it was already specified for this loop.

**Explanation:** The pragma reported in the message can not be specified more than onece for the same loop.

In the message text:

&1 is a pragma name.

User response: Specify this pragma only once for the same loop.

CCN4500

A struct or union type specifier applied to an unnamed member of a struct or union should not be tagged.

**Explanation:** A struct or union should not have an unnamed member with a tagged struct or union type specifier.

**User response:** Remove the tag.

CCN4501 There might be performance loss if "&1" has the "&2" visibility and is specified by "&3".

**Explanation:** There might be performance loss if any of the functions that are marked as imported resolve to statically bound objects.

In the message text:

&1 is the symbol name, &2 is one of the protected/hidden/internal visibility attribute, and &3 is the option name.

**User response:** The generated code might be larger and run more slowly than the default code sequence generated for the functions.

CCN4502 The attribute "&1" is ignored.

**Explanation:** The attribute "&1" is for external linkage. The attribute is ignored.

**User response:** Remove the attribute specifier.

CCN4503 The attribute "&1" is re-declared with a different value.

**Explanation:** The attribute "&1" is re-declared with a different value.

**User response:** Remove the attribute specifier.

CCN4504 The type name "&1" in the generic association cannot be an incomplete type or variably modified type.

**Explanation:** The type of the generic association must be a complete type other than a variably modified type.

**User response:** Change the type name of the generic association.

CCN4505 Duplicate generic association with type "&1" is ignored.

**Explanation:** Duplicate generic association type specified.

**User response:** Change the type of the generic association.

CCN4506 Generic selection cannot contain more than one default generic association.

**Explanation:** Multiple default generic associations specified.

**User response:** Remove the extra generic associations.

CCN4507 Unable to find generic association of type "&1".

**Explanation:** The controlling expression shall have a type compatible with one of the generic associations.

**User response:** Change the controlling expression.

CCN4508 &1 is not compatible with &2. &3 is being set.

**Explanation:** The option is not compatible with another option so it is reset.

In the message text:

&1, &2 and &3 are option names.

**User response:** Remove one of the options.

CCN4509 The type of the controlling expression is also compatible with type "&1".

**Explanation:** The controlling expression can have type compatible with at most one of the types in the generic association list.

**User response:** Change the type of the generic association.

CCN4512 An atomic transaction or a body of a transaction\_safe function cannot contain calls to unsafe statements or transaction\_unsafe functions.

**Explanation:** An atomic transaction or a body of a function declared with the transaction\_safe attribute must not contain calls to transaction\_unsafe functions and other unsafe statements.

**User response:** Remove the unsafe statement or function.

CCN4513 A function type must not be both transaction-safe and transaction-unsafe.

**Explanation:** A function declaration, function pointer declaration, or typedef declaration for function pointer type must not specify both the transaction\_safe and the transaction\_unsafe attributes.

**User response:** Remove one of the conflict attributes.

CCN4514 The statement &1 is not allowed to transfer control into a transaction statement.

**Explanation:** The statement &1 must not be used to change the control flow to a transaction statement.

**User response:** Remove the statement &1.

CCN4515 The function &1 declared with the attribute &2 is not consistent with the attribute in its prior declaration.

**Explanation:** The function &1 declared in a compilation unit must have the same transaction attribute &2 in all of other compilation units.

**User response:** Modify the function &1 transaction attribute &2.

### CCN4516

The conversion from transaction-unsafe function pointer &1 to transaction-safe function pointer &2 is not allowed.

**Explanation:** There is no conversion from transaction-unsafe function pointers to transaction-safe function pointers.

**User response:** Change one of the function pointers in the assignment to have the same type transaction attribute.

### CCN4517

The &1 option can prevent the &2 option from detecting the use of some variables before they are set.

**Explanation:** The option &1 initializes automatic variables, as a result, it will hide uninitialized variables to be detected from the option &2.

**User response:** Remove one of the options.

#### CCN4518 The &1 keyword is not supported.

**Explanation:** The specified keyword is not supported.

In the message text:

&1 is a keyword.

**User response:** Remove the keyword or specify appropriate compiler option.

### CCN4519

The debug option for assertion has no

**Explanation:** The option has no effect because the compiler was built without assertions.

**User response:** Remove -qdebug=assert from the command line or switch to the compiler with assertions.

### CCN4522

The value "&1" specified on pragma "&2" is not a valid architecture level. The pragma is ignored.

**Explanation:** A valid architecture level is required on this pragma.

In the message text:

"&1" is the architecture level. "&2" is the name of the pragma.

User response: Correct the architecture level or remove the pragma.

## CCN4523

The value "&1" specified on pragma "&2" is lower than the effective architecture value "&3". The pragma is ignored.

**Explanation:** The nested architecture level must be specified in the increasing order.

### In the message text:

"&1" is the invalid architecture level. "&2" is the name of the pragma. "&3" is the effective architecture level.

**User response:** Correct the architecture level by increasing its value or removing the pragma.

## CCN4524

The use of vector type is invalid for architecture level "&1".

**Explanation:** The effective architecture value specified on either #pragma arch\_section or a compiler option does not support vector.

In the message text:

"&1" is the architecture level specified on #pragma arch\_section or a target architecture option.

User response: Use architecture which supports vector processing, or remove the use of vector.

## CCN4525

The use of decimal floating-point is invalid for architecture level "&1".

**Explanation:** The effective architecture value specified on either #pragma arch\_section or a compiler option does not support decimal floating-point.

In the message text:

"&1" is the architecture level specified on #pragma arch\_section or a target architecture option.

**User response:** Use architecture value 7 and above, or remove the use of decimal floating-point.

## CCN4526

The argument "&1" of the built-in function "&2" is invalid.

**Explanation:** The built-in function accepts only one of the predefined strings. See the documentation for this built-in function for valid arguments.

In the message text:

"&1" is the argument passed to the built-in function, "&2" is the built-in function name.

User response: Change the argument to one of the predefined strings.

### CCN5001

A typedef must not have an initializer.

**Explanation:** A typedef represents a type, and a type must not have an initializer.

**User response:** Remove the initializer.

### CCN5002

A typedef must not be specified on a

Explanation: A typedef represents a type and must not be specified on a function definition.

**User response:** Remove the typedef keyword.

### CCN5003 A destructor must be a class member.

**Explanation:** A destructor is a special member function that cannot be declared outside a class declaration.

**User response:** Remove the destructor declaration or move it inside the class declaration.

## CCN5004 A conversion operator must be a class member.

**Explanation:** A conversion operator is a special member function that converts an object of the class type to an object of the conversion type.

**User response:** Move the conversion operator declaration inside the class from which you want to convert.

### CCN5005 "%1\$s" must have "C" linkage.

**Explanation:** The main function "%1\$s" cannot be specified with any linkage type other than extern "C".

In the message text:

"%1\$s" is the string representing the main function.

**User response:** Remove the linkage specification or change it to extern "C".

## CCN5006 The "%1\$s" specifier must not be specified for an explicit template

specified for an explicit template specialization.

**Explanation:** The "%1\$s" specifier is not correct on an explicit template specialization.

In the message text:

"%1\$s" is the invalid specifier.

**User response:** Remove the invalid specifier.

### CCN5007

The "%1\$s" specifier must not be specified for an explicit template instantiation.

**Explanation:** The "%1\$s" specifier is not correct on an explicit template instantiation.

In the message text:

"%1\$s" is the invalid specifier.

**User response:** Remove the invalid specifier.

### CCN5008 An initializer is not allowed here.

**Explanation:** A function declaration cannot have an initializer.

User response: Remove the initializer.

### CCN5009 A union must not have base classes.

Explanation: Only a struct or a class can have a base

class.

**User response:** Change the union to a class or struct.

## CCN5010 A name must not be used more than once within a template parameter list.

**Explanation:** Duplicated template parameter names are not allowed.

**User response:** Change the name of one of the template parameters.

## CCN5011 "%1\$s" is not a namespace.

**Explanation:** Only namespaces can be used in using directives, but the entity named is not a namespace.

In the message text:

"%1\$s" is the name used in the source.

**User response:** Remove the using directive or change the name to be that of a namespace.

## CCN5012 A using declaration for a member is allowed only in a class or struct.

**Explanation:** The using declaration is in a union, but using declarations are only allowed in classes and structs.

**User response:** Remove the using declaration.

## CCN5013 "%1\$s" is not a destructor.

**Explanation:** The name following the "~" must denote a destructor when it is used in a member list, but the name specified is not a destructor.

In the message text:

"%1\$s" is the name in error.

**User response:** Change the name to be a destructor.

## CCN5014 The literal type is unknown.

**Explanation:** The type of literal specified is not recognized.

recognized.

**User response:** Change the literal to a recognized type.

## CCN5015 A declaration that is "const" must have an initializer.

**Explanation:** The declaration has the const specifier so it must also have an initializer.

**User response:** Supply an initializer or remove the "const" specifier.

#### CCN5016 The expression must be an integral non-volatile constant expression.

**Explanation:** Only a constant expression can be used in this context, but a non-constant expression is specified.

User response: Change the non-constant expression to a constant expression.

#### CCN5017 A class or struct declaration must have a class name, a declarator, or both.

Explanation: Anonymous classes and structs are extensions to the language and may result in code that is not portable to other compilers.

User response: Name the class or add a declarator list.

#### CCN5018 An enumeration must not be a template.

Explanation: A template can only be a class, struct, or function.

User response: Remove the template keyword and template arguments, or nest the enumerator within a template.

#### CCN5019 A typedef declaration must not be a template.

**Explanation:** A template can only be a class, struct, or function.

User response: Remove the template keyword and template arguments, or nest the typedef within a template.

#### CCN5020 A bit field must not have a "%1\$s" specifier.

**Explanation:** A bit field should have integral or enumeration type, and it should not be static.

In the message text:

"%1\$s" is the specifier that is not valid for a bit field.

**User response:** Remove the incorrect specifier from the bit field or use an array rather than a bit field.

#### CCN5021 The named class is not defined.

**Explanation:** The class named in the elaboration is qualified but does not exist.

User response: Change the name to refer to a declared class.

#### CCN5022 The named class is not a class name.

**Explanation:** The name specified in the elaboration is not a class or struct.

**User response:** Change the name to be a class or struct, or remove the elaboration.

#### The named struct is not defined. CCN5023

**Explanation:** The struct named in the elaboration is qualified but does not exist.

**User response:** Change the name to refer to a declared struct.

#### CCN5024 Statements are not allowed within expressions.

**Explanation:** The extension of having statements within expressions is not allowed.

**User response:** Remove the construct or set the appropriate options to allow this extension.

#### CCN5025 The named union is not defined.

**Explanation:** The union named in the elaboration is qualified but does not exist.

**User response:** Change the name to refer to a declared union.

#### CCN5026 The named union is not a union name.

**Explanation:** The name specified in the elaboration is not a union.

**User response:** Change the name to be a union.

#### CCN5027 A function template must not be a qualifier.

Explanation: Qualifiers can only be namespaces or classes.

User response: Correct the qualifier name or remove

#### CCN5028 A qualified name is not allowed in the definition of "%1\$s".

Explanation: A name specified as a parameter, in a enumeration definition, or as an enumerator must not be a qualified name.

In the message text:

"%1\$s" is the name in error.

**User response:** Remove the qualifiers from the name.

### CCN5029 The named enumeration is not defined.

**Explanation:** Either the enumeration named in the elaboration is not defined or a forward declaration of an incorrect enumeration is being attempted.

**User response:** Change the name to be a defined enumeration or define the enumeration.

## CCN5030 The named enumeration is not an enumeration name.

**Explanation:** The name specified in the elaboration is not an enumeration.

**User response:** Change the name to be an enumeration.

## CCN5031 A function template must not be the class referred to by a pointer-to-member.

**Explanation:** Only classes can form pointer-to-members.

**User response:** Correct the class or remove the pointer-to-member.

### CCN5032 The destructor name is not valid.

**Explanation:** A destructor name cannot be a qualifier.

**User response:** Change the name to be a destructor.

## CCN5033 A typedef declaration must declare a

**Explanation:** A typedef declaration declares a type but no name is specified for the declaration.

**User response:** Add a name to the typedef declaration.

# CCN5034 The attributes are not attached to any type, function or variable. The attributes are ignored.

**Explanation:** Type attributes must immediately follow the class, struct, or union keyword.

**User response:** Remove the attributes or move them to immediately after the class, struct, or union keyword.

## CCN5035 A simple namespace name is expected.

**Explanation:** The name specified in a namespace declaration or a namespace alias cannot be qualified.

**User response:** Remove the qualifiers from the name.

## CCN5036 A namespace name is expected.

**Explanation:** The name specified in the namespace alias declaration must refer to a namespace.

**User response:** Change the name to be a namespace name.

## CCN5037 A qualified name is expected in a using declaration.

**Explanation:** An unqualified name has been specified in a using declaration. A using declaration must nominate a member of a namespace or class.

**User response:** Change the name to be a qualified name.

## CCN5038 The name "%1\$s" is not a type.

**Explanation:** The name is elaborated with "typename" but the name specified in the template instantiation is not a type.

In the message text:

"%1\$s" is the name in error.

**User response:** Change the name to refer to a type in the instantiation.

## CCN5039 A label must be a simple identifier.

**Explanation:** The label specified was a qualified name, but only unqualified names can be used for labels.

**User response:** Remove the qualifiers from the label.

## CCN5040 The text "%1\$s" is unexpected. "%2\$s" may be undeclared or ambiguous.

**Explanation:** There is a syntax error in the declaration. It may be that a name that is expected to be a type is unknown or ambiguous.

In the message text:

"%1\$s" is the symbol causing the syntax error. "%2\$s" is the name that may be causing the error if it is expected to be a type.

**User response:** Remove the offending symbol or ensure that the name used as a type name is actually a type.

## CCN5041 A pointer-to-member must not be specified because "%1\$s" is not a class.

**Explanation:** The final qualifier in a pointer-to-member must be a class.

In the message text:

"%1\$s" is the erroneous class type.

**User response:** Change the final qualifier to be a class.

CCN5042

The value given for init\_priority attribute must be a constant integral expression in the range between 101 and 65535. The attribute is ignored.

**Explanation:** The attribute is ignored because the argument is not a constant integral expression in the range between 101 and 65535.

**User response:** Change the argument to evaluate to the required range.

CCN5043

The explicit register specifier is unexpected. It is ignored.

Explanation: An explicit register cannot be specified in this type of declaration.

User response: Remove the explicit register specifier.

CCN5044

Only function declarations can have default arguments.

Explanation: A default initializer has been specified in the parameter list of a function but the function is not being declared.

**User response:** Remove the default initializers.

CCN5045

The attribute "%1\$s" has too many parameters. The attribute is ignored.

**Explanation:** The attribute is ignored because it has more comma-separated parameters specified than needed.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Remove offending parameters.

CCN5046

The attributes "%1\$s" must not be specified for a parameter.

**Explanation:** It is not valid to specify the attribute "%1\$s" for a function parameter or template parameter.

In the message text:

"%1\$s" is the invalid specifier.

**User response:** Remove the specifier.

CCN5047

A template class declaration or definition must have a class name.

Explanation: Anonymous class templates are not

allowed.

**User response:** Add a name.

CCN5048

The attribute "%1\$s" is not a valid function parameter attribute. The attribute is ignored.

**Explanation:** The attribute is ignored because it cannot be specified for function parameters.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Remove the offending attribute.

CCN5049

A template function must not be explicitly specialized as a class.

**Explanation:** A template function can only be specialized as a function.

User response: Correct the specialization or the template.

CCN5050

A default template-argument should not be specified in a friend template declaration.

**Explanation:** A friend declaration cannot introduce a new default argument for a template parameter.

User response: Remove the default template-argument.

CCN5051

A template parameter must be a simple identifier.

Explanation: A template parameter is a type parameter or a parameter declaration.

**User response:** Correct the template parameter name.

CCN5052

The text "%1\$s" is unexpected. The keyword "template" may need to prefix "%2\$s".

**Explanation:** There is a syntax error in the declaration. It may be that the name is intended to be used as a template but does not have a template keyword.

In the message text:

"%1\$s" is the symbol causing the syntax error. "%2\$s" is the name used as a template but is not known to be a template.

**User response:** Add the template keyword or ensure that the name used as a template is actually a template.

CCN5053

The declaration of a class member within the class definition must not be qualified.

**Explanation:** A class member that is declared in the member list of a class must not be a qualified name.

User response: Remove the qualifier.

CCN5054 A class or struct declaration must have a tag, a declarator, or both.

**Explanation:** Anonymous classes and structs are extensions to the language, and the option allowing them is turned off.

**User response:** Name the class, add a declarator list, or use the appropriate language level option to allow anonymous structs.

CCN5055 "%1\$s" is specified more than once.

**Explanation:** The specifier is used in the declaration more than once but the extra specifiers are ignored.

In the message text:

"%1\$s" is the extra specifier.

**User response:** Remove the extra specifiers.

CCN5056 Incorrect argument type specified for attribute "%1\$s". The attribute is ignored.

**Explanation:** The argument specified for the identified attribute has the wrong data type.

In the message text:

"%1\$s" is the attribute name.

**User response:** Check the syntax rules for the specified attribute, and correct the argument.

CCN5057 The declaration specifier is missing.

**Explanation:** Implicit int types are no longer valid in C++.

**User response:** Add a complete type to the declaration or use the appropriate language level option to allow implicit int types.

CCN5058 The declaration of a class member within the class definition must not be qualified.

**Explanation:** A class member that is declared in the member list of a class must not be a qualified name.

**User response:** Remove the qualifier.

CCN5059 The parameter of attribute "%1\$s" is missing. The attribute is ignored.

**Explanation:** The attribute "%1\$s" has specific parameter type.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Add the right parameter type to the attribute.

CCN5060 An internal parser error has occurred: "%1\$s".

**Explanation:** The parser has detected an

unrecoverable error.

In the message text:

"%1\$s" is a description of the error.

**User response:** Report the problem to your IBM C++ service representative.

CCN5061 This message is no longer used.

**Explanation:** This message is an internal error caught in the C++ front end.

**User response:** Report the problem to your IBM C++ service representative.

CCN5062 The incomplete class "%1\$s" must not be used as a qualifier.

**Explanation:** A class that is incomplete because it is only declared or because of some error in the declaration cannot be used as a qualifier.

In the message text:

"%1\$s" is the incomplete class.

**User response:** Define the class.

CCN5063 The text "%1\$s" is unexpected.

**Explanation:** A syntax error has occurred and the first unexpected token is "%1\$s".

In the message text:

"%1\$s" is the first invalid token.

**User response:** Change or remove the offending text.

CCN5064 Syntax error: "%1\$s" was expected but "%2\$s" was found.

**Explanation:** A syntax error has occurred and the first unexpected token is "%1\$s". The only valid token at this point is "%2\$s".

In the message text:

"%2\$s" is the invalid text. "%1\$s" is expected correct text.

**User response:** Change the incorrect token to the expected one.

CCN5065 The qualifier "%1\$s" is neither a class nor a namespace.

**Explanation:** Only names representing classes and namespaces can be used as qualifiers.

In the message text:

## CCN5066 • CCN5076

"%1\$s" is the invalid qualifier.

**User response:** Change the qualifier to a class name or namespace name.

CCN5066 A function must not be defined in this scope.

**Explanation:** Function definitions are only allowed in namespace scope or in a member list of a class.

**User response:** Move the definition into an appropriate scope.

CCN5067 A return type must not be specified for "%1\$s".

**Explanation:** Return types cannot be specified for conversion functions.

In the message text:

"%1\$s" is the function that cannot have a return type.

**User response:** Remove the return type.

CCN5068 No member except a constructor can have the same name as its class, struct, or union.

**Explanation:** An attempt was made to declare a member of a class that has the same name as the class itself.

**User response:** Change the name of the member.

CCN5069 The bit field length must be greater than, or equal to, zero.

**Explanation:** A bit field length must not be a negative number.

**User response:** Change the bit field length to zero or a positive number.

CCN5070 The friend class declaration must use the "%1\$s" keyword in the friend declaration of "%2\$s".

**Explanation:** The C++ language has changed. Now declarations of friend classes must contain an elaborated type specifier.

In the message text:

"%1\$s" is the expected elaboration. "%2\$s" is the offending text.

**User response:** Add the elaboration of class, struct, or union to the declaration.

CCN5071 A class or union must not be defined in this context.

**Explanation:** An attempt was made to define a class in a context where this is not valid.

**User response:** Move the definition to an appropriate context.

CCN5072 The attribute "%1\$s" is not supported on the target platform. The attribute is ignored.

**Explanation:** The identified attribute specifier is not supported on the target platform and it is ignored.

In the message text:

"%1\$s" is an attribute name.

**User response:** Remove the attribute specifier.

CCN5073 A template specialization must not be declared here.

**Explanation:** An explicit specialization can only be declared in namespace scope, either in the namespace in which the primary template is declared or, for a member template, in the namespace of which the enclosing class is declared.

**User response:** Remove the specialization or move it to a valid location.

CCN5074 The "%1\$s" specifier must not be specified for a friend.

**Explanation:** The "%1\$s" specifier is not correct on a friend declaration.

In the message text:

"%1\$s" is the invalid specifier.

User response: Remove the invalid specifier.

CCN5075 A static member function must not be virtual.

**Explanation:** The virtual specifier must not be used on a member function that is declared static.

**User response:** Remove the virtual or static specifier.

CCN5076 The pure-specifier (= 0) is not valid for a static member function.

**Explanation:** The pure-specifier must not be used on a member function that is declared static.

**User response:** Remove the pure-specifier or static specifier.

CCN5077 The array bound is too large.

**Explanation:** The specified array bound is too large

for the system to handle.

**User response:** Use a smaller array bound.

**CCN5078** A template must not be defined here.

Explanation: A template can only be defined at

namespace or class scope.

User response: Remove the template definition or

move it to a valid location.

CCN5079 The bit field length is too large.

**Explanation:** The specified bit field length is larger

than the system allows.

**User response:** Use a smaller bit field length.

CCN5080 Template specializations must be prefixed with "template<>".

**Explanation:** Old-style template specializations are

accepted but are no longer compliant.

**User response:** Add the "template <>" syntax.

CCN5081 The attribute "%1\$s" is not a valid type attribute. The attribute is ignored.

**Explanation:** The attribute is ignored because it is not a valid type attribute.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Remove the offending attribute.

CCN5082 The attribute "%1\$s" is not a valid variable attribute. The attribute is

ignored.

**Explanation:** The attribute is ignored because it does

not apply to variables.

In the message text:

"%1\$s" is the invalid attribute.

User response: Remove offending attribute.

CCN5083 An explicit template specialization must not be an untagged class.

**Explanation:** An identifier is required for this

declaration.

User response: Supply the identifier of the template that is being explicitly specialized.

An explicit template instantiation must CCN5084 not be an untagged class.

**Explanation:** An identifier is required for this

declaration.

**User response:** Supply the identifier of the template

that is being explicitly instantiated.

CCN5085 The attribute "%1\$s" is not a valid function attribute. The attribute is

ignored.

**Explanation:** The attribute is ignored because it does

not apply to functions.

In the message text:

"%1\$s" is the invalid attribute.

User response: Remove offending attribute.

CCN5086 The declaration of the template parameters is missing for template

"%1\$s".

**Explanation:** A template must have at least one

template parameter.

In the message text:

"%1\$s" is the incorrect template declaration.

**User response:** Correct the template parameters or remove the invalid template declaration.

CCN5087 The arguments of the template qualifier do not match those of "%1\$s".

**Explanation:** The types and order of template arguments must match the original template.

In the message text:

"%1\$s" is the matching template declaration.

User response: Correct the arguments in the template qualifier.

**CCN5088** An enumeration must not be defined in this context.

**Explanation:** An attempt is being made to define an enumeration in a context where it is not valid to define an enumeration.

**User response:** Move the definition to an appropriate context.

CCN5089 Too many template prefixes are specified for the declaration of "%1\$s".

**Explanation:** The number of template scopes must match the template nesting level of the declaration.

In the message text:

### CCN5090 • CCN5099

"%1\$s" is the incorrect declaration.

**User response:** Remove some of the template scopes.

CCN5090

Not enough template prefixes are specified for the declaration of "%1\$s".

**Explanation:** The number of template scopes must match the template nesting level of the declaration.

In the message text:

"%1\$s" is the incorrect declaration.

User response: Add the correct number of template scopes.

CCN5091

A function explicit instantiation must specify only "template instantiation-name".

**Explanation:** You cannot provide a definition or use the pure virtual specification on a function explicit instantiation.

User response: Correct the function explicit instantiation.

CCN5092

The explicit instantiation of "%1\$s" was ignored because the function definition was not found.

**Explanation:** The function must be defined in the same translation unit as the explicit instantiation.

In the message text:

"%1\$s" is the function being instantiated.

**User response:** Define the function in the same translation unit as the explicit instantiation

CCN5093

A partial specialization of a function is not allowed.

**Explanation:** Only class templates can be partially specialized.

User response: Remove the function partial specialization.

CCN5094

The template parameter must not be qualified.

Explanation: A template parameter defines the parameter to be a type in the scope of the template and therefore cannot be qualified.

**User response:** Remove all qualifiers.

CCN5095

The friend function declaration "%1\$s" will cause an error when the enclosing template class is instantiated with arguments that declare a friend function that does not match an existing definition. The function declares only one function because it is not a template but the function type depends on one or more template parameters.

**Explanation:** This friend function makes use of one or more of the enclosing template's parameters. Therefore different instantiations of the template will create different friend functions. If a created friend function does not exist, the program will not link.

In the message text:

"%1\$s" is the non-template friend declaration that depends on template parameters.

**User response:** Change the friend declaration to a template function (by adding explicit template arguments) or ensure that all instantiations will match an existing function.

CCN5096

No primary class template "%1\$s" is found for a partial specialization.

Explanation: A primary class template must exist for a partial specialization.

In the message text:

"%1\$s" is the incorrect class template partial specialization.

User response: Declare the primary template or remove the partial specialization.

CCN5098

The partial specialization "%1\$s" must be declared in the same scope as the primary template or in a namespace scope that encloses the primary template.

**Explanation:** The primary template must be visible at the point the partial specialization is made.

In the message text:

"%1\$s" is the incorrect class template partial specialization.

**User response:** Move the partial specialization into a correct scope.

CCN5099

The explicit specialization "%1\$s" must be made in the nearest enclosing namespace of the template.

**Explanation:** The explicit specialization must be in the nearest enclosing namespace of the primary template or a namespace in the enclosing namespace set.

In the message text:

"%1\$s" is the incorrect explicit specialization.

**User response:** Move the explicit specialization into a correct scope.

## CCN5100 T

The class qualifier "%1\$s" contains a circular reference back to "%2\$s".

**Explanation:** The two classes contain references to each other that require each class to be defined before the other.

In the message text:

"%1\$s" and "%2\$s" are the classes with circular references.

**User response:** Change one of the classes so that it does not require the other class to be defined.

### CCN5101

A typedef declaration must not contain the specifier "%1\$s".

**Explanation:** A typedef defines another name to use in place of the declared type. The indicated specifier is not valid in this context.

In the message text:

"%1\$s" is the invalid specifier.

**User response:** Remove the specifier.

### CCN5102

A declaration with a "%1\$s" specifier must contain a declarator ID.

**Explanation:** The type for the declaration contains a specifier that requires an object to be declared.

In the message text:

"%1\$s" is the specifier in question.

**User response:** Remove the specifier or declare an object.

### CCN5103

An anonymous union, struct or class declared at namespace scope must be declared static.

**Explanation:** Data members of an anonymous union, struct, or class declared at namespace scope have internal linkage so they must be declared static.

**User response:** Add the static specifier to the union, struct, or class.

### CCN5104

The "%1\$s" specifier must be applied only to objects declared in a block or to function parameters.

**Explanation:** The "%1\$s" specifier has been used on a declaration that is not in an appropriate scope.

In the message text:

"%1\$s" is the specifier in question.

**User response:** Remove the specifier.

## CCN5105

Functions declared within a block must not be "%1\$s".

**Explanation:** A function declared in a lexical block scope cannot have the "%1\$s" specifier.

In the message text:

"%1\$s" is the specifier in question.

User response: Remove the specifier.

### CCN5106

The "static" specifier must be applied only to objects, functions, and anonymous unions, structs and classes.

**Explanation:** The "static" specifier has been applied to an inappropriate object.

User response: Remove the specifier.

### CCN5107

The "extern" specifier must be applied only to objects and functions.

**Explanation:** The "extern" specifier cannot be applied to an out-of-line member variable or a type.

**User response:** Remove the "extern" specifier.

## CCN5108

Class members must not be declared "extern".

**Explanation:** The "extern" specifier cannot be applied to an out-of-line member variable.

**User response:** Remove the "extern" specifier.

## CCN5109

The "mutable" specifier must be applied only to non-reference class data members.

**Explanation:** The "mutable" specifier is being applied to a declaration that is not a member of a class or a member that is a reference.

**User response:** Remove the "mutable" specifier.

## CCN5110

The "inline" specifier must be applied only to function declarations.

**Explanation:** The "inline" specifier is being applied to something other than a function.

**User response:** Remove the "inline" specifier.

### CCN5111

The "explicit" specifier must be applied only to declarations of constructors within a class declaration.

**Explanation:** The "explicit" specifier is being applied

## CCN5112 • CCN5122

to something other than a constructor that is being declared in-line in the class.

**User response:** Remove the "explicit" specifier.

### CCN5112

The "virtual" specifier must be applied only to declarations of non-static class member functions within a class declaration.

Explanation: An attempt is being made to apply the "virtual" specifier inappropriately.

User response: Remove the "virtual" specifier from member functions using classes that are not static, or do not use it outside of a class.

### CCN5113

The "static" specifier must be applied only to class member declarations within a class declaration.

Explanation: An attempt is being made to apply the "static" specifier inappropriately.

**User response:** Remove the "static" specifier.

### CCN5114

A parameter name must not be the same as another parameter of this function.

Explanation: All parameter names for a given function must be unique.

**User response:** Give the parameter a unique name.

### CCN5115

A member variable must have the "%1\$s" attribute to be initialized in the definition of a class.

**Explanation:** Only constants that are also static may be initialized in the definition of a class.

In the message text:

"%1\$s" is the missing specifier.

**User response:** Remove the initializer or ensure that the member is specified as both static and const.

### CCN5116

A template declaration must declare a function, a class, a static member of a template class, or a template member of

Explanation: An attempt is being made to create an invalid template.

User response: Change the declaration so it is not a template, or correct the template declaration.

### CCN5117

Linkage specification must be at namespace scope.

**Explanation:** Linkage specifications are only valid for declarations at namespace scope.

**User response:** Remove the linkage specification.

### **CCN5118**

A class name is expected in the base specifier.

**Explanation:** The name given in the base specifier is not a class.

User response: Remove the base specifier or change it to refer to a class.

### CCN5119

A friend template must not be declared in a local class.

Explanation: A friend of a class defined in a lexical block must not be a template.

**User response:** Move the class to namespace scope or remove the friend declaration.

### CCN5120

The out-of-line member definition "%1\$s" of an explicit specialization should not use a template prefix.

**Explanation:** Out-of-line members of explicit specializations are defined in the same manner as members of non-template classes.

In the message text:

"%1\$s" is the identifier of the out-of-line member.

**User response:** Remove the template prefix.

#### CCN5121 A template cannot have "C" linkage.

**Explanation:** Any linkage other than C++ is defined by implementation. The behavior with any linkage other than C++ is implementation-defined.

**User response:** Remove the "C" linkage.

## CCN5122

The duplicate attribute "%1\$s" is ignored.

Explanation: The attribute "%1\$s" has been specified more than once.

In the message text:

"%1\$s" is the duplicate attribute.

**User response:** Remove the extra attributes.

## CCN5123 The operator symbol is not recognized.

**Explanation:** The operator symbol specified is not valid.

**User response:** Change the operator symbol to a valid symbol.

### CCN5124

The text "typename" is unexpected because it cannot be used to modify a base specifier.

**Explanation:** A name specified in a base specifier list must be a type so typename is not required for template dependent names in a base specifier list.

**User response:** Remove the "typename" elaboration from the name.

## CCN5125 The duplicate specifier "%1\$s" is ignored.

**Explanation:** The specifier "%1\$s" has been specified more than once.

In the message text:

"%1\$s" is the duplicate specifier.

User response: Remove the extra specifiers.

## CCN5126 Taking the address of a label is not supported.

**Explanation:** The gcc extension of taking the address of a label is not supported.

**User response:** Remove the "&&" from in front of the identifier.

### CCN5127

The text "typename" is unexpected because it cannot be used to modify a name in a constructor initializer list.

**Explanation:** A name specified in a constructor initializer list must be a member or a base class so typename is not required for template dependent names in a constructor initializer list.

**User response:** Remove the "typename" elaboration from the name.

## CCN5128 "%1\$s" is an ambiguous qualifier.

**Explanation:** The qualifier "%1\$s" is ambiguous since there is more than one name to which it resolves.

In the message text:

"%1\$s" is the ambiguous qualifier.

**User response:** Add extra qualification to remove the ambiguity.

## CCN5129 The qualifier "%1\$s" is not defined in the current scope.

**Explanation:** The name being used as a qualifier has not been declared in a visible scope.

In the message text:

"%1\$s" is the unknown qualifier.

**User response:** Change the qualifier to a name that has been declared.

## CCN5130 "%1\$s" is not declared.

**Explanation:** The name "%1\$s" is not declared in any visible scope.

In the message text:

"%1\$s" is the unknown name.

**User response:** Change the name to one that has been declared.

## CCN5131 Only one calling convention can be specified here.

**Explanation:** More than one calling convention is being specified.

**User response:** Remove the extra calling conventions.

## CCN5132 The expression must be a constant expression.

**Explanation:** A constant expression is expected but the expression specified is not a constant expression.

**User response:** Make the expression a constant expression.

### CCN5133 The attributes "%1\$s" are not allowed.

**Explanation:** The specifier or qualifier "%1\$s" is incorrect in this type of declaration.

In the message text:

"%1\$s" is the invalid attributes.

**User response:** Remove the invalid attributes.

## CCN5134 A function return type must not be a type definition. There may be a missing

";" after a "}".

**Explanation:** An attempt has been made to define a class in the return type of a function. This is usually caused by a missing ";" after the class definition.

**User response:** Change the return type or ensure that a previous class definition has a ";" at the end of it.

## CCN5135 • CCN5145

CCN5135 The array bound cannot be zero.

**Explanation:** An array cannot be declared with zero

elements.

**User response:** Change the array bound.

CCN5136 A return type must not be specified for a constructor.

Explanation: Constructors cannot have return types. A member or member function that has the same name as the class is considered a constructor, even if it is ill-formed.

User response: Remove the return type or rename the member.

The attribute "%1\$s" is not allowed for a CCN5137 constructor.

**Explanation:** A declaration of a constructor cannot have the "%1\$s" attribute.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Remove the attribute.

CCN5138 The undefined template "%1\$s" must not be explicitly instantiated.

**Explanation:** An explicit instantiation requires a definition.

In the message text:

"%1\$s" is the identifier of the undefined template.

**User response:** Define the template or remove the explicit instantiation.

CCN5139 In the context of the forward declaration, the name "%1\$s" must not be qualified.

**Explanation:** A qualified name cannot be used in a forward declaration for a class.

In the message text:

"%1\$s" is the qualified name.

**User response:** Remove the qualifiers from the name.

CCN5140 The text "%1\$s" is unexpected. "%2\$s" may be undeclared, ambiguous, or may require "typename" qualification.

**Explanation:** There is a syntax error in the declaration. A name may be expected to be a type that is unknown or ambiguous, or the type specified may be template-dependent and require typename qualification.

In the message text:

"%1\$s" is the symbol causing the syntax error. "%2\$s" is the name that may be causing the error if it is expected to be a type.

**User response:** Remove the offending symbol, ensure that the name used as a type name is actually a type, or add typename qualification to the type.

CCN5141 The declaration "%1\$s" must not become a function because of a template argument.

**Explanation:** Only a declaration that uses the syntactic form of a function can be a function.

In the message text:

"%1\$s" is the declaration that is acquiring function type.

User response: Change the template argument, or change the declaration.

CCN5142 cv-qualifiers must not be added to a typedef of function type.

**Explanation:** The const and volatile qualifiers cannot be specified on a type where a typedef that refers to a function is used.

**User response:** Remove the const or volatile specifiers.

CCN5143 The qualifier "%1\$s" is not a class.

**Explanation:** A typedef that does not refer to a class is being used as a qualifier.

In the message text:

"%1\$s" is the invalid qualifier.

**User response:** Change the qualifier to refer to a class.

CCN5144 A non-local declaration is not allowed in a function body.

Explanation: Only local declarations are allowed in a function body.

**User response:** Change the declaration to be a local declaration, or move it to the correct scope.

CCN5145 The explicit instantiation "%1\$s" of the class template does not match the primary template.

**Explanation:** If the primary template is a union, the explicit instantiation must be a union as well. If the primary template is a class, the explicit instantiation must be a class.

In the message text:

"%1\$s" is the explicit instantiation.

**User response:** Make sure that the class keys match.

## CCN5147 Friend declarations are allowed only in classes and structs.

**Explanation:** Friends allow access to protected and private members. Because only classes and structs have members, only classes and structs can have friend declarations.

**User response:** Remove the friend declaration.

## CCN5148 A friend declaration must not be an explicit specialization.

**Explanation:** An explicit specialization declaration must not be a friend declaration.

**User response:** Remove the friend or change it so it is not an explicit specialization.

## CCN5149 A template defined in an unnamed namespace must not be exported.

**Explanation:** Exported namespace scope template definitions must be in a named namespace.

**User response:** Do not export the template, give the namespace a name, or move the template to another namespace scope.

## CCN5150 A using declaration must not specify a template-id.

**Explanation:** You cannot specify a template ID in a using declaration.

**User response:** Remove or change the using declaration.

## CCN5151 A friend function that is qualified must not be defined.

**Explanation:** Only friend functions without qualification can be defined in the friend declaration.

**User response:** Define the friend function in a different declaration.

## CCN5152 A template dependent name that is a type must be qualified with "typename".

**Explanation:** The keyword "typename" is used to identify a name in a template as a type.

**User response:** Add the keyword typename.

## CCN5153 The attribute "%1\$s" is ignored.

**Explanation:** The identified attribute is not supported and it is ignored.

In the message text:

"%1\$s" is the invalid attribute.

User response: Remove the attribute specifier.

## CCN5154 A class, struct, or union must not be defined in a friend declaration.

**Explanation:** Only functions can be defined in friend declarations.

**User response:** Define the friend in another

declaration.

## CCN5155 A template parameter must not be used in an elaborated type specifier.

**Explanation:** If the identifier in an elaborated type specifier resolves to a typedef or a template type parameter, it is ill-formed.

**User response:** Remove the construct.

## CCN5156 "%1\$s" keyword is not supported on this platform. The keyword is ignored.

**Explanation:** The keyword has no meaning for the current platform and is ignored.

In the message text:

"%1\$s" is the ignored keyword.

**User response:** Remove the keyword for this platform.

# CCN5157 The text ">" is unexpected. It may be that this token was intended as a template argument list terminator but the name is not known to be a template.

**Explanation:** An unexpected ">" was seen. This situation can arise when a template name is misspelled and is thus interpreted as a variable name rather than a template.

**User response:** Check that previous template names are correct.

# CCN5158 The attribute "%1\$s" is not supported on the target platform. The attribute is ignored.

**Explanation:** The identified attribute specifier is not supported on the target platform, and it is ignored.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Remove the attribute specifier.

# CCN5159 A storage class cannot be specified on a declaration directly contained in a linkage specification.

**Explanation:** This declaration is contained within a linkage specification and therefore cannot have a storage class.

**User response:** Remove the storage class.

### CCN5160 • CCN5171

CCN5160 " thread" is not allowed on a class.

**Explanation:** The "\_\_thread" specifier cannot be used on a declaration for a class

on a declaration for a class.

**User response:** Remove the "\_\_thread" specifier.

CCN5161 "%1\$s" is already specified.

**Explanation:** The name has already been specified.

In the message text:

"%1\$s" is the name that has been already specified.

**User response:** Remove the duplicate name.

CCN5162 "\_thread" is not allowed on an enumeration.

**Explanation:** The "\_\_thread" specifier cannot be used in a declaration for an enumeration.

**User response:** Remove the "\_\_thread" specifier.

CCN5163 The array bound must not be negative.

Explanation: An array cannot be declared with a

negative number of elements.

**User response:** Change the array bound.

CCN5164 The operator "%1\$s" is ambiguous.

**Explanation:** The specified operator is ambiguous because it can resolve to more than one declaration.

In the message text:

"%1\$s" is the ambiguous operator.

**User response:** Add more qualifiers to resolve the ambiguity.

ambigaity.

CCN5165 Only a positive integral constant which is a power of 2 is allowed in the \_\_align specifier.

**Explanation:** The \_\_align specifier must have a power of two since these are the only boundaries that align with memory.

**User response:** Change the integral constant to be a power of two.

**CCN5166** 

The \_\_align specifier can only be applied to the definition of an aggregate tag or the declaration of a global or static variable.

**Explanation:** The \_\_align specifier has been applied to an inappropriate type of declaration.

**User response:** Remove the \_\_align specifier.

CCN5167

Only a positive integral constant which is a power of 2 is allowed in the aligned attribute specifier.

**Explanation:** The aligned attribute must have a power of two since these are the only boundaries that align with memory.

**User response:** Change the integral constant to be a power of two.

**CCN5168** 

The specified alignment of "%1\$s" exceeds the maximum supported value of "%2\$s". The attribute is ignored.

**Explanation:** An alignment value exceeded the maximum supported value. The alignment will be ignored.

In the message text:

"%1\$s" is the specified alignment. "%2\$s" is the maximum supported value for alignment.

**User response:** Use an alignment less than or equal to the maximum.

CCN5169

\_\_align specifier and \_\_attribute\_\_((aligned)) are both specified. Only the last one will be accepted.

**Explanation:** Only a one of \_\_align specifier or \_\_attribute\_\_((aligned)) will have an effect on alignment.

In the message text:

\_align is a keyword \_attribute\_((aligned)) is a keyword

User response: Specify only one of \_\_align specifier or \_\_attribute\_\_((aligned))

CCN5170

Attribute "%1\$s" is not supported for type specifications, and is ignored.

**Explanation:** The specified attribute is not supported as a type attribute, and it is ignored.

In the message text:

"%1\$s" is a type attribute name.

**User response:** Remove the type attribute.

CCN5171

The value given for "%1\$s" attribute is not a valid number. The attribute is ignored.

**Explanation:** The attribute is ignored because the argument is not a valid number.

In the message text:

"%1\$s" is an attribute name.

**User response:** Change the argument to evaluate to the required range.

## CCN5172 Arguments to be formatted must follow the format string argument.

**Explanation:** The attribute is ignored because an incorrect argument value is specified.

**User response:** Change the argument to evaluate to the required range.

### CCN5173 "{" is expected.

**Explanation:** An opening brace is expected for the function or member list.

User response: Add appropriate bracing.

## CCN5174 Arguments to be formatted cannot be specified for strftime formats.

**Explanation:** The attribute is ignored because an incorrect argument value is specified.

**User response:** Change the argument to evaluate to the required range.

# CCN5178 An enumeration must not contain both a negative value and an unsigned value greater than LONGLONG MAX.

**Explanation:** An enumeration cannot contain both negative values and unsigned values greater than LONGLONG\_MAX because they both cannot be represented by the same type.

**User response:** Remove the enumeration constant with the invalid value.

### CCN5179 The enumeration value is too large.

**Explanation:** The enumeration value cannot be represented because it is too large for the underlying type.

**User response:** Remove the invalid enumeration value.

## CCN5183 The explic

The explicit instantiation "%1\$s" should be in a namespace enclosing the template and use a qualified name if not in the innermost such namespace.

**Explanation:** Where the template name is qualified, the explicit instantiation must be in an enclosing namespace of the primary template. If the template name is not qualified, the explicit instantiation must be in the nearest enclosing namespace of the primary template or a namespace in the enclosing namespace set.

In the message text:

"%1\$s" is the explicit instantiation.

**User response:** Move the explicit instantiation to a correct scope or properly qualify it.

## CCN5184 The "{" has no matching "}".

**Explanation:** There are not enough "}"s in the source so some construct is not complete.

**User response:** Add the appropriate number of "}"s.

# CCN5185 The "%1\$s" linkage specifier must only be applied to a function or a pointer to a function.

**Explanation:** The "%1\$s" linkage specifier is being applied to something other than a function or pointer to function.

In the message text:

"%1\$s" is the linkage specifier from the user's source code.

**User response:** Remove the linkage specifier.

## CCN5186 A ";" or "," is expected following the initializer.

**Explanation:** An initializer was incomplete. **User response:** Add ";" after the initializer.

### CCN5187 The "(" has no matching ")".

**Explanation:** There is an imbalance of left and right parentheses.

**User response:** Ensure that each left parenthesis has a matching right parenthesis.

## CCN5188 A ")" or "," is expected following the initializer.

**Explanation:** The initializer is not properly formed.

**User response:** Add the appropriate ending token to complete in the initializer.

## CCN5189 Only static member variables of templates can be instantiated.

**Explanation:** A non-static data member of a template cannot be explicitly instantiated.

**User response:** Remove the explicit instantiation, or explicitly instantiate the class.

## CCN5190 A "{" must follow a constructor initializer.

**Explanation:** A body for the constructor must follow the constructor initializer list.

## CCN5191 • CCN5202

**User response:** Add a body for the constructor.

CCN5191 A handler must be a compound statement.

**Explanation:** A catch handler must be a lexical block enclosed by "{" and "}".

**User response:** Add a well-formed catch handler.

CCN5192 A "{" must follow a base specifier list.

**Explanation:** Only class definitions can have a base specifier list. All class definitions must include a member list.

User response: Add a member list to the class definition.

CCN5193 A typedef name cannot be used in this context.

**Explanation:** Only actual class names, and not typedef names, can be used in elaborations.

User response: Replace the typedef name with the class it represents.

CCN5194 The "%1\$s" declaration must declare a function.

**Explanation:** An operator or conversion function name in a declaration can only be used in a function declaration.

In the message text:

"%1\$s" is the declaration from the user's source code.

**User response:** Change the name in the declaration.

The initializer has a syntax error. CCN5195

**Explanation:** The initializer is not well-formed.

User response: Correct the syntax error in the initializer.

CCN5196 A friend declaration must not declare a partial specialization.

**Explanation:** The partial specialization of a template class cannot be declared in a friend declaration.

**User response:** Remove the friend declaration or change it from a partial specialization.

CCN5197 The "asm" keyword declaration is not supported.

**Explanation:** Inserting inline assembler instructions using the "asm" declaration is not supported. It is ignored.

**User response:** Remove the "asm" declaration.

CCN5198 The omitted keyword "private" is assumed for base class "%1\$s".

**Explanation:** The access to the base class is not specified and is assumed to be private.

In the message text:

"%1\$s" is the name of the base class which is assumed to be private.

User response: Add either "public," "protected," or "private" to the base class specifier.

CCN5199 An explicit instantiation must specify only a template class instantiation name.

Explanation: An explicit instantiation cannot contain a class definition. It must have a template argument list.

User response: Correct or remove the explicit instantiation.

CCN5200 The "%1\$s" operator is not allowed between "%2\$s" and "%3\$s".

**Explanation:** The "%1\$s" operator cannot be used between the two specified expressions because the operator is not defined for the types of the expression.

In the message text:

"%1\$s" is the operator. "%2\$s" and "%3\$s" are the operands.

**User response:** Change the operator or one or both of the operands.

CCN5201 The "%1\$s" operator is not allowed for type "%2\$s".

Explanation: The "%1\$s" operator cannot be used with the specified expression because the operator is not defined for the type of the expression.

In the message text:

"%1\$s" is the operator. "%2\$s" is the operand.

**User response:** Change the operator or the operand.

CCN5202 An expression of type "%1\$s" is not allowed on the left side of "%2\$s%3\$s".

Explanation: The type of the expression on the left side of the operator is not correct.

In the message text:

"%2\$s%3\$s" are the operands. "%1\$s" is the operator.

**User response:** Change the left operand.

CCN5203

The member expression ".%1\$s" or "->%1\$s" must be used with the function call operator ().

**Explanation:** The member expression refers to a member function so it must be used with the function call operator.

In the message text:

where "%1\$s" is the name of the member function.

**User response:** Add the function call operator with the parameters required for the member function call.

CCN5204

An expression of type "%1\$s" must not be followed by the function call operator ().

**Explanation:** Only functions can be followed by a function call operator ().

In the message text:

where "%1\$s" is the type of the name referenced with the function call operator ().

**User response:** Remove the function call operator ().

CCN5205

An expression of type "%1\$s" is not allowed where an rvalue is expected.

**Explanation:** The expression cannot be used in this situation since it has void type.

In the message text:

"%1\$s" is the type of the expression.

**User response:** Change the expression.

CCN5206

An rvalue of type "%1\$s" cannot be converted to an rvalue of type bool.

**Explanation:** There is no valid conversion sequence for converting the expression to an expression of type bool.

In the message text:

"%1\$s" is the type of expression.

**User response:** Change the expression or provide a conversion sequence.

CCN5207

No common type found for operands with type "%1\$s" and "%2\$s".

**Explanation:** There is no standard conversion sequence between the two types.

In the message text:

"%1\$s" and "%2\$s" are the types of the operands.

**User response:** Define a conversion sequence between the two types.

CCN5208

The operand for "%1\$s" is of type "%2\$s" but a pointer-to-member type is required.

**Explanation:** The operator is expecting a pointer-to-member as an operand but the operand is of type "%2\$s".

In the message text:

"%1\$s" is the operator. "%2\$s" is the unexpected type.

**User response:** Change the operand to be a pointer-to-member.

CCN5209

The result of this pointer-to-member operator must be the operand of the function call operator ().

**Explanation:** This expression is expected to be a function call.

**User response:** Change the expression to be a function call.

CCN5210

"%1\$s" is not a base class of "%2\$s".

**Explanation:** The class specified is not a base class, so the devirtualization or destructor name is not valid.

In the message text:

"%1\$s" is the problematic class. "%2\$s" is the expected derived class.

**User response:** Change the name to refer to a base class.

CCN5211

The array operator must have one operand that is a pointer to a complete type and an operand that is of integral type.

**Explanation:** Either the variable is not an array or pointer or the index is not an integral type.

**User response:** Change the variable to be an array or pointer or the index to be an integer.

CCN5212

The operand of the "%1\$s" operator must be an lvalue.

**Explanation:** The operator expects an object as its operand.

In the message text:

"%1\$s" is the operator.

**User response:** Change the operand to be an object.

## CCN5213 • CCN5221

#### CCN5213 The local label "%1\$s" is not defined.

**Explanation:** The label is declared but it is not defined.

In the message text:

"%1\$s" is the label that is not defined.

**User response:** Create the label statement.

### CCN5214

The conditional expression of a switch statement must be of integral or enumeration type.

**Explanation:** Integral types are all sizes of int and char as well as enumerations. A switch statement condition must have an integral type or something that can be converted to an integral type.

**User response:** Modify the switch condition or use an if statement instead of a switch.

#### CCN5215 The wrong number of arguments has been specified for "%1\$s".

**Explanation:** When a function is called, the arguments are matched against the actual parameters in the function declaration. There must be the same number of arguments in the call as there are parameters in the declaration unless there are default arguments specified.

In the message text:

Where "%1\$s" is the name of the function being called.

User response: Verify the function declaration and provide the correct number of arguments in your call.

#### CCN5216 An expression of type "%1\$s" cannot be converted to type "%2\$s".

**Explanation:** To convert between types, the compiler uses a set of specific rules defined in the C++ language. In this case the compiler was unable to convert between the specified types.

In the message text:

"%1\$s" is the type being converted from. "%2\$s" is the type being converted to.

**User response:** Modify the expression so that the conversion can be made, or define a conversion function to do the conversion.

#### CCN5217 "%1\$s" is not a member of "%2\$s".

**Explanation:** When using the . or -> operators to access a class member, the name after the operator must be a member of the class.

In the message text:

"%1\$s" is the name of the member you are attempting

to access. "%2\$s" is the name of the class.

**User response:** Verify with the class declaration to see that you are accessing a member.

#### The call does not match any parameter CCN5218 list for "%1\$s".

**Explanation:** The compiler will attempt to match the arguments in your function call against all functions defined with the name you are calling. It cannot match the number and types or arguments in your call with one of the declarations for the function.

In the message text:

"%1\$s" is the name of the function.

**User response:** Check the declaration of the function you want to call and modify your arguments so that they match.

#### CCN5219 The call to "%1\$s" has no best match.

**Explanation:** When a function is called, the compiler will check all the function declarations it has for the name you are calling. In this case, the compiler was unable to determine which one to call because there is not a single version that is a best match. The criteria for a best match is based on the types of the parameters and the conversions required to match them with the arguments in your call.

In the message text:

"%1\$s" is the name of the function being called.

**User response:** Check the declarations for functions with that name and modify your arguments so that the correct one can be matched.

#### CCN5220 The address of a bit field cannot be taken.

**Explanation:** C++ language standards indicate that the & operator cannot be applied to bit fields.

**User response:** Change the bit field to an array or remove the line which attempts to take the address of the bit field.

#### CCN5221 The case expression must be an integral constant expression.

Explanation: Integral types are all sizes of int and char as well as enumerations. A case expression must be an integral constant expression which is an expression which results in an integral type.

**User response:** Modify the expression so that it is an integral constant expression, or change the switch statement to an if statement.

CCN5222 The function must not have a return

**Explanation:** The function was declared with a return type of void, so it cannot have a return value specified.

**User response:** Remove the return value, or modify the function declaration to return the required type.

CCN5223 A return value of type "%1\$s" is expected.

**Explanation:** The function was declared with a specific return type, so it should return a value of that type.

In the message text:

"%1\$s" is the type of the expected return value.

**User response:** Modify the return type to match the declaration, or modify the declaration.

CCN5224 The type name "%1\$s" is used where a variable or function name is expected.

**Explanation:** The expression was expected to be an object or function name but a type name was found.

In the message text:

"%1\$s" is the type name.

**User response:** Replace the type with an object or function name.

CCN5225 The initializer list has too many initializers.

**Explanation:** An initializer list should not have more initializers than the number of elements to initialize.

**User response:** Remove some initializers or increase the number of elements to initialize.

CCN5226 The initializer must not be enclosed in braces.

**Explanation:** Only initializers for classes and arrays can have braces "{" and "}".

**User response:** Remove the braces.

CCN5227 "%1\$s" cannot be initialized with an initializer list.

**Explanation:** The specified type cannot be initialized with an initializer list in braces "{" and "}".

In the message text:

"%1\$s" is the type that cannot be initialized with an initializer list.

**User response:** Verify that the type is one that may be used with an initializer list. References cannot be

initialized with an initializer list.

CCN5228

A "&" must precede the qualified member "%1\$s" to form an expression with type pointer-to-member.

**Explanation:** A non-static member of a class was referred to with a qualified name, but no object is specified.

In the message text:

"%1\$s" is the member.

User response: Refer to an object.

CCN5229 The best viable function "%1\$s" uses an ambiguous conversion sequence.

**Explanation:** The overloaded function that has the closest match requires a conversion where one of the steps has more than one valid choice.

In the message text:

"%1\$s" is the overloaded function.

**User response:** Provide a closer matching overload for the function being called.

CCN5230 The overloaded function name is not used in a valid context.

**Explanation:** It is not valid to use an overloaded function here.

**User response:** Use a non-overloaded function.

CCN5231 The array bound must be specified and must be a positive integral constant expression.

**Explanation:** Only the first array bound in a series of array bounds can be omitted when declaring a multi-dimensional array.

**User response:** Add the missing array bounds.

CCN5232 The implicit constructor for "%1\$s" initializes a const member.

**Explanation:** The class contains a const member which must be initialized so a constructor must be provided.

In the message text:

"%1\$s" is the class.

**User response:** Provide a constructor.

CCN5233 The implicit constructor for "%1\$s" initializes a reference member.

**Explanation:** The class contains a reference member which must be initialized so a constructor must be provided.

## CCN5234 • CCN5243

In the message text:

"%1\$s" is the class.

**User response:** Provide a constructor.

CCN5234

The implicit constructor for "%1\$s" initializes a member of class type with an ill-formed constructor.

**Explanation:** The class contains a member of class type which does not have a default constructor so a constructor must be provided.

In the message text:

"%1\$s" is the class.

**User response:** Provide a constructor.

CCN5235

The implicit constructor for "%1\$s" initializes a base class with an ill-formed constructor.

**Explanation:** The class has a base class which does not have a default constructor so a constructor must be provided.

In the message text:

"%1\$s" is the class.

**User response:** Provide a constructor.

CCN5236

The constructor initializer is unexpected. All bases and members have been initialized.

**Explanation:** The constructor initializer list has more elements being initialized than exist in the class. Either objects are initialized more than once or non-members are in the initializer list.

**User response:** Remove the extra initializers from the constructor initializer list.

CCN5237

"%1\$s" designates both a direct non-virtual base class and an inherited virtual base class.

**Explanation:** The class is ambiguous because it refers to both a virtual base class and a non-virtual base class.

In the message text:

"%1\$s" is the ambiguous base class name.

**User response:** Add qualifiers to make the name unambiguous.

CCN5238

The data member "%1\$s" cannot be initialized because there is no corresponding default constructor.

**Explanation:** The data member was not in the constructor initializer list, but the type does not have a

default constructor so the type cannot be constructed.

In the message text:

"%1\$s" is the class member.

**User response:** Add the member to the constructor initializer list.

CCN5239

The base class "%1\$s" cannot be initialized because it does not have a default constructor.

**Explanation:** The base class was not in the constructor initializer list. The type does not have a default constructor so the base class cannot be constructed.

In the message text:

"%1\$s" is the base class.

**User response:** Add the base class to the constructor initializer list.

CCN5240

A duplicate case value is not allowed.

**Explanation:** The switch statement cannot choose a single case if there are duplicate case values.

**User response:** Remove or modify the duplicate case value.

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CCN5241 A "%1\$s" statement is not allowed in this scope.

**Explanation:** It is not valid to have this type of statement in this scope.

In the message text:

"%1\$s" is the type of statement.

**User response:** Remove the statement.

CCN5242

"goto %1\$s" bypasses the initialization of "%2\$s".

**Explanation:** The goto statement skips over the initialization of an automatic variable.

In the message text:

"%1\$s" is the label. "%2\$s" is the missed variable.

**User response:** Move the label before the variable declaration.

CCN5243

Label "%1\$s" is already defined.

**Explanation:** A label can only refer to one location in a function.

In the message text:

"%1\$s" is the duplicate label.

User response: Rename the label.

CCN5244 Label "%1\$s" is not declared in this function.

**Explanation:** Labels are only visible within the function in which they exist; either the label is not defined or it is in a different function than the goto.

In the message text:

"%1\$s" is the missing label.

**User response:** Add the label to the function.

CCN5245 The switch statement already has a "default" statement.

**Explanation:** A switch statement may contain only one default statement.

**User response:** Remove the extra default statement.

CCN5246 The "%1\$s" statement bypasses the initialization of "%2\$s".

**Explanation:** A case in the switch statement contains automatic variables that are not contained within a compound statement.

In the message text:

"%1\$s" is the case or default statement. "%2\$s" is the bypassed variable.

**User response:** Add a pair of braces {} to enclose the code containing the automatic variable.

CCN5248 "%1\$s" is not a class name.

**Explanation:** The name was expected to be a class name but it is not.

In the message text:

"%1\$s" is the name.

**User response:** Change the name to be a class name.

CCN5249 Default arguments are not available due to other errors.

**Explanation:** This error is a cascade error. The default initializers cannot be used because of other errors.

**User response:** Fix the errors in the default initializers.

CCN5250 The keyword "this" is only allowed in a non-static class member function body or in a constructor member initializer.

**Explanation:** The "this" keyword has been used in the wrong context.

User response: Remove the "this" keyword.

CCN5251 The "%1\$s" operator cannot be applied to the undefined class "%2\$s".

**Explanation:** The use of the "%1\$s" operator requires that the class that is being used as the operand be defined and not just declared.

In the message text:

"%1\$s" is the operator. "%2\$s" is the undefined class.

**User response:** Define the class.

CCN5252 "%1\$s" contains a circular reference back to "%2\$s".

**Explanation:** The two classes contain references to each other that require each class to be defined before the other.

In the message text:

"%1\$s" and "%2\$s" are the classes with circular references.

**User response:** Change one of the classes so that it does not require the other class to be defined.

CCN5253 This use of undefined class "%1\$s" is not valid.

**Explanation:** The usage requires that the class be defined and not just declared.

In the message text:

"%1\$s" is the class.

**User response:** Define the class.

CCN5254 The non-static member "%1\$s" must be associated with an object or a pointer to an object.

**Explanation:** A member of a class has been referred to without an object but it is not a static member.

In the message text:

"%1\$s" is the member.

User response: Specify an object.

CCN5255 The implicit member function "%1\$s" cannot be defined.

**Explanation:** This is a cascading error. The implicit member function cannot be defined due to other errors in the class.

In the message text:

"%1\$s" is the member function that cannot be defined.

**User response:** Fix the errors in the class.

CCN5256

A parameter of type "%2\$s" cannot be initialized with an expression of type "%1\$s".

**Explanation:** The type of the argument for the function does not match the type of the parameter.

In the message text:

"%2\$s" is the parameter type. "%1\$s" is the initialization expression type.

User response: Change the type of the parameter to match the expected type.

CCN5257

An object or reference of type "%2\$s" cannot be initialized with an expression of type "%1\$s".

**Explanation:** The type of the expression is not correct for initializing the object or reference.

In the message text:

"%2\$s" is the object or reference type. "%1\$s" is the initialization expression type.

**User response:** Change the type of the initializer.

CCN5258

A return value of type "%2\$s" cannot be initialized with an expression of type "%1\$s".

**Explanation:** The type of the expression in the return statement does not match the return type of the function.

In the message text:

"%2\$s" is the return value type. "%1\$s" is the initialization expression type.

**User response:** Change the type of the expression to the return type of the function.

CCN5259

The name lookups of "%1\$s" do not yield the same type in the context of the expression and in the context of the class of the object expression.

**Explanation:** When a qualified name is specified in a member access, it is looked up in the context specified on the left side of the "." or "->" and in the context of the entire expression. It must resolve in only one of these lookups or it must resolve to the same declaration in both lookups.

In the message text:

"%1\$s" is the name being looked up.

**User response:** Change the name.

CCN5260 A goto must not enter a try block or handler.

**Explanation:** A goto has been specified to a label that is in a try block or catch handler that does not also contain the goto statement.

**User response:** Change the label.

CCN5261

The header <typeinfo> must be included before using the typeid operator.

**Explanation:** The use of the typeid operator requires that the standard header <typeinfo> be included using a #include directive before it is used.

**User response:** Include the <typeinfo> header.

CCN5262

The first argument to the "offsetof" macro must be a class type.

Explanation: The "offsetof" macro can only be used with class types.

**User response:** Change the first argument to be a class type.

CCN5263

The non-const member function "%1\$s" is called for "%2\$s".

**Explanation:** Only const member functions can be called with a const object.

In the message text:

"%1\$s" is the function. "%2\$s" is the object.

**User response:** Change the member function to be const or change the object to be non-const.

CCN5264

The non-volatile member function "%1\$s" is called for "%2\$s".

**Explanation:** Only volatile member functions can be called with a volatile object.

In the message text:

"%1\$s" is the function. "%2\$s" is the object.

**User response:** Change the member function to be volatile or change the object to be non-volatile.

CCN5265

A pointer to non-const member function type "%1\$s" is called for "%2\$s".

**Explanation:** Only const member functions can be called with a const pointer-to-member.

In the message text:

"%1\$s" is the function. "%2\$s" is the type.

**User response:** Change the member function to be const or change the pointer-to-member to be const.

A pointer to non-volatile member function type "%1\$s" is called for "%2\$s".

**Explanation:** Only volatile member functions can be called with a volatile pointer-to-member.

In the message text:

"%1\$s" is the function. "%2\$s" is the type.

**User response:** Change the member function to be volatile or change the pointer-to-member to be volatile.

CCN5267

The second operand to the "offsetof" macro is not valid.

**Explanation:** The second operand of the "offsetof" macro is expected to be a member.

**User response:** Change the second operand to be a member.

**CCN5268** 

"%1\$s" has more than one default constructor.

**Explanation:** A class can only have one default constructor. A constructor with default initializers for all but the first parameter is considered a default constructor if all of the defaults are used.

In the message text:

"%1\$s" is the class.

**User response:** Remove one of the default initializers or specify more arguments when calling the constructor.

CCN5269

"%1\$s" has no default constructor.

**Explanation:** The class has no default constructor and one cannot be generated since the class contains objects that do not have default constructors.

In the message text:

"%1\$s" is the class.

**User response:** Specify a default constructor.

CCN5270

An object of type "%2\$s" cannot be constructed from an lvalue of type "%1\$s".

**Explanation:** There is no constructor for the object that can be used for constructing the object.

In the message text:

"%2\$s" and "%1\$s" are the types of the target and the expression.

**User response:** Add an appropriate constructor or change the type.

CCN5271

"%1\$s" is an ambiguous base class of "%2\$s".

**Explanation:** The base class is ambiguous because the class has more than one base class with the same name.

In the message text:

"%1\$s" is the base. "%2\$s" is the class.

**User response:** Add qualifiers to uniquely specify the base class.

CCN5272

An array allocated by "new" cannot have an initializer.

**Explanation:** An initializer cannot be specified for an array that is allocated using new.

**User response:** Remove the initializer.

CCN5273

The array bound must have a positive value.

**Explanation:** An array cannot be declared with a negative number of elements.

**User response:** Change the array bound.

CCN5274

The name lookup for "%1\$s" did not find a declaration.

**Explanation:** The name is not declared within this or an enclosing scope.

In the message text:

"%1\$s" is the unresolved name.

**User response:** Declare the variable or change the name to a name in this or an enclosing scope.

CCN5275

The array boundary must have integral type or enumeration type.

**Explanation:** Only integral types can be used to specify an array bound.

**User response:** Change the array bound to be an integral type.

CCN5276

The local variable "%1\$s" cannot be used in this context.

**Explanation:** A local variable cannot be used to specify default initializers for a function.

In the message text:

"%1\$s" is the local variable.

**User response:** Remove the default initializers.

## CCN5277 • CCN5287

CCN5277

The local variable "%1\$s" from function "%2\$s" cannot be used in function

"%3\$s".

**Explanation:** A local variable from an enclosing function cannot be used in this context.

In the message text:

"%1\$s" is the variable. "%2\$s" is the enclosing function. "%3\$s" is the current function.

**User response:** Remove the variable usage.

CCN5278

The reference variable "%1\$s" must be initialized.

Explanation: All reference variables must be initialized but no initializer is specified.

In the message text:

"%1\$s" is the reference variable.

User response: Specify an initializer.

CCN5279

The class member "%1\$s" of type "%2\$s" must be initialized in the initializer list of the constructor.

**Explanation:** The member must be initialized in the constructor initializer list.

In the message text:

"%1\$s" is the member. "%2\$s" is the class type.

**User response:** Add an initializer to the constructor initializer list.

CCN5280

The initializer is too long.

**Explanation:** The initializer for the array has too many

**User response:** Remove the extra initializers.

CCN5281

An expression of type "%1\$s" cannot be modified.

**Explanation:** The expression on the left side of the assignment or reference parameter cannot be modified.

In the message text:

"%1\$s" is the type that cannot be modified.

**User response:** Substitute an object that can be modified.

CCN5282

The const variable "%1\$s" is uninitialized.

**Explanation:** All const variables must be initialized.

In the message text:

"%1\$s" is the const variable.

**User response:** Initialize the variable.

CCN5283

"%1\$s" is not a valid type for a function-style cast.

**Explanation:** Only simple type specifiers (built-in types and named types) can be used in a function-style

In the message text:

"%1\$s" is the type that is attempting to be cast to.

**User response:** Change the type of the cast.

CCN5284

The bit field "%1\$s" cannot be bound to a non-const reference.

**Explanation:** A bit field can only be bound to a non-volatile const reference.

In the message text:

"%1\$s" is the bit field.

**User response:** Change the reference type.

CCN5285

The expression calls the undefined pure virtual function "%1\$s".

**Explanation:** Undefined pure virtual functions cannot be directly called.

In the message text:

"%1\$s" is the function.

**User response:** Change the function being called.

CCN5286

The unqualified member "%1\$s" should be qualified with "%2\$s::" and preceded by an "&" when forming an expression with type pointer-to-member.

**Explanation:** A non-static member must be associated with an object.

In the message text:

"%1\$s" is the member. "%2\$s" are the qualifiers.

**User response:** Add the qualifiers and address operator.

CCN5287

"offsetof" must not be applied to "%1\$s". It is not a POD (plain old data) type.

**Explanation:** "offsetof" cannot be applied to a class that is not a POD. POD types do not have non-static pointers-to-member, non-POD members, destructors, or copy assignment operators (that is, they are similar to C-style structs).

In the message text:

"%1\$s" is the type.

**User response:** Change the type to be a POD type.

CCN5288

The function template parameter of type "%2\$s" cannot be initialized with an argument of type "%1\$s".

**Explanation:** The type of the argument is not appropriate for the type expected.

In the message text:

"%2\$s" is the function template parameter type. "%1\$s" erroneous argument specified.

**User response:** Change the type of the argument.

CCN5289

The function template parameter "%1\$s" has been found to have two types: type "%2\$s" and type "%3\$s".

**Explanation:** Template argument deduction has arrived at two equally likely types for the same template type parameter.

In the message text:

"%1\$s" is the template parameter. "%2\$s" and "%3\$s" are the two conflicting deduced types.

**User response:** Explicitly specify the template arguments.

CCN5290

The function template parameter "%1\$s" has been found to have two values: "%2\$s" and "%3\$s".

**Explanation:** Template argument deduction has arrived at two equally likely values for the same non-type template parameter.

In the message text:

"%1\$s" is the template parameter. "%2\$s" and "%3\$s" are the two conflicting deduced values.

**User response:** Explicitly specify the template arguments.

CCN5291

The template argument for "%1\$s" cannot be found.

**Explanation:** Template argument deduction has failed. Either nothing matched or there was an ambiguity.

In the message text:

"%1\$s" is the template parameter.

**User response:** Explicitly specify the template argument, or change the template.

CCN5292

Jumping to a %1\$s statement must not enter a try block or handler.

**Explanation:** A case or default statement has been specified in a try block or catch handler that does not also contain the enclosing switch statement.

In the message text:

"%1\$s" is the label.

**User response:** Change the location of case or default statement.

CCN5293

The argument to va\_start must be a parameter name.

**Explanation:** A non-parameter has been specified to va\_start.

**User response:** Change the argument to a parameter name.

CCN5294

An object or reference of type "%2\$s" cannot be initialized with an rvalue of type "%1\$s".

**Explanation:** This object or reference must be initialized with an object.

In the message text:

"%2\$s" is the type of the object. "%1\$s" is the type of the rvalue.

**User response:** Change the type of the object or reference.

CCN5295

A parameter of type "%2\$s" cannot be initialized with an rvalue of type "%1\$s".

**Explanation:** This parameter must be initialized with an object.

In the message text:

"%2\$s" is the type of the parameter. "%1\$s" is the type of the rvalue.

**User response:** Change the type of the parameter.

CCN5296

A return value of type "%2\$s" cannot be initialized with an rvalue of type "%1\$s".

**Explanation:** The return value must be initialized with an object.

In the message text:

" $^{2}$ s" is the return type. " $^{1}$ s" is the type of the rvalue.

**User response:** Change the return type.

The call to "%1\$s" resolves to a function for which multiple default arguments for a given parameter have been specified.

**Explanation:** Function overload resolution has failed. The best match function has been declared in different namespaces with conflicting default arguments.

In the message text:

"%1\$s" is the function call. "%2\$s" is the declaration of the best match function.

**User response:** Two declarations of "%2\$s" in different namespaces have specified default arguments for a given parameter. Only one such declaration may be visible at a point of call using default arguments.

CCN5298 Template argument deduction cannot be performed using the function "%1\$s".

**Explanation:** Argument deduction can only be performed with a function if the set of overloaded functions does not contain a template function.

In the message text:

"%1\$s" is the name of the function.

**User response:** Explicitly specify the template argument or change the template.

CCN5299 The "%1\$s" operator cannot be applied to a pointer to incomplete type: "%2\$s".

**Explanation:** The "%1\$s" operator requires that the type of its operand be defined and not just declared.

In the message text:

"%1\$s" is the operator. "%2\$s" is the incomplete type.

**User response:** Define the type of the operand.

CCN5300 The "private" member "%1\$s" cannot be accessed.

**Explanation:** The member is declared in a private section of the class and cannot be accessed.

In the message text:

"%1\$s" is the member.

**User response:** Change the access of the member.

CCN5301 The "protected" member "%1\$s" cannot be accessed.

**Explanation:** The member is declared in a protected section of the class and cannot be accessed.

In the message text:

"%1\$s" is the member.

**User response:** Change the access of the member or remove the reference.

CCN5302 "%1\$s" is a "private" base class of

**Explanation:** The base class is private and cannot be accessed.

In the message text:

"%1\$s" is the base class. "%2\$s" is the derived class.

**User response:** Change the access of the base class.

CCN5303 "%1\$s" is a "protected" base class of "%2\$s".

**Explanation:** The base class is protected and cannot be accessed.

In the message text:

"%1\$s" is the base class. "%2\$s" is the derived class.

**User response:** Change the access of the base class.

CCN5304 The "private" copy constructor "%1\$s" cannot be accessed to create a temporary object.

**Explanation:** The creation of a temporary object requires access to the copy constructor, but the copy constructor is private.

In the message text:

"%1\$s" is the copy constructor.

**User response:** Change the access of the copy constructor.

CCN5305 The "protected" copy constructor "%1\$s" cannot be accessed to create a temporary object.

**Explanation:** The creation of a temporary object requires access to the copy constructor, but the copy constructor is protected.

In the message text:

"%1\$s" is the copy constructor.

**User response:** Change the access of the copy constructor.

CCN5306 The "private" copy constructor "%1\$s" cannot be accessed.

**Explanation:** Access to the copy constructor is required but the copy constructor is private.

In the message text:

"%1\$s" is the copy constructor.

**User response:** Change the access of the copy constructor.

## CCN5307

The "protected" copy constructor "%1\$s" cannot be accessed.

**Explanation:** Access to the copy constructor is required but the copy constructor is protected.

In the message text:

"%1\$s" is the copy constructor.

**User response:** Change the access of the copy constructor.

## CCN5308

The semantics specify that a temporary object must be constructed.

**Explanation:** Informational message indicating that the semantics of the language require a temporary object to be constructed.

**User response:** See the primary message.

#### CCN5309

The temporary is not constructed, but the copy constructor must be accessible.

**Explanation:** Informational message that the temporary is not constructed as an optimization but the language semantics require that the copy constructor be accessible.

**User response:** See the primary message.

#### CCN5310

The assignment-style initialization of an object of type "%1\$s" with an expression of type "%2\$s" requires access to the copy constructor.

**Explanation:** An assignment-style initialization requires access to the copy constructor, but the parentheses-style initialization does not.

In the message text:

"%1\$s" is the type of the object. "%2\$s" is the type of the expression.

**User response:** Make the assignment operator a friend of the class or use parenthesis-style initialization.

## CCN5311

Access to the copy constructor is not required if parentheses-style initialization is used.

**Explanation:** An assignment-style initialization requires access to the copy constructor, but the parentheses-style initialization does not.

**User response:** Make the assignment operator a friend of the class or use parenthesis-style initialization.

#### CCN5312

"%1\$s" is a "private" base class of "%2\$s". Injected-class-name "%1\$s" is inaccessible.

**Explanation:** The base class is private and cannot be accessed.

In the message text:

"%1\$s" is the base class. "%2\$s" is the derived class.

**User response:** Change the access of the base class.

## CCN5400 "%1\$s" has a conflicting declaration.

**Explanation:** The specified name has already been given a different declaration.

In the message text:

"%1\$s" is the name which has a conflicting declaration

**User response:** Change the name for this declaration, or use the existing declaration.

#### CCN5401 The member "%1\$s" is already declared.

**Explanation:** The member name has already been used in this class. The compiler cannot tell the difference between two members with the same name unless they are both member functions with different parameters.

In the message text:

"%1\$s" is the name of the member.

**User response:** Change the name of the member, or use the existing declaration. If the member name is a member function, modify the parameters to overload the function.

#### CCN5402

The non-static member "%1\$s" must not be defined outside of the class definition.

**Explanation:** Only static members can have a definition outside of the class definition. Non-static members only exist when a object is created from the class.

In the message text:

"%1\$s" is the member.

**User response:** Move the definition of the member inside the class constructor or make the member static.

## CCN5403 "%1\$s" is already defined.

**Explanation:** The specified name has already been defined in another location.

In the message text:

"%1\$s" is the name which has already been defined.

#### CCN5404 • CCN5412

**User response:** Remove one of the definitions for this name, or use another name.

#### CCN5404

The out-of-line member function declaration for "%1\$s" must have a body.

**Explanation:** A member function must be declared inside its class and may be defined either inside its class or outside its class. It may not be redeclared outside its class.

In the message text:

"%1\$s" is the name of the member function.

**User response:** Add the definition for the body of this function.

#### CCN5405

The default arguments for "%1\$s" must not be redefined.

**Explanation:** If there is more than one declaration for the specified function, the default arguments should be given the same values in both.

In the message text:

"%1\$s" is the name of the function.

**User response:** Remove the duplicate declaration, or change the default arguments so that they match.

#### **CCN5406**

The namespace alias "%1\$s" is already defined.

**Explanation:** A namespace alias in a declarative region can only be redefined to denote the same namespace.

In the message text:

"%1\$s" is the namespace alias.

**User response:** Remove or change the namespace alias.

## CCN5407

The base class "%1\$s" contains a circular reference back to "%2\$s".

**Explanation:** A reference in the base class requires that the derived class be complete. There is no way to complete both classes.

In the message text:

"%1\$s" and "%2\$s" are the names of the conflicting classes.

**User response:** Change one of the classes to remove the circularity.

#### CCN5408

The base class "%1\$s" is declared but not defined.

**Explanation:** A base class must be a complete class.

In the message text:

"%1\$s" is the name of the base class.

**User response:** Define the base class before it is used in a base specifier list.

#### CCN5409

"%1\$s" must not be used more than once in the list of base classes.

**Explanation:** Listing the same class twice or more in a base specifier list is not allowed.

In the message text:

"%1\$s" is the name of the duplicate base class.

**User response:** Remove the duplicate base class.

#### CCN5410

The direct base "%1\$s" of class "%2\$s" is ignored because "%1\$s" is also an indirect base of "%2\$s".

**Explanation:** The base class has been specified directly as well as indirectly.

In the message text:

"%1\$s" is the name of the base class. "%2\$s" is the name of the derived class.

**User response:** No response required, but the redundant base class can be removed.

## CCN5411

The default arguments for "%1\$s" are in error.

**Explanation:** A default template argument cannot refer to the template parameter.

In the message text:

"%1\$s" is the template parameter declaration.

**User response:** Correct the default arguments.

## CCN5412

The union "%1\$s" cannot be used as a base class.

**Explanation:** A union must not have, or be used as a base class.

In the message text:

"%1\$s" is the name of the union.

**User response:** Remove the union base specifier or change it to a class.

CCN5413 "%1\$s" is already declared with a different access.

**Explanation:** A member declaration must have only one access.

In the message text:

"%1\$s" is the name of the member.

**User response:** Remove the offending declaration or declare it with the same access.

CCN5414 "%1\$s" is declared differently in the body of function "%2\$s".

**Explanation:** The specified local name has already been given a different declaration.

In the message text:

"%1\$s" is the duplicate local declaration. "%2\$s" is the function containing it.

**User response:** Change the name for this declaration, or remove the conflicting duplicate declaration.

CCN5415 "%1\$s" is already declared with default template arguments.

**Explanation:** A template parameter may not be given default arguments in two different declarations.

In the message text:

"%1\$s" is the name of the template parameter.

**User response:** Remove the default argument on one of the declarations.

CCN5416 "%1\$s" cannot be declared because its name has already been used.

**Explanation:** A member can only be declared once in a class.

In the message text:

"%1\$s" is the member name.

**User response:** Change or remove one of the uses.

CCN5417 The qualified id-declarator "%1\$s" cannot refer to a name introduced by a using declaration.

**Explanation:** The qualified ID collides with a name in a using declaration.

In the message text:

"%1\$s" is the qualified ID.

**User response:** Change the declaration or remove the using declaration.

CCN5418 The definition of "%1\$s" cannot contain an initializer because the initializer was specified in the class definition.

**Explanation:** The out-of-line definition of a static data member can only have an initializer when there is no initializer on the declaration in the class.

In the message text:

"%1\$s" is the data member.

**User response:** Remove one of the initializers.

CCN5419 An exception-specification must be specified as "%1\$s" to match the implicit declaration.

**Explanation:** All declarations of a function including definitions and explicit specializations must have either no exception specification or the same set of types listed in their exception specifications.

In the message text:

"%1\$s" is the exception specification.

**User response:** Correct the exception specification.

CCN5420 "%1\$s" is declared differently than the implicit declaration "%2\$s".

**Explanation:** A duplicate declaration of an implicit declaration is in error.

In the message text:

"%1\$s" is the declaration. "%2\$s" is the implicit declaration.

**User response:** Correct or remove the declaration.

CCN5421 "%1\$s" is declared differently than the internally generated declaration "%2\$s".

**Explanation:** A duplicate declaration of an internal declaration is in error.

In the message text:

"%1\$s" is the declaration. "%2\$s" is the internally generated declaration.

**User response:** Correct or remove the declaration.

CCN5422 "%1\$s" cannot be declared before "%2\$s", and "%2\$s" cannot be declared before "%1\$s".

**Explanation:** Each of the two declarations is coded so that it requires the other declaration first.

In the message text:

"%1\$s" and "%2\$s" are the two declarations.

**User response:** Change the dependence between the two declarations.

CCN5423 The new declaration "%1\$s" cannot be added.

**Explanation:** The IDE is browsing and can't add a new declaration to the code store.

In the message text:

"%1\$s" is the declaration.

**User response:** Reincorporate with the changed source.

CCN5424 "%1\$s" is declared on line %3\$s of "%2\$s".

**Explanation:** An informational message giving the location of a declaration.

In the message text:

"%1\$s" is the declaration. %3\$s is the line number. "%2\$s" is the source.

User response: See the primary message.

CCN5425 "%1\$s" is defined on line %3\$s of "%2\$s".

**Explanation:** An informational message giving the location of a definition.

In the message text:

"%1\$s" is the declaration. %3\$s is the line number. "%2\$s" is the source.

**User response:** See the primary message.

CCN5426 The name "%1\$s" is used on line %3\$s of "%2\$s".

**Explanation:** An informational message giving the location of the use of a name.

In the message text:

"%1\$s" is the name. %3\$s is the line number. "%2\$s" is the source.

User response: See the primary message.

CCN5427 The using declaration introduces "%1\$s" in conflict with a declaration in this scope.

**Explanation:** A using declaration is a declaration, so the restrictions on declaring the same name twice in the same region apply.

In the message text:

"%1\$s" is the declaration in conflict.

**User response:** Remove the using declaration or remove the conflicting declaration.

CCN5428 The using declaration "%1\$s" must not introduce a name into its own scope.

**Explanation:** A using declaration is a declaration, so the restrictions on declaring the same name twice in the same region apply.

In the message text:

"%1\$s" is the using declaration.

**User response:** Remove or change the using declaration.

CCN5429 "%1\$s" must not be repeated at block scope.

**Explanation:** A using declaration is a declaration, so the restrictions on declaring the same name twice in the same region apply (a variable at lexical block scope in this case).

In the message text:

"%1\$s" is the using declaration.

**User response:** Remove the repeated using declaration.

CCN5430 The out-of-line member declaration for "%1\$s" must be in a namespace scope that encloses the class definition.

**Explanation:** The class definition cannot be seen in the scope that the out-of-line member declaration exists.

In the message text:

"%1\$s" is the out-of-line member declaration.

**User response:** Move the out-of-line member declaration into the same scope as its class definition or a scope that encloses its class definition.

CCN5431 The declarator cannot be qualified with the enclosing namespace "%1\$s".

**Explanation:** A nested-name-specifier cannot name any of the namespaces that enclose the member's definition.

In the message text:

"%1\$s" is the namespace declaration.

**User response:** Remove the qualifiers.

CCN5432 The qualified declarator "%1\$s" must refer to an existing declaration.

**Explanation:** When the declarator-id is qualified, the declaration has to refer to a previously declared member of a class or namespace and the member cannot have been introduced by a using declaration already.

In the message text:

"%1\$s" is the qualified declarator.

**User response:** Remove the qualified ID, or add it to the class or namespace.

#### CCN5433

The explicitly specialized template class member "%1\$s" cannot be defined unless the template class is specialized.

**Explanation:** An out-of-line class member definition can only be made for an existing class. A class template explicit specialization is a separate class with different members from the primary template.

In the message text:

"%1\$s" is the explicitly specialized template class member.

**User response:** Write the class template explicit specialization or remove this declaration.

#### CCN5434

The friend function must also be declared in the enclosing block scope.

**Explanation:** If a friend declaration appears in a local class and the name specified is an unqualified name, a prior declaration is looked up without considering scopes that are outside the innermost enclosing non-class scope. For a friend function declaration, if there is no prior declaration, the program is ill-formed.

**User response:** Remove the local friend function or add the declaration to the enclosing block scope.

#### CCN5435

The template "%1\$s" must not be explicitly specialized more than once with the same set of template arguments.

**Explanation:** This is a violation of the one definition rule.

In the message text:

"%1\$s" is the template.

**User response:** Remove the duplicate explicit specialization.

## CCN5436

The template "%1\$s" must not be explicitly instantiated more than once with the same set of template arguments.

**Explanation:** Only one explicit instantiation of a template with the same set of arguments is allowed in a program.

In the message text:

"%1\$s" is the template.

**User response:** Remove the duplicate explicit instantiation.

#### CCN5437

The template "%1\$s" must not be explicitly specialized after explicit instantiation with the same set of template arguments.

**Explanation:** A program cannot have explicit specialization after explicit instantiation of a template with the same set of arguments.

In the message text:

"%1\$s" is the template.

**User response:** Remove either the explicit specialization or the explicit instantiation or change the order.

## CCN5438

The template parameter "%1\$s" must not be redeclared.

**Explanation:** A template parameter can be declared at most once in a template parameter list.

In the message text:

"%1\$s" is the template parameter.

**User response:** Remove or change the template parameter.

#### CCN5439

The template parameters "%1\$s" do not match the parameters for the previous declaration for "%2\$s".

**Explanation:** A redeclaration of a template must agree in the number and type of the template parameters.

In the message text:

"%1\$s" and "%2\$s" are the template parameters.

**User response:** Correct the template parameters.

#### CCN5440

"%1\$s" may have different pass-by-value semantics.

**Explanation:** If you are linking with code from some older compilers, they may use a different set of rules to decide whether a class is passed by value.

In the message text:

"%1\$s" is the declaration. %3\$s is the line number. "%2\$s" is the source.

**User response:** Use pragma pass\_by\_value or, if available, the compiler option which changes pass-by-value semantics.

#### CCN5441

The init\_priority attribute can only be used in objects of class type in namespace scope. The attribute is ignored.

**Explanation:** The attribute is ignored because it is not attached to an object in namespace scope.

#### CCN5442 • CCN5500

**User response:** Remove offending attribute.

CCN5442

Priority values in successive init\_priority attribute specifiers and pragma priority directives must increase.

**Explanation:** Last init\_priority or pragma priority has a lower or equal priority value than the current one.

**User response:** Check previous init\_priority attribute or pragma priority value and make sure that it has a higher priority than current specification.

#### CCN5443

The specified function has already been given a different linkage.

Explanation: Two or more declarations for a function must have matching language linkages if the linkages are specified.

User response: Ensure that the specified language linkages match.

#### CCN5444

The function can only have C++ language linkage specified because the function has already been given C++ linkage.

**Explanation:** A previous declaration did not have a language linkage specification so the only valid language linkage specification is C++.

**User response:** Ensure that the specified language linkages match.

#### CCN5445

The mapped name "%1\$s" for the declaration "%2\$s" conflicts with the existing mapped name "%3\$s".

**Explanation:** An asm label or pragma map conflicts with an existing asm label or pragma map.

In the message text:

"%1\$s" is the new name mapping. "%2\$s" is the declaration being mapped. "%3\$s" is the previous name mapping.

**User response:** Remove the asm label specifier or pragma map.

## **CCN5446**

The template "%1\$s" has already been explicitly specialized with the same arguments. The explicit instantiation has no effect.

Explanation: A explicit instantiation after an explicit specialization with the same arguments is skipped by the compiler as it causes no additional instantiation to take place.

In the message text:

"%1\$s" is the template.

**User response:** This explicit instantiation has no effect and may be removed without changing the program.

#### CCN5447

The entity "%1\$s" is subject to a prior explicit instantiation definition. The prior instantiation is not suppressed.

**Explanation:** The attempt to suppress instantiation only affects implicit instantiation; an explicit instantiation already occurred.

In the message text:

"%1\$s" is the entity for which there was an attempt to suppress instantiation.

User response: To retain the current behaviour, remove the attempt to suppress instantiation.

#### **CCN5448**

The template specialization "%1\$s" has internal linkage. The explicit instantiation declaration is ignored.

**Explanation:** The C++ standard prohibits naming template specializations with internal linkage in an explicit instantiation declaration.

In the message text:

"%1\$s" is the entity named in the explicit instantiation declaration

**User response:** To retain the current behaviour, remove the explicit instantiation declaration.

## **CCN5449**

"inline" used on definition of namespace "std".

**Explanation:** The namespace "std" is used by the C++ standard library and should not be inline.

**User response:** Remove the inline keyword.

#### CCN5450

"inline" used on definition of namespace "%1\$s", which is not inline in its first definition.

**Explanation:** A namespace cannot be made inline after its first definition.

In the message text:

"%1\$s" is the namespace.

User response: Remove the inline keyword or make the namespace inline on its first definition.

## CCN5500

The configuration file "%1\$s" cannot be opened: %2\$s.

**Explanation:** The configuration file could not be opened.

In the message text:

"%1\$s" is the name of the configuration file that could

not be opened. "%2\$s" is the string returned by the operating system when the file open failed.

**User response:** Check the permissions on the configuration file and that it exists.

CCN5501 The directive in the configuration file is not recognized.

**Explanation:** The directive in the configuration file is not recognized.

**User response:** Change the directive.

CCN5502 The build was interrupted.

**Explanation:** The compilation was interrupted and stopped.

**User response:** Start the compile again.

CCN5503 The name is already used in the configuration file.

**Explanation:** The identifier has already been used in the configuration file.

**User response:** Change the name to be another name that is not already used.

CCN5504 The template argument must be a constant integral expression.

**Explanation:** The argument for the template was not an integral constant expression.

**User response:** Change the expression to be an integral constant expression.

CCN5505 The build failed and there are no messages.

**Explanation:** The compiler has experienced an internal failure.

**User response:** Report the problem to your IBM C++ service representative.

CCN5506 The configuration file "%1\$s" is empty.

**Explanation:** The configuration file is empty.

In the message text:

"%1\$s" is the name of the configuration file.

**User response:** Check that the right configuration file has been specified.

CCN5507 The attempt to load "%1\$s" from the default library path failed.

**Explanation:** The dynamic load of the compiler extension failed.

In the message text:

"%1\$s" is the name of the extension that failed to load.

**User response:** Check the tool option on the command line or in the configuration file.

CCN5508

The file "%1\$s" cannot be loaded: the program file is not an ordinary file, or its mode does not allow execution, or search permission is denied on a component of the path prefix.

**Explanation:** The loading of the file failed because of access permissions or it was incorrectly specified.

In the message text:

"%1\$s" is the name of the file.

**User response:** Check the tool option on the command line or in the configuration file.

CCN5509

The file "%1\$s" cannot be loaded: the program file has a valid magic number in its header, but the header is damaged or is incorrect for the machine on which the file is to be run.

**Explanation:** The program could not be loaded because the header for the file is corrupt.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that the file has not been corrupted.

CCN5510

The file "%1\$s" cannot be loaded: too many symbolic links were encountered in translating the path name.

**Explanation:** The file could not be loaded because there were too many symbolic links in the path name.

In the message text:

"%1\$s" is the name of the file.

**User response:** Remove some of the symbolic links in the path name.

CCN5511

The file "%1\$s" cannot be loaded: incorrect XCOFF header or some problems in linking.

**Explanation:** The file could not be loaded because the header is corrupt or improperly linked.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that the file has not been corrupted.

#### CCN5512 • CCN5523

CCN5512

The file "%1\$s" cannot be loaded: the program requires more memory than is allowed by the system.

**Explanation:** The file could not be loaded because it requires too much memory.

In the message text:

"%1\$s" is the name of the file.

User response: Increase the allocated memory to the program.

#### CCN5513

The file "%1\$s" cannot be loaded: the file is currently open for writing by a process.

**Explanation:** The file could not be loaded because it is currently open for writing.

In the message text:

"%1\$s" is the name of the file.

User response: Ensure that the file is not being used by another process and recompile.

#### CCN5514

The file "%1\$s" cannot be loaded: a component of a path name exceeded 255 characters, or an entire path name exceeded 1023 characters.

**Explanation:** The file could not be loaded because the path or some component of the path is too long.

In the message text:

"%1\$s" is the name of the file.

**User response:** Shorten the length of the path or of the component of the path that is too long.

## CCN5515

The file "%1\$s" cannot be loaded: a component of the file name does not exist.

**Explanation:** The file could not be loaded because some component of the name does not exist.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that all directories in the path name exist or change the path for the file.

#### CCN5516

The file "%1\$s" cannot be loaded: a component of the path prefix is not a directory.

**Explanation:** The file could not be loaded because one of the components of the name is not a directory.

In the message text:

"%1\$s" is the name of the file.

**User response:** Change the path so that all components in the path prefix are directories.

#### CCN5517

The file "%1\$s" cannot be loaded: the process root or current directory is located in a virtual file system that has been unmounted.

**Explanation:** The file could not be loaded because the file system is not mounted.

In the message text:

"%1\$s" is the name of the file.

**User response:** Mount the required file system.

#### CCN5518

The file "%1\$s" cannot be loaded: the file name is null.

**Explanation:** The file could not be loaded because the file name is null.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that the file name is not null.

## CCN5519

The file "%1\$s" cannot be loaded: the file cannot be found.

**Explanation:** The file could not be loaded because the could not be found.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that the file exists.

#### CCN5522

The file "%1\$s" cannot be loaded: DosLoadModule return code is %2\$s.

Explanation: The file could not be loaded because of operating system errors.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that the file is correctly specified for the operating system.

## CCN5523

Linkage %1\$s is not known. extern "C" is assumed.

Explanation: The specified linkage is unknown and extern "C" will be used.

In the message text:

%1\$s is the unrecognized linkage.

**User response:** Change the linkage specification.

CCN5524 The file "%1\$s" cannot be loaded.

**Explanation:** The file could not be loaded because of operating system errors.

In the message text:

"%1\$s" is the name of the file.

**User response:** Ensure that the file is correctly specified for the operating system.

CCN5525 The enum cannot be packed to the requested size of %1\$s bytes.

**Explanation:** The range of values specified for the enumeration is too large to be packed into the specified number of bytes.

In the message text:

%1\$s is the number of bytes specified.

**User response:** Change the number of bytes allowed for the enumeration or change the enumerators to have a smaller range.

CCN5526 One or more error messages have been disabled.

**Explanation:** An error was encountered but the error message has been suppressed.

**User response:** Do not suppress the error message or fix the error.

CCN5527

The build failure may be because of an Internal Compiler Error or because a tool failed to generate a message. For more information visit:

http://www.ibm.com/support/docview .wss?uid=swg21110810

**Explanation:** Informational message about why the build failed with no message.

**User response:** Report the problem to your IBM C++ service representative.

CCN5530 Unable to load server rc = %1\$s.

**Explanation:** Call to the DB2 coprocessor API to load the server failed.

In the message text:

%1\$s is the return code from the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5531 Unable to open DBRM file.

**Explanation:** Call to open DBRM file failed.

**User response:** Ensure the file name is correctly

specified.

CCN5532 Unable to initialize SQL coprocessor services: rc = %1\$s.

Explanation: Call to initialize SQL Statement

Coprocessor failed.

In the message text:

%1\$s is the return code from the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5533 Unable to compile SQL statement: rc = %1\$s.

**Explanation:** Call to the DB2 coprocessor API to compile SQL statement failed.

In the message text:

%1\$s is the return code from the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5534 Unrecognized SQL TYPE IS statement.

**Explanation:** The SQL TYPE IS statement is unrecognized.

**User response:** Refer to the DB2 documentation for the cause of the problem and the corrective action.

CCN5535 Unable to terminate services: rc = %1\$s.

**Explanation:** Call to terminate SQL statement coprocessor failed.

In the message text:

%1\$s is the return code from the DB2 coprocessor API call

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5536 Unable to print SQL message: rc = %1\$s.

**Explanation:** Call to extract formatted message for SQLCODE failed.

In the message text:

## CCN5538 • CCN5549

%1\$s is the return code from the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5538 Unable to register host variable:%1\$s, rc = %2\$s.

**Explanation:** Call to register a host variable failed.

In the message text:

%1\$s is the name of the host variable. %2\$s is the return code from the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5539 Compiling with the SQL compiler option resulted in the following

message: %1\$s.

**Explanation:** Call to compile an SQL statement failed.

In the message text:

%1\$s is a diagnostic message emitted by the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and the corrective action.

CCN5540 Unable to find host variable %1\$s.

**Explanation:** The host variable does not exist.

In the message text:

%1\$s is the return code from the DB2 coprocessor API call.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5541 The asm constraint "%1\$s" is not supported.

**Explanation:** The asm operand constraint is not recognized.

In the message text:

"%1\$s" is the letter in the constraint set that is not supported.

**User response:** Remove the constraint.

CCN5542 The asm constraint "%1\$s" cannot be used for this operand type.

**Explanation:** The asm operand constraint is not valid for the provided operand.

In the message text:

"%1\$s" is the letter in the constraint set that is incompatible with the operand type.

**User response:** Remove the constraint or modify the operand to a compatible type.

CCN5543 Too many registers are required in the asm statement.

**Explanation:** The asm statement cannot be compiled because it requires too many registers.

**User response:** Reduce the complexity of the asm statement.

CCN5545 The total number of operands exceeds %1\$s.

**Explanation:** The maximum number of asm operands has been exceeded.

In the message text:

%1\$s is the maximum number of operands an asm statement may have.

**User response:** Reduce the number of operands in the asm instruction.

CCN5546 The operand expression is not a modifiable l-value.

**Explanation:** The operand must be a modifiable l-value.

**User response:** Provide a modifiable l-value output operand.

CCN5548 The symbolic name %1\$s used in an operand specifier is duplicated.

**Explanation:** An operand name specifier has been used more than once.

In the message text:

%1\$s is the duplicated operand name specifier.

**User response:** Select a different operand name specifier for one of the operands.

CCN5549 The named operand "%1\$s" is not defined.

**Explanation:** The operand name specifier does not refer to an operand.

In the message text:

"%1\$s" is the undefined operand name specifier.

**User response:** Change the name specifier to the intended operand.

The output operand is not specified with an "=" or "+" constraint. "=" is assumed.

**Explanation:** An output operand must be specified with an "=" or "+".

**User response:** Add an "=" or "+" to the constraint set for all output operands.

#### CCN5552 The register name "%1\$s" is unknown.

**Explanation:** The register name in the clobber set of the asm statement is not recognized. The clobbered register information is ignored.

In the message text:

"%1\$s" is the unknown register name.

**User response:** Correct the name of the clobbered register.

#### CCN5553 The operand number is out of range.

**Explanation:** The operand number specified does not refer to an operand.

**User response:** Correct the operand number to the intended operand.

# CCN5554 The output constraint "%1\$s" is not at the beginning.

**Explanation:** "=" or "+" is not the first character of the constraint for an output operand.

In the message text:

"%1\$s" is the output operand constraint without a leading "=" or "+".

**User response:** Make "=" or "+" the first character of the constraint for output operands.

# CCN5555 A matching constraint cannot be used in an output operand.

**Explanation:** Matching constraints are not permitted for output operands.

**User response:** Provide the correct constraint for the output operand.

# CCN5556 A matching constraint cannot reference an input operand.

**Explanation:** Matching constraints may not refer to input operands.

**User response:** Provide the correct constraint for the input operand.

# CCN5557 The asm operand does not match the specified constraint.

**Explanation:** The provided operand expression is not valid for the specified constraint.

**User response:** Provide the correct constraint or correct the operand expression.

# CCN5558 The matching constraint "%1\$s" has been used more than once.

**Explanation:** Two matching constraints in an asm statement may not refer to the same operand.

In the message text:

"%1\$s" is the duplicated asm matching constraint.

**User response:** Provide the correct constraint for one of the operands.

# CCN5562 No code is generated for the asm statement. The asm statement is ignored.

**Explanation:** ASM code generation is disabled.

**User response:** Specify the ASM option to enable code generation of asm statements.

# CCN5563 Member function "%1\$s" was not explicitly instantiated with its containing class because the function definition was not found.

**Explanation:** The function must be defined in the same translation unit as the explicit instantiation.

In the message text:

"%1\$s" is the function being instantiated.

**User response:** Define the function in the same translation unit as the explicit instantiation.

# CCN5564 Explicit instantiation requires a function definition in the same translation unit, definitions in a temping definition file

definitions in a tempinc definition file cannot be seen.

**Explanation:** A template must be defined in the same translation unit as the explicit instantiation.

**User response:** The user should not attempt to explicitly instantiate a function defined in the template definition file for tempinc processing.

# CCN5565 The asm constraint "%1\$s" cannot be used for the output operand.

**Explanation:** The asm operand constraint is not valid for the output operand.

In the message text:

"%1\$s" is the letter in the constraint set that is

#### CCN5566 • CCN5577

incompatible with the output operand.

**User response:** Remove the constraint or change it to a compatible constraint for the output operand.

Register variable "%1\$s" cannot be CCN5566 initialized.

**Explanation:** A register variable cannot be initialized since a register does not occupy storage in the object.

In the message text:

"%1\$s" is an identifier.

**User response:** Remove the initializer.

Register "%1\$s" is already used for CCN5567 variable "%2\$s".

**Explanation:** The register has already been reserved for another variable. A register cannot be reserved for multiple variables.

In the message text:

"%1\$s" is a register name and "%2\$s" is an identifier.

**User response:** Use a unique register name for each register variable.

**CCN5569** The specified register name %1\$s is not a valid general purpose register name.

**Explanation:** Only the general purpose register name can be used.

In the message text:

"%1\$s" is the register name.

User response: Specify a valid general purpose register name.

CCN5570 The register %1\$s specified for the variable "%2\$s" is ignored.

**Explanation:** The register variable is supported only when inline assembler support is enabled.

In the message text:

"%1\$s" is the register name. "%2\$s" is the variable name.

**User response:** Specify the inline assembler option to enable inline assembler support.

CCN5571 The operand has the invalid type "%1\$s".

**Explanation:** The type of the operand expression is not valid.

In the message text:

"%1\$s" is the invalid type of the operand.

**User response:** Change the type of the operand if necessary or remove the operand altogether.

CCN5572 The specified register name "%1\$s" is

**Explanation:** The name specified for the asm register is not a valid register on the target architecture.

In the message text:

"%1\$s" is the name of an invalid register.

User response: Use a valid register name.

The constraint "%1\$s" cannot be used on CCN5574 the operand that has the "XL" constraint.

**Explanation:** The operand that has the operand "XL" cannot have any other constraint.

In the message text:

"%1\$s" is the constraint.

**User response:** Remove all the constraints except "XL" and its parameter for the operand that is defined in the asm statement.

CCN5575 Only the output operand can be defined in the asm statement.

**Explanation:** The asm statement is used to define the assembly data. The defined operand cannot be listed in the input operand list.

**User response:** Move the operand that is defined in the asm statement to the output operand list.

**CCN5576** The specified data size "%1\$s" is not valid. The default value "%2\$s" is assumed.

**Explanation:** Only the positive integer number can be used to specify the data size.

In the message text:

"%1\$s" is the data size. "%2\$s" is the default data size, currently 256.

**User response:** Specify the data size with an integer that is greater than 0.

CCN5577 No valid constraint is specified for the operand. The constraint "%1\$s" is assumed.

Explanation: At least one valid constraint needs to be specified for the operand.

In the message text:

"%1\$s" is the constraint.

**User response:** Specify the valid constraint.

The specified register name "%1\$s" is not a valid general purpose register

**Explanation:** Only the general purpose register name can be used.

In the message text:

"%1\$s" is the register name.

**User response:** Specify a valid general purpose register name.

CCN5582

The data type "%1\$s" of variable %2\$s is not suitable for a register.

**Explanation:** A register specification is used for a variable with a data type that cannot be held in a register.

In the message text:

"%1\$s" is a data type. "%2\$s" is an identifier.

**User response:** Remove the register specification for the variable.

CCN5583

The register variable specification is non-portable.

**Explanation:** Using the register variable specification may cause problems when porting the code to another system.

**User response:** Remove the use of the register variable specification.

CCN5584

The type of host variable expression "%1\$s" is not a supported type.

**Explanation:** An invalid host variable expression was specified in an SQL statement.

In the message text:

"%1\$s" is the number of the host variable expression in the statement where 1 is the first expression, 2 is the second, and so on.

**User response:** Refer to the DB2 documentation for the cause of the problem and use a corrective action for the return code.

CCN5585

Variable "%1\$s" cannot be used as a host variable as its type is not supported by DB2.

**Explanation:** The user specified a host variable that is not of a type supported by DB2.

In the message text:

"%1\$s" is the name of the variable.

**User response:** Refer to the DB2 documentation for host variable types that are supported.

CCN5589

An SQL statement that requires conversion to executable code was found in namespace scope.

**Explanation:** SQL statements that result in executable code must be declared in the function scope.

**User response:** Move the SQL statement into the appropriate function scope.

CCN5590

Dereference may not conform to the current aliasing rules.

**Explanation:** The dereferenced expression may violate the ANSI aliasing rules.

**User response:** Change the pointer or reference type to a compatible type.

CCN5591

The dereferenced expression has type "%1\$s". "%2\$s" may point to "%3\$s" which has incompatible type "%4\$s".

**Explanation:** The pointer or reference type is not permitted to point to an object of type "%4\$s".

In the message text:

"%1\$s" is the type of the dereferenced expression. "%2\$s" is the pointer or reference expression. "%3\$s" is the object, which the expression may point to. "%4\$s" is the type of the object pointed to.

**User response:** Change the pointer or reference type to a compatible type.

CCN5592

Check assignment at line %1\$s column %2\$s of %3\$s.

**Explanation:** This message provides a traceback indicating how a pointer or reference may point to an object.

In the message text:

"%1\$s" is the line of the assignment. "%2\$s" is the column of the assignment. "%3\$s" is the file of the assignment.

**User response:** Change the pointer or reference type to a compatible type.

CCN5595

The modifier "%1\$s" cannot be used on the last operand.

**Explanation:** The modifier '%1\$s' can be used any operand other than the last one.

In the message text:

"%1\$s" is the modifier in the asm statement.

**User response:** Remove the modifier '%1\$s' from the last operand.

CCN5596 The constraint "%1\$s" cannot be used on the last operand.

**Explanation:** The constraint "%1\$s" can be used on any operand other than the last one.

In the message text:

"%1\$s" is the constraint in the asm statement.

**User response:** Remove the constraint "%1\$s" from the last operand.

CCN5598 The operand expression is not an l-value.

**Explanation:** The operand must be an l-value.

User response: Provide an l-value output operand.

CCN5600 The reference to "%1\$s" is ambiguous.

**Explanation:** More than one declaration was found for the reference.

In the message text:

"%1\$s" is the ambiguous name.

**User response:** Fully qualify the reference.

CCN5601 The reference to "%1\$s" is ambiguous because "%1\$s" is declared in base classes "%2\$s" and "%3\$s".

**Explanation:** Multiple inheritance has supplied more than one declaration with the same name.

In the message text:

"%1\$s" is the ambiguous reference. "%2\$s" and "%3\$s" are two base classes.

**User response:** Fully qualify the reference, or if it is a template, either change it to a template id, or change the base classes.

CCN5602 The reference to "%1\$s" is ambiguous because "%1\$s" can be accessed via multiple paths to base class "%2\$s".

**Explanation:** Multiple inheritance has resulted in a declaration that can be reached in more than one way through the class hierarchy.

In the message text:

"%1\$s" is the ambiguous reference. "%2\$s" is the base class.

**User response:** Fully qualify the reference or change the base classes.

CCN5603 The template declaration "%1\$s" cannot be found. An extra "template <>" may be specified on this declaration.

**Explanation:** Nested template explicit specializations and out-of-line declarations require a template scope for each level of nesting.

In the message text:

"%1\$s" is the template declaration.

**User response:** Check and correct the template scopes on the declaration.

CCN5700 The previous message was produced while processing "%1\$s".

**Explanation:** An informational message giving trace back information.

In the message text:

"%1\$s" is the declaration (usually a template) that was being processed when the error occurred.

User response: See the primary message.

CCN5701 The limit on nested template instantiations has been exceeded while instantiating "%1\$s".

**Explanation:** A template instantiation that requires another instantiation can set off a chain of instantiations with no end.

In the message text:

"%1\$s" is the last instantiation done.

**User response:** Change the template implementation to avoid the recursion or write an explicit specialization that will stop the instantiation chain at a reasonable point.

CCN5702 The template argument "%1\$s" is not valid.

**Explanation:** The template argument does not match the template parameter.

In the message text:

"%1\$s" is the template argument.

**User response:** Correct the template argument.

CCN5704 The definitions of "%1\$s" and "%2\$s" have the same linkage signature "%3\$s".

**Explanation:** The two definitions have the same mangled names and the linker will be unable to distinguish them.

In the message text:

"%1\$s" and "%2\$s" are the two declarations. "%3\$s" is the linkage signature.

**User response:** Remove one of the definitions or change its linkage.

#### CCN5705

The definition of "%1\$s" has the same linkage signature, "%2\$s", as a symbol from "%3\$s".

**Explanation:** Two definitions have the same mangled names and the linker will be unable to distinguish them.

In the message text:

"%1\$s" is the declaration. "%2\$s" is the linkage signature. "%3\$s" is the library with the conflicting symbol.

**User response:** Remove one of the definitions or change its linkage.

#### CCN5706

The symbol "%1\$s" is already defined by "%2\$s" in target "%3\$s".

**Explanation:** A symbol is being redefined by another compilation unit.

In the message text:

"%1\$s" is the duplicate symbol. "%2\$s" is the source file or source library. "%3\$s" is the target executable, library, or object file.

**User response:** Remove one of the symbols so that only one definition exists.

#### CCN5707

The symbol "%1\$s" has the same signature as "%2\$s" in target "%3\$s".

**Explanation:** A symbol is being redefined by another compilation unit.

In the message text:

"%1\$s" is the duplicate symbol. "%2\$s" is the name of the definition that is resolving to the same symbol as "\$1\$s". "%3\$s" is the target executable, library, or object file to which "%2\$s" belongs.

**User response:** Remove one of the symbols so that only one definition exists.

#### CCN5708

The template argument %1\$s does not match the corresponding template parameter of "%2\$s".

**Explanation:** Template arguments must match the type and kind of the template parameter.

In the message text:

%1\$s is the template argument. "%2\$s" is the template.

**User response:** Correct the template argument.

#### CCN5709

The wrong number of template arguments have been specified for "%1\$s", from line %3\$s of "%2\$s".

**Explanation:** The number of template arguments must match the number of template parameters.

In the message text:

"%1\$s" is the template. "%2\$s" is the source file. %3\$s is the line number.

**User response:** Remove the extra template arguments.

#### CCN5710

The static function "%1\$s" is not defined, but is referenced from "%2\$s".

**Explanation:** A referenced static function must be defined.

In the message text:

"%1\$s" is the static function, "%2\$s" is the referencing location.

**User response:** Define the function.

## CCN5711

Too few template arguments have been specified.

**Explanation:** The number of template arguments must match the number of template parameters.

**User response:** Add the missing template arguments.

## CCN5712

Too many template arguments have been specified.

**Explanation:** The number of template arguments must match the number of template parameters.

**User response:** Remove the extra template arguments.

## CCN5713

The template argument "%1\$s" is not valid for a non-type template parameter.

**Explanation:** A non-type template parameter cannot be satisfied with a type.

In the message text:

"%1\$s" is the invalid argument.

**User response:** Change the template argument to a valid value.

## CCN5714

The template argument must be a type, to match the template parameter.

**Explanation:** Only a type-id can be used for a type template argument.

**User response:** Change the template argument to a valid value.

#### CCN5715 The local type "%1\$s" cannot be used in a template argument.

**Explanation:** A type defined in a function body or any type compounded from a local type cannot be used as a template argument.

In the message text:

"%1\$s" is the local type.

User response: Change the argument to be a non-local type, or move the local type to namespace scope.

#### CCN5716 The template argument "%1\$s" does not match the template parameter "%2\$s".

Explanation: A template parameter must have a template argument and a regular type template parameter cannot have a template as an argument.

In the message text:

"%1\$s" is the invalid argument, "%2\$s" is the template parameter.

**User response:** Change the argument to correctly match the template parameter.

#### CCN5717 The template argument cannot use an unnamed type.

**Explanation:** An unnamed type or any type compounded from an unnamed type cannot be used as a template argument.

**User response:** Change the argument to be a non-local type, or give the type a name.

#### CCN5718 An implicit copy assignment operator cannot be created for class with a member of type "%1\$s".

**Explanation:** The class does not have a user specified copy assignment operator and one cannot be generated because of the type of the members of the class.

In the message text:

The type of the member which prohibits the generation of an implicit copy assignment operator.

**User response:** Provide a copy assignment operator.

#### CCN5719 The previous message was produced while processing the implicit member function "%1\$s".

Explanation: Informational message indicating which implicit member function caused the generation of the error or warning message.

In the message text:

The name of the member function.

**User response:** See the primary message.

#### CCN5720 Function "%1\$s" has internal linkage but is undefined.

**Explanation:** A function was declared to have internal linkage, possibly because it was declared to be static, but it is not defined.

In the message text:

The name of the function that is not defined.

**User response:** Define the function.

#### CCN5721 The template "%1\$s" must not be explicitly specialized after instantiation with the same set of template arguments.

Explanation: A use with no explicit specialization will cause an implicit instantiation. This will conflict with the explicit specialization.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Move the use or the declaration of the explicit specialization.

#### CCN5722 The partial specialization "%1\$s" must be declared before it is used.

**Explanation:** A use with no partial specialization will cause an implicit instantiation of the primary template. This will give different behavior than an instantiation of the partial specialization.

In the message text:

"%1\$s" is the partial specialization.

**User response:** Move the use or the declaration of the partial specialization.

#### The inline function "%1\$s" is CCN5723 referenced, but it is not defined.

**Explanation:** A referenced inline function must be defined.

In the message text:

"%1\$s" is the inline function.

**User response:** Define the function.

#### The non-type template argument "%1\$s" CCN5724 of type "%2\$s" has wrapped.

**Explanation:** A non-type template argument has been provided that is outside the range for the argument

In the message text:

"%1\$s" is the argument value and "%2\$s" is its type.

**User response:** If this is not intended, change the argument value.

CCN5725 The physical size of an array is too large.

**Explanation:** The maximum allowable size for this target system has been exceeded.

**User response:** Reduce the size of the array.

CCN5726 The physical size of a class or union is too large.

**Explanation:** The maximum allowable size for this target system has been exceeded.

**User response:** Reduce the size of the class or union.

CCN5727 The static storage is too large.

**Explanation:** A limit on static storage has been exceeded.

**User response:** Decrease the amount of storage required.

CCN5728 The keyword \_Packed must be used in a typedef.

**Explanation:** The \_Packed type specifier can only be used in a typedef declaration.

**User response:** Use \_Packed in a typedef declaration to declare the \_Packed class type, then use the typedef name to declare the variable.

CCN5729 The keyword \_Packed must be associated with a class definition.

**Explanation:** The \_Packed specifier is only valid on a typedef declaration with a class definition.

**User response:** Define the \_Packed class type in the typedef declaration.

CCN5730 Alias specification cannot be provided for a function definition.

**Explanation:** Alias specification can only be provided for a function declaration.

**User response:** Remove alias specification from the indicated function definition.

CCN5731 The external name "%1\$s" must not conflict with the name in #pragma csect or the csect name generated by the compiler.

**Explanation:** The external name specified is identical to the name specified on a #pragma csect or the name generated by the CSECT option.

In the message text:

"%1\$s" is the external name in conflict.

**User response:** Change the name on the #pragma csect, turn off the CSECT option, or change the external name.

CCN5732 The declarations "%1\$s" and "%2\$s" have the same linkage signature "%3\$s".

**Explanation:** A symbol should only be accessed through a single declaration in a translation unit.

In the message text:

"%1\$s" is the first declaration of the conflicting pair.
"%2\$s" is the second declaration of the conflicting pair.
"%3\$s" is the linkage signature of the two declarations.

**User response:** Remove one of the offending declarations.

CCN5800 The conversion from code page "%1\$s" to "%2\$s" cannot be initialized.

**Explanation:** The specified code page does not exist.

In the message text:

"%1\$s" is the source code page. "%2\$s' is the target code page.

**User response:** Change the specified code page to a valid one.

CCN5801 The character literal is empty.

**Explanation:** The character literal is invalid because it is empty.

**User response:** Change the character literal.

CCN5802 The character literal %1\$s contains more than one character.

**Explanation:** The character literal is invalid because it has more than one character.

In the message text:

"%1\$s" is the character literal in error.

**User response:** Change the character literal to a single character.

CCN5803 The value of the character literal %1\$s contains more bytes than sizeof(int).
Only the right-most bytes are retained.

**Explanation:** The character literal is invalid because it has too many bytes. The extra bytes to the left are ignored.

In the message text:

"%1\$s" is the character literal in error.

#### CCN5804 • CCN5815

**User response:** Change the character literal.

CCN5804 The characters "/\*" are detected in a comment.

Explanation: The start of what may be a comment has been seen inside a comment. The first string "\*/" will finish the comment which may result in unexpected behavior if this truly is a nested comment.

**User response:** Remove the nested comment or the string "/\*" from the comment.

CCN5805 Division by zero occurs on the "#%1\$s" directive.

**Explanation:** An attempt was made to divide by zero in a preprocessor directive.

In the message text:

"%1\$s" is the preprocessor directive in the source code.

**User response:** Change the preprocessor directive to not divide by zero.

**CCN5806** The parameter "%2\$s" has already been used for the macro "%1\$s".

**Explanation:** The same identifier has been used for more than one parameter for a macro.

In the message text:

"%1\$s" is the name of the preprocessor macro in error. "%2\$s" is the reused parameter from the macro in error.

**User response:** Change the parameter name.

CCN5807 The #elif directive has no matching #if, #ifdef, or #ifndef directive.

**Explanation:** The #elif directive requires a previous #if, #ifdef, or #ifndef. It may be that a #endif was added inappropriately.

**User response:** Remove the #elif directive.

**CCN5808** The #else directive has no matching #if, #ifdef, or #ifndef directive.

**Explanation:** The #else directive requires a previous #if, #ifdef, or #ifndef. It may be that a #endif was added inappropriately.

**User response:** Remove the #else directive.

CCN5809 The source file is empty.

**Explanation:** Informational message indicating that the source file contains no preprocessing tokens.

User response: See the primary message.

CCN5810 An empty argument is specified for parameter "%2\$s" of the macro "%1\$s".

**Explanation:** The argument specified to the macro is

empty.

In the message text:

"%1\$s" is the name of the macro. "%2\$2" is the parameter receiving the empty argument.

User response: Change the argument.

The #endif directive has no matching CCN5811 #if, #ifdef, or #ifndef directive.

**Explanation:** The #endif directive requires a previous #if, #ifdef, or #ifndef. It may be that a #endif was added inappropriately.

**User response:** Remove the #endif directive.

The escape sequence "%1\$s" is out of CCN5812 range. Value is truncated.

**Explanation:** The specified escape sequence is not

valid.

In the message text:

"%1\$s" is the escape sequence from the source code.

**User response:** Change the escape sequence.

CCN5813 One or more #endif directives are missing at the end of the file.

**Explanation:** There must be a #endif for every #if, #ifdef, or #ifndef. It may be that a #endif was removed inappropriately.

**User response:** Add the missing #endif.

CCN5814 Expecting a macro name on the #%1\$s directive but found "%2\$s".

Explanation: The text specified for the macro name is invalid.

In the message text:

"%1\$s" is the preprocessor directive. "%2\$s" is the text found where the macro name was expected.

**User response:** Change the text for the macro name.

CCN5815 Expecting the end of the line on the #%1\$s directive but found "%2\$s".

**Explanation:** The end of line that was expected to terminate the preprocessing directive was not found.

In the message text:

"%1\$s" is the preprocessor directive. "%2\$s" is the unexpected input.

**User response:** Change the preprocessing directive.

**CCN5816** Too many arguments are specified for the macro "%1\$s". The extra arguments

are ignored.

**Explanation:** The extra arguments specified for the macro are ignored.

In the message text:

"%1\$s" is the name of the macro.

**User response:** Remove the extra arguments.

CCN5817 The comment which began on line %1\$s did not end before the end of the file.

Explanation: The "\*/" ending the comment was not found before the end of the file.

In the message text:

"%1\$s" is the line number on which the comment began.

**User response:** Add "\*/" to finish the comment.

CCN5818 The continuation sequence at the end of the file is ignored.

**Explanation:** End of file is unexpected after the continuation sequence.

**User response:** Remove the continuation sequence.

CCN5819 Unable to open the file %1\$s. %2\$s.

Explanation: The file could not be opened because of the reason indicated.

In the message text:

"%1\$s" is the file name that could not be opened. "%2\$s" is the text returned by the system when the file open failed.

**User response:** Ensure that the file can be opened.

CCN5820 Unable to read the file %1\$s. %2\$s.

**Explanation:** The file could not be read because of the reason indicated.

In the message text:

"%1\$s" is the file name that could not be opened. "%2\$s" is the text returned by the system when the file open failed.

**User response:** Ensure that the file exists and can be read.

CCN5821 The floating point literal "%1\$s" is out

of range.

**Explanation:** The floating point literal is not valid.

In the message text:

"%1\$s" is the incorrect literal.

**User response:** Change the floating point literal.

CCN5822 The name "%1\$s" must not be defined as a macro.

**Explanation:** The name cannot be used as a macro.

In the message text:

"%1\$s" is the name of the reserved macro name.

**User response:** Change the name of the macro.

CCN5823 The name "%1\$s" must not be undefined as a macro.

**Explanation:** The name cannot be undefined as a

macro.

In the message text:

"%1\$s" is the name of the reserved macro name.

**User response:** Change the name of the macro.

CCN5824 The header of the #include directive is empty.

**Explanation:** The #include directive is improperly

specified.

**User response:** Change the #include specification.

The character "%1\$s" is not allowed. CCN5825

**Explanation:** The character is not valid.

In the message text:

"%1\$s" is the character.

**User response:** Change the character.

CCN5826 The use of the ## operator in the macro "%1\$s" is not valid.

**Explanation:** The use of the ## operator is not valid.

In the message text:

"%1\$s" is the name of the macro in error.

**User response:** Change the ## operator.

#### CCN5827 • CCN5837

CCN5827

The constant expression on the #%1\$s directive contains a syntax error at "%2\$s".

**Explanation:** There is a syntax error in the constant expression.

In the message text:

"%1\$s" is the preprocessor directive. "%2\$s" is the token that is causing the syntax error.

**User response:** Fix the syntax of the constant expression.

CCN5828

The escape sequence "%1\$s" is not known. The backslash is ignored.

**Explanation:** The escape sequence is not valid and the backslash is ignored.

In the message text:

"%1\$s" is the escape sequence.

**User response:** Remove the backslash or change the escape sequence to a valid one.

CCN5829

The suffix of the floating point literal "%1\$s" is not valid.

**Explanation:** The floating point literal is improperly specified.

In the message text:

"%1\$s" is the floating point literal.

**User response:** Change the floating point literal.

CCN5830

The suffix of the integer literal "%1\$s" is not valid.

**Explanation:** The integer literal is improperly specified.

In the message text:

"%1\$s" is the floating point literal.

**User response:** Change the integer literal.

CCN5831

The parameter list for the macro "%1\$s" contains a syntax error at "%2\$s".

**Explanation:** There is a syntax error in the parameter list for the macro.

In the message text:

"%1\$s" is the name of the macro. "%2\$s" is the token that is causing the syntax error.

**User response:** Fix the syntax error in the parameter list.

CCN5832

The value, "%1\$s", of the wide character

is not valid.

**Explanation:** The value of the wide character is not

valid.

In the message text:

"%1\$s" is the value of the wide character.

User response: Change the value of the wide

character.

CCN5833

The multibyte character "%1\$s" is unknown.

**Explanation:** The multibyte character is unknown.

In the message text:

"%1\$s" is the multibyte character in error.

**User response:** Change the multibyte character.

CCN5834

A header name is expected on the #include directive but "%1\$s" is found.

**Explanation:** The #include directive is not valid.

In the message text:

"%1\$s" is the unexpected text found.

**User response:** Change the #include directive.

CCN5835

The file "%1\$s" cannot be included because the maximum nesting of %2\$s has been reached.

**Explanation:** The maximum number of nested include files has been reached.

In the message text:

"%1\$s" is the file name. "%2\$s' is the maximum include file nesting limit for the compiler.

**User response:** Remove some of the included files or change the include structure to not nest as deeply.

CCN5836

The #include file %1\$s is not found.

**Explanation:** The specified include file was not found.

In the message text:

"%1\$s" is the file name.

**User response:** Ensure that the file exists, change the name of the included file, or use the include path option to specify the path to the file.

CCN5837

An incomplete argument is specified for the parameter "%2\$s" of the macro "%1\$s".

**Explanation:** The argument to the macro is invalid.

In the message text:

"%1\$s" is the name of the macro. "%2\$s" is the macro parameter.

**User response:** Change the argument to the macro.

CCN5838 An incomplete parameter list is specified for the macro "%1\$s".

**Explanation:** The parameter list to the macro is incomplete.

In the message text:

"%1\$s" is the macro name.

User response: Change the parameter list.

CCN5839 Preprocessor internal error in "%1\$s". File "%2\$s": Line %3\$s.

**Explanation:** An internal error has occurred in the preprocessor.

In the message text:

"%1\$s" is the name of the compiler function at the time of the error. "%2\$s" is the source file that was being processed at the time of the error. "%3\$s" is the line number that was being processed at the time of the error

**User response:** Contact your IBM C++ service representative.

CCN5840 The integer literal "%1\$s" is out of range.

**Explanation:** The integer literal is not valid.

In the message text:

"%1\$s" is the integer literal that is out of range.

**User response:** Change the integer literal.

CCN5841 The wide character literal %1\$s contains more than one character. The last character is used.

**Explanation:** More than one character has been specified for a wide character literal.

In the message text:

"%1\$s" is the literal.

**User response:** Remove the extra characters from the wide character literal.

CCN5842 The line number %1\$s on the #line directive must contain only decimal digits.

**Explanation:** The #line directive contains an invalid number.

In the message text:

"%1\$s" is the invalid line number specified in the #line directive.

**User response:** Change the number in the #line directive or remove the #line directive.

CCN5843 Expecting a file name or the end of line on the #line directive but found "%1\$s".

**Explanation:** The #line directive is invalid.

In the message text:

"%1\$s" is the unexpected text.

**User response:** Remove the extra symbols from the #line directive.

CCN5844 Expecting a line number on the #line directive but found "%1\$s".

**Explanation:** The line number specified in the #line directive is invalid.

In the message text:

"%1\$s" is the unexpected text.

**User response:** Change the #line directive.

CCN5845 The #line value "%1\$s" must not be zero.

**Explanation:** The line number for a #line directive must not be zero.

In the message text:

"%1\$s" is the invalid value specified in the #line directive.

**User response:** Change the line number for the #line directive.

CCN5846 The #line value "%1\$s" is outside the range 1 to 32767.

**Explanation:** The line number for a #line directive is too large.

In the message text:

"%1\$s" is the invalid value specified in the #line directive.

**User response:** Change the line number for the #line directive.

CCN5847 Expected an identifier but found "%2\$s" in the parameter list for the macro "%1\$s".

**Explanation:** The parameter to the macro is invalid.

In the message text:

#### CCN5848 • CCN5862

"%1\$s" is the macro name. "%2\$s" is the unexpected text found.

**User response:** Change the parameter to the macro.

CCN5848 The macro name "%1\$s" is already defined with a different definition.

**Explanation:** An attempt is being made to redefine the macro.

In the message text:

"%1\$s" is the macro name.

**User response:** Change the name of the macro being defined.

CCN5849 The octal literal "%1\$s" contains non-octal digits.

**Explanation:** The octal literal can only contain the digits 0-7.

In the message text:

"%1\$s" is the octal literal.

**User response:** Change the literal.

CCN5850 Expecting "(" on the #%1\$s directive, but found "%2\$s"

**Explanation:** The "(" that was expected following the preprocessing directive was not found.

In the message text:

"%1\$s" is the preprocessor directive. "%2\$s" is the unexpected input.

User response: Change the preprocessing directive.

CCN5851 The #line directive has no effect.

**Explanation:** The context for the #line directive gives it no additional meaning.

**User response:** Delete the #line directive.

CCN5852 The #line value "%1\$s" is outside the range 1 to 2147483647.

**Explanation:** The line number for a #line directive is too large.

In the message text:

"%1\$s" is the invalid value specified in the #line directive.

**User response:** Change the line number for the #line directive.

CCN5857 The macro name "%1\$s" is reserved but the directive is processed.

**Explanation:** The macro name is a reserved name.

In the message text:

"%1\$s" is the macro name.

**User response:** Change the name of the macro.

CCN5858 The macro name "%1\$s" is reserved but the directive is processed.

**Explanation:** The macro name is a reserved name.

In the message text:

"%1\$s" is the macro name.

**User response:** Change the name of the macro to one that is not reserved.

CCN5859 #error directive: %1\$s.

**Explanation:** A #error directive has been processed.

In the message text:

"%1\$s" is the text that was specified by the #error directive in the source.

**User response:** Remove the #error directive.

CCN5860 A parameter name is expected after the # operator in the macro "%1\$s" but "%2\$s" is found.

**Explanation:** The right operand to the # operator is invalid.

In the message text:

"%1\$s" is the macro name. "%2\$s" is the unexpected toxt

**User response:** Change the right operand to the # operator.

CCN5861 Too few arguments are specified for macro "%1\$s". Empty arguments are used.

**Explanation:** Not enough arguments have been specified for the macro.

In the message text:

"%1\$s" is the macro name.

**User response:** Add more arguments to the macro.

CCN5862 The unknown preprocessing directive "%1\$s" is ignored.

**Explanation:** The preprocessing directive is unknown.

In the message text:

"%1\$s" is the unknown directive.

**User response:** Change the preprocessing directive.

CCN5863 A character literal must end before the

end of the source line.

**Explanation:** The character literal is improperly

specified.

**User response:** Change the character literal.

CCN5864 A #include header must end before the

end of the source line.

**Explanation:** The #include directive is improperly

specified.

**User response:** Change the #include directive.

CCN5865 A character literal must end before the

end of the source line.

**Explanation:** The character literal is improperly

specified.

**User response:** Change the character literal.

CCN5866 A string literal must end before the end

of the source line.

**Explanation:** The string literal is improperly specified.

**User response:** Change the string literal.

CCN5868 A string literal must end before the end

of the source line.

**Explanation:** The string literal is improperly specified.

**User response:** Change the string literal.

CCN5869 %1\$s digits are required for the universal character name "%2\$s".

**Explanation:** Universal character names must follow the format \UNNNNNNN or \uNNNN, where N is

a hexadecimal digit.

In the message text:

"%1\$s" is an integer and "%2\$s" is a universal character

**User response:** Either pad or truncate the digits used for the universal character name.

CCN5870 The universal character name "%1\$s" is not in the allowable range for an

identifier.

**Explanation:** Hexadecimal values representing characters in the basic character set (base source code set) and the code points reserved by ISO/IEC 10646 for control characters are not allowed. The following

characters are also disallowed: (1) Any character that has a short identifier that is less than 00A0. The exceptions are 0024 (\$), 0040 (@), or 0060 (`). (2) Any character that has a short identifier that is in the code point range D800 through DFFF inclusive.

In the message text:

"%1\$s" is a universal character name.

**User response:** Change the universal character name to an allowable one.

CCN5871 Incomplete or invalid multibyte character, conversion failed.

**Explanation:** The multibyte character is invalid.

**User response:** Change the multibyte character.

CCN5872 A string literal cannot be longer than

32765 characters.

**Explanation:** The string literal is too long.

**User response:** Change the string literal.

CCN5873 Syntax error in \_Pragma operator:
"%1\$s" was expected but "%2\$s" was

found. The pragma is ignored.

**Explanation:** A syntax error has occurred and the first unexpected token is "%1\$s". The only valid token at this point is "%2\$s".

In the message text:

"%2\$s" is the invalid text. "%1\$s" is expected correct text.

**User response:** Change the incorrect token to the expected one.

CCN5874 An #include\_next directive is found in a primary source file.

**Explanation:** The #include\_next directive should only be used in the header files.

**User response:** Change the #include\_next to an #include.

CCN5875 A header name is expected in the #include\_next directive but "%1\$s" is found.

**Explanation:** No header file name is provided after the #include\_next directive.

In the message text:

"%1\$s" is the unexpected text found.

**User response:** Specify the header file name. Enclose the system header names in angle brackets and the user header names in double quotes.

CCN5876 An #include\_next header must end before the end of the source line.

**Explanation:** An #include\_next directive was specified across two or more lines.

**User response:** Change the #include\_next directive so that it and its arguments are contained on a single line.

CCN5877 The #include\_next file %1\$s is not found

**Explanation:** The file specified in the #include\_next directive cannot be found. See the documentation for the file search order.

In the message text:

%1\$s is the file name.

**User response:** Ensure that the file exists. Change the name of the included file or use the include path option to specify the path to the file.

CCN5878 The header file name in the #include\_next directive is empty.

**Explanation:** The header file name in the #include\_next directive should not be empty.

**User response:** Specify a non-empty header file name in the #include next directive.

CCN5879 #warning directive: %1\$s.

**Explanation:** A #warning directive has been processed.

In the message text:

"%1\$s" is the text that was specified by the #warning directive in the source.

**User response:** Remove the #warning directive.

CCN5880 The invalid character "%1\$s" was found in a wide character or wide string literal. The character will be ignored.

**Explanation:** The wide character or wide string literal contains an invalid character that will be ignored.

In the message text:

"%1\$s" is the invalid character.

**User response:** Remove the character.

CCN5881 The pragma GCC system\_header directive is only permitted in an include file. The pragma will be ignored.

**Explanation:** The pragma should not be used in the primary source file so it will be ignored.

User response: Remove the pragma.

CCN5882 Expected ')' but found "%2\$s" in the parameter list for the macro "%1\$s".

**Explanation:** A variable argument parameter cannot appear anywhere but the end of a parameter list.

In the message text:

"%1\$s" is the macro name. "%2\$s" is the unexpected text found.

**User response:** Move the variable argument parameter to the end of the parameter list.

CCN5883 Use of \_\_VA\_ARGS\_\_ in macro "%1\$s" is unexpected; expected "%2\$s".

**Explanation:** The ISO C99 variable argument identifier \_\_VA\_ARGS\_\_ has been used in a GNU variadic macro.

In the message text:

"%1\$s" is the macro name. "%2\$s" is the variable argument parameter identifier.

User response: Replace \_\_VA\_ARGS\_\_ with "%2\$s".

CCN5884 The GNU variable argument identifier "%2\$s" of macro "%1\$s" is not permitted in the current langlyl mode.

**Explanation:** Possibly missing ',' or a GNU variable argument identifier has been specified in an illegal langlyl mode.

In the message text:

"%1\$s" is the macro name. "%2\$s" is the variable argument parameter identifier.

**User response:** Set the langlyl option appropriately.

CCN5885 The universal character is out of range for this platform.

**Explanation:** This platform only supports valid universal characters less than \u0100.

**User response:** Provide a valid universal character.

CCN5886 The universal character "%1\$s" is not valid.

**Explanation:** The universal character is out of the allowable ranges.

In the message text:

"%1\$s" is the invalid character.

**User response:** Provide a valid universal character.

The hexadecimal literal "%1\$s" is not

**Explanation:** The hexadecimal literal is incomplete or contains an invalid hex character.

In the message text:

"%1\$s" is the invalid hexadecimal literal.

**User response:** Provide a valid hexadecimal literal.

**CCN5888** 

The current option settings do not allow the use of "long long". The suffix of the integer literal "%1\$s" is not valid.

**Explanation:** The suffix of the integer literal is "LL", but this is disallowed due to option settings.

In the message text:

"%1\$s" is the integer literal.

**User response:** Delete the integer suffix or change the option settings to allow "long long".

**CCN5889** 

No arguments have been provided for the variable argument parameter of macro "%1\$s". Empty arguments are used.

**Explanation:** Not enough arguments have been specified for the macro.

In the message text:

"%1\$s" is the macro name.

**User response:** Add more arguments to the macro.

CCN5891

Missing white space between the identifier "%1\$s" and the replacement list.

**Explanation:** C++0x requires white space to seperate the identifier and its replacement list in the definition of an object-like macro.

In the message text:

"%1\$s" is the identifier.

User response: Add white space after the identifier.

CCN5892

The preprocessor controlling expression evaluates differently between C++0x and non-C++0x langlvls.

**Explanation:** Note that the arithmetic changes in C++0x preprocessor may have different evaluations of the conditional inclusion directives.

**User response:** Add explicit suffix to the constant if necessary.

CCN5893

The header file name "%1\$s" in the #include directive shall not start with a digit.

**Explanation:** C++0x requires that the first character of a header file name to be non-digit.

In the message text:

"%1\$s" is the header file name.

**User response:** Rename the header if possible.

CCN5894

Keyword "%1\$s" has a different meaning in non-C++0x language levels than under C++0x.

**Explanation:** Note that this keyword's functionality will change under C++0x.

In the message text:

%1\$s is keyword name.

**User response:** If you are using C++0x language level mode, please refer to documentation for usage of this keyword.

CCN5895

The character "%1\$s" has been truncated.

**Explanation:** The underlying type of wchar\_t cannot hold the specified character.

In the message text:

"%1\$s" is the character from the source code.

**User response:** Change the character or increase the size of the wchar\_t type by compiling in 64-bit mode.

CCN5900

#include search attempted to open the file "%1\$s".

**Explanation:** Informational message about the search path when attempting to find an include file.

In the message text:

"%1\$s" is the file name.

User response: See the primary message.

CCN5901

The expression on the #%1\$s directive evaluates to %2\$s.

**Explanation:** Informational message about the condition directive value.

In the message text:

"#%1\$s" is the directive name. "%2\$s" is either 1 or 0. If the expression on the #%1\$s is defined or evaluates to True, "%2\$s" is 1; 0 otherwise.

**User response:** See the primary message.

CCN5902 The nesting level of the #%1\$s directive is %2\$s.

**Explanation:** Informational message about the conditional nesting level.

In the message text:

"#%1\$s" is the directive name. "%2\$s" is an integer, starting from 1. It indicates the nesting level of the condition directive #%1\$s.

User response: See the primary message.

CCN5903 defined(%1\$s) evaluates to %2\$s.

**Explanation:** Informational message about the defined value.

In the message text:

"%1\$s" is the directive name. "%2\$s" is either 1 or 0. If %1\$s is defined, %2\$s is 1; %2\$s is 0 otherwise.

User response: See the primary message.

CCN5904 Token skipping due to conditional compilation begins here.

**Explanation:** Informational message about token skipping due to conditional compilation.

User response: See the primary message.

CCN5905 Token skipping due to conditional compilation ends here.

**Explanation:** Informational message about token skipping due to conditional compilation.

User response: See the primary message.

CCN5921 "%1\$s" is defined in the file "%2\$s" on line %3\$s.

**Explanation:** Informational message about where a macro is defined.

In the message text:

"%1\$s" is the macro name. "%2\$s" is the file name. "%3\$s" is the line number.

User response: See the primary message.

CCN5922 #include\_next search attempted to open the file "%1\$s".

**Explanation:** Informational message about the search path when attempting to find an include file.

In the message text:

"%1\$s" is the file name.

**User response:** See the primary message.

CCN5923

There is a #pragma extension without a matching #pragma extension (pop) in the same file. The "pop" has been inserted by the compiler at the end of the file.

**Explanation:** A #pragma extension should always have a matching #pragma extension (pop).

**User response:** Insert a #pragma extension (pop) to match the #pragma extension.

**CCN6086** 

The initializer list in the compound literal expression must be a constant expression.

**Explanation:** If a compound literal expression is used outside a function body, its initializer list must be a constant expression.

**User response:** Change the initializer list to a constant expression.

CCN6087 The catch block(s) has no effect.

**Explanation:** The NOEXH option indicates that no exception will be thrown.

**User response:** Don't use NOEXH option or don't use catch blocks in the program.

CCN6088

The exception specification is being ignored.

**Explanation:** The NOEXH option indicates that no exception will be thrown.

**User response:** Don't use NOEXH option or don't use exception specification.

CCN6089 The throw expression is being ignored.

**Explanation:** The NOEXH option indicates that no exception will be thrown.

**User response:** Don't use NOEXH option or don't use throw expression.

CCN6090

The destructor(s) of "%1\$s" might not be called if an exception is thrown.

**Explanation:** The NOEXH option does not prevent exceptions from other translation units; stack unwinding will fail to call the destructor(s).

In the message text:

"%1\$s" is the object.

**User response:** Don't use NOEXH option or ensure that the object will not be subject to stack unwinding.

The friend declaration "%1\$s" specifies a default argument expression and is not a definition.

**Explanation:** If a friend declaration specifies a default argument expression, that declaration must be a definition.

In the message text:

"%1\$s" is the name of the function.

**User response:** Add the definition with the function declaration.

#### CCN6092

The declaration "%1\$s" is also declared as a friend with a default argument expression in file "%2\$s", on %3\$s.

**Explanation:** If a friend declaration specifies a default argument expression, that declaration shall be the only declaration of the function or function template in the translation unit.

In the message text:

"%1\$s" is the name of the function, "%2\$s" is the file name, "%3\$s" is the line and column number where the friend function is declared.

**User response:** Remove the default argument or move it to the non-friend declaration.

## CCN6093

The throw expression has no effect since exception handling is unsupported.

**Explanation:** The current platform does not support exception handling.

**User response:** Do not use the throw expression.

#### CCN6099

The value "%1\$s" specified on pragma "%2\$s" is not a valid architecture level. The pragma is ignored.

**Explanation:** A valid architecture level is required on this pragma.

In the message text:

"%1\$s" is the architecture level. "%2\$s" is the name of the pragma.

**User response:** Correct the architecture level or remove the pragma.

## CCN6100

A local variable or compiler temporary variable is being used to initialize reference member "%1\$s".

**Explanation:** Initializing a reference member with a temporary or local variable is dangerous since it will result in a dangling reference if the object's life-span is longer than the temporary or local variable.

In the message text:

"%1\$s" is the reference member.

**User response:** Initialize the member with another object.

## CCN6101

A return value of type "%1\$s" is expected.

**Explanation:** The function is expected to return a value but no return statement is given.

In the message text:

"%1\$s" is the expected type.

**User response:** Add a return statement to the function.

#### CCN6102

"%1\$s" might be used before it is set.

**Explanation:** The compiler cannot determine that the variable is initialized before it is used.

In the message text:

"%1\$s" is the variable.

**User response:** Initialize the variable.

#### CCN6103

The address of a local variable or temporary is used in a return expression.

**Explanation:** The address of a local object is being returned by the function but this object's life-span will end at the function return, resulting in a dangling reference.

**User response:** Return a different value.

## CCN6104

The condition evaluates to a constant value.

**Explanation:** The condition is a constant expression which may result in code that can never be reached or a loop that may not terminate.

**User response:** Change the condition to be non-constant.

## CCN6105

The condition contains a non-parenthesized assignment.

**Explanation:** An assignment is being performed in a condition.

**User response:** Change the expression; this warning is often caused by an assignment being used when an equality comparison is desired.

## CCN6106 • CCN6116

**CCN6106** 

The local type "%1\$s" must not be used in a declaration with external linkage.

**Explanation:** The function has external linkage but is using a local type so the linkage signature of the function cannot be described.

In the message text:

"%1\$s" is the type used in the source code declaration.

**User response:** Use a non-local type in the function prototype.

**CCN6107** 

An object of abstract class "%1\$s" cannot be created.

**Explanation:** The class has pure virtual functions so an object of this class type cannot be created.

In the message text:

"%1\$s" is the class.

**User response:** Ensure that the class contains no pure virtual functions.

CCN6108

"%1\$s" is not a valid type.

**Explanation:** The specified type is not a legal type.

In the message text: "%1\$s" is the type.

**User response:** Change the type.

CCN6109

The use of undefined class "%1\$s" is not valid

**Explanation:** The use requires that the type be defined and not just declared.

In the message text:

"%1\$s" is the class.

**User response:** Define the class.

CCN6110

The referenced type "%1\$s" contains a circular reference back to "%2\$s".

**Explanation:** The two types contain references to each other that both require definitions.

In the message text:

"%1\$s" and "%2\$s" are the types in question.

**User response:** Change the first class to only require a declaration of the second class.

CCN6111

Only function declarations can have default arguments.

**Explanation:** An attempt has been made to have default arguments for a parameter in a declaration that

is not a function declaration.

**User response:** Remove the default initializers.

CCN6112 "%1\$s

"%1\$s" is a pure virtual function.

**Explanation:** Informational message for listing pure

virtual functions.

In the message text:

"%1\$s" is the name of the function.

User response: See the primary message.

CCN6113

The class template name "%1\$s" must be followed by a < in this context.

**Explanation:** The template must have its template arguments specified.

In the message text:

"%1\$s" is the name of the template class.

**User response:** Add the < and the appropriate template arguments followed by >.

CCN6114

"%1\$s" is not allowed as a function return type.

**Explanation:** The return type of the function is not

valid

In the message text:

"%1\$s" is the type that the function is attempting to

return

**User response:** Change the function return type.

CCN6115

"%1\$s" cannot be declared to have type "void".

**Explanation:** The type "void" is not valid for this

declaration.

In the message text:

"%1\$s" is the name of the declaration.

**User response:** Change the type.

**CCN6116** 

If "%1\$s" is a function name, one of its parameters may contain an undeclared type name.

**Explanation:** A function declaration that has an unknown type as a parameter may have been incorrectly parsed as a variable declaration with a paren-style initializer.

In the message text:

"%1\$s" is the name of the attempted function or variable declaration.

**User response:** See the primary message.

"%1\$s" cannot use the abstract class "%2\$s" as the type of an object, parameter type, or return type.

**Explanation:** The class has pure virtual functions so an object cannot be created.

In the message text:

"%1\$s" is what is attempting to use the abstract base class "%2\$s".

**User response:** Change the type of the object being created.

#### **CCN6118**

The declaration of "%1\$s" uses the undefined class "%2\$s" when the class must be complete.

**Explanation:** The usage requires the class to be defined.

In the message text:

"%1\$s" is the name of the declaration. "%2\$s" is the type being declared.

**User response:** Define the class.

#### **CCN6119**

The weak declaration of "%1\$s" must be public.

**Explanation:** Weak attribute must be attached to declarations that have external linkage.

In the message text:

"%1\$s" is the function declaration.

User response: Remove offending attribute.

## CCN6120

"using %1\$s" must refer to a member of a base class.

**Explanation:** The using declaration must refer to a member of a base class.

In the message text:

"%1\$s" is the argument of the using directive.

User response: Change the declaration.

#### CCN6121

"%1\$s" is a class member and can be declared only in a member declaration.

**Explanation:** A using declaration for a class member shall be a member declaration

In the message text:

"%1\$s" is a class member.

**User response:** Remove the using declaration, or move it into a class derived from the class that contains the member declaration.

# CCN6122 A non-type template parameter cannot have type "%1\$s".

**Explanation:** Only an integral, enumeration, pointer to object, pointer to function, Ivalue reference, or pointer-to-member type, or a cv-qualified version of one of these types, is allowed as the type of a non-type template parameter.

In the message text:

"%1\$s" is the invalid type.

**User response:** Correct the non-type template parameter.

#### CCN6123 An initializer is not allowed for "%1\$s".

**Explanation:** An initializer has been specified for a declaration that does not create an object.

In the message text:

"%1\$s" is the name of the declaration.

User response: Remove the initializer.

## CCN6124 A union cannot contain a static data member.

**Explanation:** Static data members have external linkage. They cannot be used in unions, because members of a union share the same memory.

**User response:** Change the union into a class or struct, or remove the static data member.

# CCN6125 The data member "%1\$s" cannot have the same name as its containing class.

**Explanation:** Every data member of a class must have a name different from the name of the containing class

In the message text:

"%1\$s" is the name of a class data member.

**User response:** Change the name of the data member so that it is not the same as the class name.

# CCN6126 The static data member "%1\$s" is not allowed in a local class.

**Explanation:** Since static data members have external linkage it makes no sense to have one inside a local class. If this were permitted, the static data member would be visible in scopes where the class itself is not visible.

In the message text:

"%1\$s" is a data member of a local class.

**User response:** Remove the static data member or move the class to global scope.

Only static data members with const integral or const enumeration type can specify an initializer in the class definition.

**Explanation:** The declaration of a static data member is not a definition. The definition should appear in a namespace scope enclosing the class that contains this member. Only static data members of const integral or const enumeration type may be initialized inside the class declaration. In this case, they must still be defined in the enclosing scope without an initializer.

**User response:** Move the initializer to the definition in the containing scope, or make the type a const integral or const enumeration.

#### CCN6128

The bit field "%1\$s" must have integral or enumeration type.

**Explanation:** A bit field is used to represent a sequence of bits. Only integral or enumeration types makes sense for bit fields.

In the message text:

"%1\$s" is the name of the bit field.

**User response:** Change the type of the bit field or remove the bit field.

#### CCN6129

The "mutable" specifier must not be applied to a member with type "%1\$s".

**Explanation:** The mutable specifier cannot be applied to const, static or reference members.

In the message text:

"%1\$s" is the type of the data member.

**User response:** Remove the mutable specifier from the data member or change the type of the data member

#### CCN6130

A static data member cannot be a direct or indirect member of an unnamed class.

**Explanation:** Static data members are defined and accessed using the name of the class in which they are defined. If the class has no name, the static data member cannot be defined or accessed.

**User response:** Give the class a name, or make the data member non-static.

## CCN6131

A zero-length bit field must not have a

**Explanation:** Bit fields with zero-length are used to specify alignment of the next bit field at the boundary of an allocation unit. They have no data and are therefore not accessed for any reason.

**User response:** Change the length of the bit field or remove the name.

#### CCN6132

"%1\$s" must not be a member of a union. "%2\$s" has a non-trivial copy assignment operator.

**Explanation:** Unions can only contain members that do not have copy assignment operators.

In the message text:

"%1\$s" is the declaration of the union member. "%2\$s" is the name of the class that has a non-trivial copy assignment operator.

**User response:** Change the member to be a POD-type.

## CCN6133

A union must not contain a member of type "%1\$s".

**Explanation:** Reference variables are not allowed in unions.

In the message text:

"%1\$s" is the type.

**User response:** Change the type of the member.

## CCN6134

An anonymous %1\$s must not have private or protected members.

**Explanation:** Only public members are allowed in anonymous aggregates.

In the message text:

%1\$s is the keyword union, struct or class.

**User response:** Ensure that all members are public.

## CCN6135

The anonymous %1\$s member "%2\$s" must not have the same name as its containing class.

**Explanation:** Every data member of a class must have a name different from the name of the containing class. Members of anonymous struct, class, or union are referenced as members of their containing class, so their name must also be different from the name of containing class.

In the message text:

"%1\$s" is either union, struct or class. "%2\$s" is the name of the member.

**User response:** Change the name of the member.

#### CCN6136

"%1\$s" cannot be a union member, because "%2\$s" has a non-trivial constructor.

**Explanation:** A trivial constructor is created by the compiler for a class with: no virtual functions and no

virtual base classes. All the direct base classes of its class must have trivial constructors, and all of its nonstatic data members that are of class type have must have trivial constructors. An object with a non-trivial constructor may not be a member of a union.

In the message text:

"%1\$s" is the declaration of the union member. "%2\$s" is the name of the class that has a non-trivial constructor.

**User response:** Change the union to a struct or a class or remove the member which has a non-trivial constructor.

## CCN6137

"%1\$s" cannot be a union member, because "%2\$s" has a non-trivial destructor.

**Explanation:** Unions can only contain members that do not have destructors.

In the message text:

"%1\$s" is the declaration of the union member. "%2\$s" is the name of the class that has a non-trivial destructor.

User response: Change the member to be a POD-type.

## CCN6138 Ellipsis (...) cannot be used for "%1\$s".

**Explanation:** An overloaded operator cannot have an ellipsis as a parameter.

In the message text:

"%1\$s" is the function.

**User response:** Change the ellipsis parameter.

#### CCN6139

An exception-specification can appear only in a function or pointer declaration.

**Explanation:** An exception-specification is not valid for this type.

**User response:** Remove the exception-specification.

#### CCN6140

The member "%1\$s" must be declared in its containing class definition.

**Explanation:** The member that is being defined out of line is not declared in the class.

In the message text:

"%1\$s" is the member.

**User response:** Declare the variable or function as a member of the class.

#### CCN6141

An anonymous %1\$s can define only non-static data members.

**Explanation:** Static members are not allowed in anonymous aggregates.

In the message text:

"%1\$s" is the keyword union, struct, or class.

**User response:** Remove the static member declaration.

#### CCN6142

"%1\$s" is ill-formed because "%2\$s" does not have a unique final overrider.

**Explanation:** The virtual function has more than one final overrider because of virtual base classes.

In the message text:

"%1\$s" is the name of the derived class. "%2\$s" is the qualified name of the virtual function with no final overrider.

**User response:** Ensure that only base class has a final overrider for the function or define the virtual function in the class.

#### CCN6143

"%1\$s" cannot be used as a base class because it contains a zero-dimension array.

**Explanation:** The base class cannot be used since it contains an array that has zero elements.

In the message text:

"%1\$s" is the base class.

**User response:** Change the base class.

## CCN6144

All array dimensions for non-static members must be specified and be greater than zero.

**Explanation:** An array dimension is missing or is negative.

**User response:** Ensure that all dimensions are specified as non-negative numbers.

#### CCN6145

A using-directive cannot appear in a class scope.

**Explanation:** Using directives can only be specified in namespace or lexical block scope.

User response: Remove the using directive.

#### CCN6146

The enumerator "%1\$s" cannot have the same name as its containing class.

**Explanation:** This is a name collision.

In the message text:

"%1\$s" is the enumerator.

#### CCN6147 • CCN6157

**User response:** Change the name of either the enumerator or the class.

CCN6147

"%1\$s" cannot be declared as inline or

**Explanation:** There are restrictions on "main" since it is the program starting point.

In the message text:

"%1\$s" is the function name.

**User response:** Remove the inline or static specifiers.

**CCN6148** 

The non-member function "%1\$s" cannot be declared "%2\$s".

**Explanation:** The specifier is only valid for member functions.

In the message text:

"%1\$s" is the name of the function. "%2\$s" is the specifier.

**User response:** Remove the specifier.

CCN6149

The value "%1\$s" specified on pragma "%2\$s" is lower than the effective architecture value "%3\$s". The pragma is ignored.

**Explanation:** The nested architecture level must be specified in the increasing order.

In the message text:

"%1\$s" is the invalid architecture level. "%2\$s" is the name of the pragma. "%3\$s" is the effective architecture level.

**User response:** Correct the architecture level by increasing its value or removing the pragma.

CCN6150

A constructor for "%1\$s" cannot be declared "%2\$s".

**Explanation:** The specifier is not valid for a constructor.

In the message text:

"%1\$s" is the struct, or class. "%2\$s" is the specifier.

User response: Remove the specifier.

CCN6151

When the first parameter to the constructor has type "%1\$s", the constructor must have other parameters without default arguments.

**Explanation:** This is an ill-formed copy constructor since the first parameter is not a reference.

In the message text:

"%1\$s" is the type.

**User response:** Change the first parameter to be a reference to make this a copy constructor.

CCN6152

The destructor for "%1\$s" cannot be declared "%2\$s".

**Explanation:** The specifier is not valid for a destructor.

In the message text:

"%1\$s" is the struct, or class. "%2\$s" is the specifier.

**User response:** Remove the specifier.

CCN6153

A destructor must not have a return type or parameter.

**Explanation:** A return type or parameter has been specified for a destructor.

specified for a destructor.

**User response:** Remove the return type or parameter.

CCN6154

The destructor "%1\$s" must not be declared as a template.

**Explanation:** A destructor must not be a member template.

In the message text:

"%1\$s" is the destructor.

**User response:** Remove or change the destructor to be a regular non-template destructor.

CCN6155

The static member function "%1\$s" must not be declared "%2\$s".

**Explanation:** A static function cannot have cv-qualifiers.

In the message text:

"%1\$s" is the name of the function. "%2\$s" is the specifier.

**User response:** Remove the cv-qualifiers.

CCN6156

A conversion operator must not have parameters.

**Explanation:** A conversion operator has been specified with parameters.

**User response:** Remove the parameters.

CCN6157

The conversion operator of type "%1\$s" will never be directly called to perform a conversion.

**Explanation:** A conversion operator has been specified with void type.

In the message text:

"%1\$s" is the type.

**User response:** Change the void specifier to another type.

CCN6158 The function template "%1\$s" must not be declared as virtual.

**Explanation:** A member function template cannot be virtual.

In the message text:

"%1\$s" is the function.

**User response:** Change the function so that it is not virtual or not a template.

CCN6159 The "%1\$s" qualifier must not be applied to "%2\$s".

**Explanation:** The qualifier is not valid for this declaration.

In the message text:

"%1\$s" is the qualifier. "%2\$s" is the declarator.

User response: Remove the qualifier.

CCN6160 The virtual function "%1\$s" is not allowed in a union.

**Explanation:** Unions cannot have virtual member functions.

In the message text:

"%1\$s" is the name of the function.

**User response:** Remove the virtual specifier.

CCN6161 The default arguments for "%1\$s" must not be followed by uninitialized parameters.

**Explanation:** All parameters following a parameter with a default initializer must also have default initializers.

In the message text:

"%1\$s" is the name of the function.

**User response:** Add default initializers for all parameters after the first parameter with a default initializer.

CCN6162 The pure-specifier (= 0) is not valid for the non-virtual function "%1\$s".

**Explanation:** The pure-specifier (= 0) is used to state that a virtual function does not have a definition. It has no meaning for non-virtual functions.

In the message text:

"%1\$s" is the name of the function.

**User response:** Make the function virtual or remove the pure-specifier.

CCN6163 The exception-specification for "%1\$s" is less restrictive than the exception-specification for "%2\$s".

**Explanation:** The exception specification for an overriding function must not list more types than the exception specification for the original function.

In the message text:

"%1\$s" is the overriding function. "%2\$s" is the original function.

**User response:** Match the exception specification for the overriding function with the original function or modify the exception specification of the original function.

CCN6164 The return type for "%1\$s" differs from the return type of "%2\$s" that it overrides.

**Explanation:** When overriding a function, the name, parameters and the return type should match.

In the message text:

"%1\$s" and "%2\$s" are the names of the functions.

**User response:** Modify the return type of the overriding function to match the original function.

CCN6165 The virtual function "%1\$s" is not a valid override of "%2\$s" because the qualifiers are not compatible.

**Explanation:** The return for an override must be more cy-qualified than the function in the base class.

In the message text:

"%1\$s" is the function. "%2\$s" is the function being overridden.

**User response:** Add the missing qualifiers to the override.

CCN6166 The virtual function "%1\$s" is not a valid override because "%2\$s" is an inaccessible base class of "%3\$s".

**Explanation:** The override is not correct because the base class containing the function is not accessible.

In the message text:

"%1\$s" is the function. "%2\$s" is the base class. "%3\$s" is the derived class.

**User response:** Remove the override.

### CCN6167 • CCN6176

**CCN6167** 

The virtual function "%1\$s" is not a valid override because "%2\$s" is an ambiguous base class of "%3\$s".

**Explanation:** The override is not correct because there are multiple base classes containing the function.

In the message text:

"%1\$s" is the function. "%2\$s" is the base class. "%3\$s" is the derived class.

**User response:** Remove the override.

**CCN6168** 

The virtual function "%1\$s" is not a valid override because "%2\$s" is not a base class of "%3\$s".

**Explanation:** The override is not correct because the return type is not complete nor the containing class.

In the message text:

"%1\$s" is the function. "%2\$s" is the base class. "%3\$s" is the derived class.

**User response:** Change the return type to be a complete class or the containing class.

CCN6169

The function template "%1\$s" cannot have default template arguments.

**Explanation:** Default template arguments are not allowed on a function template.

In the message text:

"%1\$s" is the function template.

**User response:** Remove the default template arguments.

CCN6170

Both "main" and "WinMain" are defined.

**Explanation:** Only one of "main" and "WinMain" can be defined in a program.

User response: Remove either "main" or "WinMain".

CCN6171

The friend function "%1\$s" cannot be defined in a local class.

**Explanation:** A class defined in a function body can not contain a definition of a friend function.

In the message text:

"%1\$s" is the friend function.

**User response:** Remove the definition of the friend in the local class.

CCN6172

More than one function "%1\$s" has non-C++ linkage.

**Explanation:** Only functions with C++ linkage can be overloaded.

In the message text:

"%1\$s" is the function.

**User response:** Change the name of the function so that it is unique.

CCN6173

"%1\$s" is not a valid parameter type.

**Explanation:** The type of the parameter is not valid.

In the message text:

"%1\$s" is the type.

**User response:** Change the type of the parameter.

CCN6174

The member "%1\$s" is not declared as a template in its containing class definition.

**Explanation:** This out-of-line template class member does not exist in the class template.

In the message text:

"%1\$s" is the member.

**User response:** Declare the member in the class template or remove the out-of-line declaration.

CCN6175

The class template partial specialization "%1\$s" does not match the primary template "%2\$s".

**Explanation:** Either both the primary template and the partial specialization must be unions or neither of them must be unions.

In the message text:

"%1\$s" is the partial specialization, "%2\$s" is the primary template.

**User response:** Make the class key match.

CCN6176

"%1\$s" is declared with a conflicting linkage.

**Explanation:** The linkage is not compatible with the linkage specified in a previous declaration.

In the message text:

"%1\$s" is the declarator.

**User response:** Change the linkage of one of the declarations so that they are compatible.

# CCN6177 Only variables with static storage can be declared to have thread local storage.

**Explanation:** The \_\_thread is specified but the declaration is not for a variable, or the variable is not declared static.

**User response:** Remove the \_\_thread specifier.

# CCN6178 "%1\$s" is declared to have both %2\$s and %3\$s linkage.

**Explanation:** The linkage is not compatible with the linkage specified in a previous declaration.

In the message text:

"%1\$s" is the declarator. "%2\$s" is the linkage specifier. "%3\$s" is the linkage specifier.

**User response:** Change the linkage of one of the declarations so that they are compatible.

# CCN6179 "%1\$s" contains conflicting linkages.

**Explanation:** The linkage is not compatible with the linkage specified in a previous declaration.

In the message text:

"%1\$s" is the declaration.

**User response:** Change the linkage of one of the declarations so that they are compatible.

# CCN6180 Namespace "%1\$s" must be global.

**Explanation:** A namespace can only be declared within another namespace or in the global namespace.

In the message text:

"%1\$s" is the namespace.

**User response:** Move the namespace to be within another namespace.

# CCN6181 The number of function parameters exceeds the target operating system limit of %1\$s.

**Explanation:** Too many function parameters have been specified.

In the message text:

%1s is the maximum number of function parameters allowed.

**User response:** Reduce the number of function parameters.

# CCN6182 "%1\$s" must have two or more parameters.

**Explanation:** The declaration of operator new does not have enough parameters.

In the message text:

"%1\$s" is the function.

**User response:** Ensure that the function has at least two parameters.

# CCN6183

The non-member function "%1\$s" must have at least one parameter of type class or enumeration, or a reference to class or enumeration.

**Explanation:** The operator overload does not have the correct type for its parameters.

In the message text:

"%1\$s" is the function.

**User response:** Change the types of the parameters.

# CCN6184 Wrong number of parameters for "%1\s".

**Explanation:** The declaration for the operator overload does not have the correct number of parameters.

In the message text:

"%1\$s" is the function.

**User response:** Change the declaration to have the proper number of parameters.

# CCN6185 "%1\$s" must be a non-static member function.

**Explanation:** The operator overload is only valid as a non-static member function.

In the message text:

"%1\$s" is the function.

**User response:** Change the declaration to be a non-static member function.

# CCN6186 The last parameter for postfix "%1\$s" must be of type "int".

**Explanation:** The last parameter for the operator overload must be of type int.

In the message text:

"%1\$s" is the function.

**User response:** Change the last parameter to be of type int.

### CCN6187 • CCN6199

**CCN6187** "%1\$s" must not have default arguments.

**Explanation:** The overloaded operator must not have default arguments.

In the message text:

"%1\$s" is the function.

**User response:** Remove the default arguments.

**CCN6188** The return type for the "%1\$s" must not be the containing class.

Explanation: The return type for the overloaded function cannot be the containing class.

In the message text:

"%1\$s" is the operator.

**User response:** Change the return type.

**CCN6189** The return type for "operator new" must

be "void \*".

**Explanation:** The specified return type is invalid.

**User response:** Change the return type.

CCN6190 The first parameter for "operator new" must have type "size\_t".

**Explanation:** The type of the first parameter is

incorrect.

**User response:** Change the type of the first parameter.

CCN6191 The first parameter of "operator new" cannot have a default argument.

Explanation: It is invalid to specify a default

argument for "operator new".

**User response:** Remove the default argument.

CCN6192 "%1\$s" must not be declared static in global scope.

**Explanation:** Overloaded versions of "operator new" and "operator delete" must not be declared static.

In the message text:

"%1\$s" is the function.

**User response:** Remove the static specifier.

The member function "%1\$s" must not CCN6193 be declared virtual.

Explanation: "Operator new" and "operator delete" cannot be declared virtual in a member list.

In the message text:

"%1\$s" is the member function.

**User response:** Remove the virtual specifier.

CCN6194 "%1\$s" must be a class member function or a global function.

**Explanation:** The scope for the overloaded "operator new" or "operator delete" is invalid.

In the message text:

"%1\$s" is the function.

User response: Remove the declaration.

CCN6195 The return type for "operator delete" must be "void".

**Explanation:** A return type other than "void" has been specified for "operator delete".

**User response:** Change the return type to be "void".

CCN6196 The return type cannot be "%1\$s" because "%2\$s" does not have an "operator->" function.

**Explanation:** The return type must have an "operator->" function.

In the message text:

"%1\$s" is the type. "%2\$s" is the class or struct.

**User response:** Add an "operator->" function to the return type.

CCN6197 Parameter number %1\$s for "operator delete" must have type "%2\$s".

**Explanation:** The parameter has a wrong type.

In the message text:

"%1\$s" is the function parameter number. "%2\$s" is the required type.

**User response:** Change the parameter to the required type.

**CCN6198** Too many parameters are specified for "operator delete".

**Explanation:** There are too many parameters specified.

**User response:** Remove the extra parameters.

CCN6199 "main" must have a return type of type

**Explanation:** A return type other than "int" has been specified for "main".

**User response:** Change the return type of "int" to be "int".

CCN6200 An ellipsis (...) handler must not be followed by another handler.

**Explanation:** An ellipsis handler will match all thrown objects, and the handlers are tried in the order that they are specified. Therefore the ellipsis handler must be last.

**User response:** Move the ellipsis handler to be the last handler.

CCN6201 A "new" expression with type "%1\$s" must have an initializer.

**Explanation:** A const type must be initialized even when it is allocated with new.

In the message text:

"%1\$s" is the type.

User response: Add an initializer.

CCN6202 No candidate is better than "%1\$s".

**Explanation:** Informational message indicating one of the best matches for operator overloading.

In the message text:

"%1\$s" is the match.

**User response:** See the primary message.

CCN6203 The conversion from "%1\$s" to "%2\$s" matches more than one conversion function.

**Explanation:** There is more than one conversion sequence so it is an ambiguous conversion.

In the message text:

"%1\$s" and "%2\$s" are the types.

**User response:** Provide a closer matching conversion.

CCN6204 The conversion matches "%1\$s".

**Explanation:** Informational message indicating a matched conversion sequence.

In the message text:

"%1\$s" is the conversion sequence.

User response: See the primary message.

CCN6205 The error occurred while converting to parameter %1\$s of "%2\$s".

**Explanation:** Informational message about conversion sequences.

In the message text:

"%1\$s" is the parameter number. "%2\$s" is the function.

User response: See the primary message.

CCN6206 The class template instantiation of "%1\$s" is ambiguous.

**Explanation:** The instantiation cannot be performed since the template is not uniquely identified.

In the message text:

"%1\$s" is the template.

**User response:** Qualify the instantiation to make it uniquely identify a template.

CCN6207 The template arguments match "%1\$s".

**Explanation:** Informational message indicating what the template arguments match.

In the message text:

"%1\$s" is the matched template.

**User response:** See the primary message.

CCN6208 The use of "%1\$s" is not valid.

**Explanation:** The name is being incorrectly used.

In the message text:

"%1\$s" is the invalid name.

**User response:** Fix the usage of the name.

CCN6209 The name lookup in the context of "%1\$s" resolved to "%2\$s".

**Explanation:** Informational message indicating the resolution of the name.

In the message text:

"%1\$s" is the context. "%2\$s" is the resolution.

User response: See the primary message.

CCN6210 Name lookup in the context of the expression resolved to "%1\$s".

**Explanation:** Informational message indicating what the resolution of the name.

In the message text:

"%1\$s" is the resolution.

**User response:** See the primary message.

CCN6211 The conversion type must represent the same type in the context of the expression as in the context of the class of the object expression.

**Explanation:** The conversion type is resolved in the left side of the member access and in the current scope

### CCN6212 • CCN6221

and it can only resolve in one or it must resolve to the same entity in both.

**User response:** Change the context so that the lookups match.

CCN6212 The type of the conversion function cannot be resolved.

**Explanation:** Some names in the type of the conversion function are not declared.

User response: Change the conversion function so that all elements are declared.

CCN6213

The temporary for the throw expression is of type "%2\$s" and cannot be initialized with an expression of type "%1\$s".

**Explanation:** Throw expressions throw a copy (rather than the object itself) and the temporary cannot be initialized with the given expression.

In the message text:

"%2\$s" is the type of the throw expression. "%1\$s" is the initialization type.

User response: Change the initializer or provide appropriate constructors.

CCN6214 The member expression resolves to the type "%1\$s".

**Explanation:** The left side of the class member access refers to type "%1\$s".

In the message text:

"%1\$s" is the type being accessed.

**User response:** Change the class member access expression.

CCN6215 "%1\$s" must not have an initializer list.

**Explanation:** Only constructors can have constructor initializer lists and this function is not a constructor.

In the message text:

"%1\$s" is the function.

**User response:** Remove the constructor initializer list.

CCN6216

The unqualified member "%1\$s" must be qualified with "%2\$s::" and preceded by an "&" to form an expression with type pointer-to-member.

**Explanation:** A pointer-to-member expression is of the form: "&className::member ".

In the message text:

"%1\$s" is the member. "%2\$s" are the qualifiers.

**User response:** Add the qualifiers and address operator.

CCN6217

The second and third operands of the conditional operators must not both be throw expressions.

Explanation: Only one of the second and third operands in a ternary operator can be a throw expression.

**User response:** Change one of the second and third operators to not be a throw expression or replace the ternary expression with a conditional statement.

CCN6218

When defining the implicitly declared function "%1\$s", the header "<new>" should be included.

**Explanation:** The header "<new>" contains declarations that are necessary for creating some implicitly declared functions and must therefore be included using the #include directive.

In the message text:

"%1\$s" is the function being implicitly declared.

User response: Include the header "<new>" using an include directive.

CCN6219

"%1\$s" must be preceded by an "&" to form an expression with type pointer-to-member.

**Explanation:** A non-static member must be associated with an object.

In the message text:

"%1\$s" is the member.

**User response:** Add the address operator.

CCN6220

The qualified type name "%1\$s" used in the explicit destructor call does not match the destructor type " $\sim$ %2s".

**Explanation:** The form used to indicate a destructor in a pseudo-destructor call is not valid.

In the message text:

"%1\$s" is the expected destructor specification. "~%2\$s" is the destructor name.

**User response:** Change the specification of the destructor.

CCN6221

The explicit destructor call must be invoked for an object.

**Explanation:** An attempt is being made to call a destructor without an object.

**User response:** Call the destructor as a member access on an object.

CCN6222 The destructor type "%1\$s" does not match the object type "%2\$s".

**Explanation:** The destructor indicated does not match the type of the object.

In the message text:

"%1\$s" is the type of the destructor. "%2\$s" is the type of the object.

**User response:** Change the destructor to match the type of the object.

CCN6223 "%1\$s" is not valid as an identifier expression.

**Explanation:** The form of the identifier is invalid.

In the message text:

"%1\$s" is the invalid form for an identifier.

**User response:** Change the form to a valid form for an identifier.

CCN6224 "%1\$s" cannot be dynamically cast to "%2\$s" because "%1\$s" does not declare or inherit virtual functions.

**Explanation:** Only polymorphic classes can be dynamically cast.

In the message text:

"%1\$s" is the source class. "%2\$s" is the target class.

User response: Remove the dynamic cast.

CCN6225 Name lookup did not find "%1\$s" in the context of the template definition.

**Explanation:** This may cause an error when the template is instantiated. Declarations for non-dependent names are resolved in the template definition.

In the message text:

"%1\$s" is the unresolved name.

**User response:** Correct the unresolved name by removing the reference or declaring it.

CCN6226 Declarations for non-dependent names are resolved in the template definition.

**Explanation:** This is a submessage.

**User response:** See the primary message.

CCN6227 "%1\$s" does not depend on a template argument.

**Explanation:** This is a submessage.

In the message text:

"%1\$s" is the name that is not dependent on the template.

User response: See the primary message.

CCN6228 Argument number %1\$s is an lvalue of type "%2\$s".

**Explanation:** Informational message describing the type of a parameter to a function.

In the message text:

"%1\$s" is the argument number. "%2\$s" is the lvalue type.

**User response:** See the primary message.

CCN6229 Argument number %1\$s is an rvalue of type "%2\$s".

**Explanation:** Informational message describing the type of a parameter to a function.

In the message text:

"%1\$s" is the argument number. "%2\$s" is the rvalue type.

User response: See the primary message.

CCN6230 Argument number 1 is the implicit "this" argument.

**Explanation:** Informational message describing the implicit "this" argument in a member function.

**User response:** See the primary message.

CCN6231 The conversion from argument number %1\$s to "%2\$s" uses %3\$s.

**Explanation:** Informational message describing a conversion sequence.

In the message text:

%1\$s is the argument number. "%2\$s" is the parameter type. %3\$s is more detailed text.

**User response:** See the primary message.

CCN6232 ""%1\$s""

**Explanation:** Informational message describing a standard conversion sequence.

In the message text:

"%1\$s" is more detailed generated text.

#### CCN6233 • CCN6258

**User response:** See the primary message.

CCN6233 ""%1\$s" followed by "%2\$s""

**Explanation:** Informational message describing a standard conversion sequence.

In the message text:

"%1\$s" is more detailed generated text. "%2\$s" is more detailed generated text.

**User response:** See the primary message.

CCN6234 ""%1\$s" followed by "%2\$s" followed by "%3\$s""

**Explanation:** Informational message describing a standard conversion sequence.

In the message text:

"%1\$s" is more detailed generated text. "%2\$s" is more detailed generated text. "%3\$s" is more detailed generated text.

**User response:** See the primary message.

CCN6235 the user-defined conversion "%1\$s"

**Explanation:** Informational message describing a user-defined conversion sequence.

In the message text:

"%1\$s" is the name of a user-defined conversion function.

User response: See the primary message.

CCN6236 the user-defined conversion "%1\$s" followed by %2\$s

**Explanation:** Informational message describing a user-defined conversion sequence.

In the message text:

"%1\$s" is the name of a user-defined conversion function. %2\$s is more detailed generated text.

User response: See the primary message.

CCN6237 %1\$s followed by the user-defined conversion "%2\$s"

**Explanation:** Informational message describing a user-defined conversion sequence.

In the message text:

%1\$s is more detailed generated text. "%2\$s" is the name of a user-defined conversion function.

**User response:** See the primary message.

CCN6238 %1\$s followed by the user-defined conversion "%2\$s" followed by %3\$s

**Explanation:** Informational message describing a user-defined conversion sequence.

In the message text:

%1\$s is more detailed generated text. "%2\$s" is the name of a user-defined conversion function. %3\$s is more detailed generated text.

User response: See the primary message.

CCN6239 an ellipsis conversion sequence

**Explanation:** Informational message about a

conversion sequence.

User response: See the primary message.

CCN6240 the resolved overloaded function "%1\$s"

**Explanation:** Informational message about a conversion sequence.

In the message text:

"%1\$s" is the function.

**User response:** See the primary message.

CCN6255 The local label "%1\$s" has already been declared as a label.

**Explanation:** An attempt was made to declare a local label in the same scope as an existing label or local label.

In the message text:

"%1\$s" is a invalid local label.

User response: Remove the local label declaration.

CCN6257 An rvalue of type "%1\$s" cannot be converted to an rvalue of type \_\_complex\_\_.

**Explanation:** There is no valid conversion sequence for converting the expression to an expression of type \_\_complex\_\_.

In the message text:

"%1\$s" is the type of expression.

**User response:** Change the expression.

CCN6258 Conversion from "%1\$s" to "%2\$s" may cause truncation.

**Explanation:** The specified conversion from a wider to a narrower type may cause the loss of significant data.

In the message text:

"%1\$s" is a C++ type "%2\$s" is a C++ type

**User response:** Remove the conversion from a wider to a narrower type.

CCN6259 The initializer list has too few initializers.

**Explanation:** An initializer list should have the same number of initializers as the number of elements to initialize.

**User response:** Add some initializers or decrease the number of elements to initialize.

CCN6260 An object of type "%2\$s" cannot be constructed from an rvalue of type "%1\$s".

**Explanation:** There is no valid way to construct the desired object from the given type.

In the message text:

"%2\$s" is the type being constructed. "%1\$s" is the type of the expression.

User response: Change the expression.

CCN6261 The qualified member "%1\$s" should not be in parentheses when forming an expression with type pointer-to-member.

**Explanation:** Informational message indicating that removing the parentheses may resolve the error.

In the message text:

"%1\$s" is the member.

User response: See the primary message.

CCN6262 The scope of "%1\$s" extends only to the end of the for-statement.

**Explanation:** Informational message indicating the scoping of variables introduced in for-statements. This behavior is different in the language standard than in previous levels of the working draft.

In the message text:

"%1\$s" is the variable.

**User response:** Move the declaration above the for-statement.

CCN6263 Build with

"lang(ISOForStatementScopes, no)" to extend the scope of the for-init-statement declaration.

**Explanation:** Informational message describing a compatibility option.

**User response:** See the primary message.

CCN6264 The template argument must be preceded by an ampersand (&).

**Explanation:** The template argument is expected to be

the address of an object.

**User response:** Add the address operator.

CCN6265 The template argument must be the address of an object or function with extern linkage.

**Explanation:** For example string literals are not allowed because they have internal linkage.

**User response:** Correct the template argument.

CCN6266 A template argument with type "%1\$s" cannot be converted to a template parameter with type "%2\$s".

**Explanation:** Only certain standard conversion sequences can be applied.

In the message text:

"%1\$s" is the argument type. "%2\$s" is the parameter type.

**User response:** Correct the template argument type.

CCN6267 "%1\$s" is declared with internal linkage in source "%2\$s".

**Explanation:** Informational message about where an object is declared with internal linkage.

In the message text:

"%1\$s" is the variable. "%2\$s" is the source.

**User response:** See the primary message.

CCN6268 "%1\$s" conflicts with the definition in source "%2\$s" because "%3\$s" has internal linkage.

**Explanation:** The variable or function is defined as static in another source file.

In the message text:

"%1\$s" is the variable or function. "%2\$s" is the source. "%3\$s" is the other variable or function with internal linkage.

**User response:** Remove the static from the other definition.

CCN6269 The template argument for the non-type template parameter of type "%1\$s" must be an integral constant expression.

**Explanation:** Only constant expressions are allowed for integral or enumeration non-type template arguments.

### CCN6270 • CCN6279

In the message text:

"%1\$s" it the template parameter type.

**User response:** Correct the non-type template

parameter.

CCN6270 A function or object name must be expressed as an id-expression.

**Explanation:** A function or object name used as a non-type template argument must be an id-expression with external linkage.

**User response:** Correct the template argument to be a name with external linkage.

CCN6271 The "sizeof" operator cannot be applied to a bit field.

**Explanation:** It is invalid to use the "sizeof" operator on a bit field.

**User response:** Remove the "sizeof" operator.

CCN6272 The incomplete class "%1\$s" is not a valid "catch" type.

**Explanation:** Only complete types can be used in the type for catch handlers but the specified type has only been declared and not defined.

In the message text:

"%1\$s" is the class.

**User response:** Define the type.

CCN6273 A pointer or reference to the incomplete class "%1\$s" is not a valid "catch" type.

**Explanation:** Only pointers to complete types can be used in the type for catch handlers but the type has only been declared and not defined.

In the message text:

"%1\$s" is the incomplete class type.

**User response:** Change the type in the catch or define the class.

CCN6274 The "catch(%1\$s)" cannot be reached because of a previous "catch(%2\$s)".

**Explanation:** Catch handlers are tried sequentially and this catch is unreachable because a previous handler catches everything that this handler can catch.

In the message text:

"%1\$s" is the current handler. "%2\$s" is the previous handler.

**User response:** Remove or change the handler.

CCN6275 Too many explicit template arguments are specified for "%1\$s".

**Explanation:** The number and type of template arguments must match the template parameters.

In the message text:

"%1\$s" is the template.

**User response:** Remove the extra template arguments.

CCN6276 The explicit template specialization "%1\$s" matches more than one template.

**Explanation:** The explicit specialization of this function matches multiple function templates. Probably because of allowable non-type template argument conversions.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Remove the explicit specialization, remove one of the primary templates, or add namespaces to separate the templates.

CCN6277 The explicit template specialization "%1\$s" does not match any template.

**Explanation:** An explicit specialization must specialize a primary template.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Declare the primary template or correct the explicit specialization.

CCN6278 The deduced type "%1\$s" does not match the specialized type "%2\$s".

**Explanation:** The template argument type deduced from the function call does not match the type in the specialization.

In the message text:

"%1\$s" is the deduced type, "%2\$s" is the specialized type.

**User response:** Explicitly specify the template arguments or change the call.

CCN6279 A return statement cannot appear in a handler of the function-try-block of a constructor.

**Explanation:** A return statement is in a handler for a function-try-block of a constructor.

**User response:** Remove the return statement.

CCN6280 An rvalue expression of type "%1\$s" cannot be converted to type "%2\$s".

**Explanation:** No conversion sequence exists for converting an rvalue expression of type "%1\$s" to type "%2\$s".

In the message text:

"%1\$s" is the original type. "%2\$s" is the target type.

**User response:** Change the types or provide conversion functions.

# CCN6281 "offsetof" cannot be applied to "%1\$s". It is not a POD (plain old data) type.

**Explanation:** "offsetof" cannot be applied to a class that is not a POD. POD types do not have non-static pointers-to-member, non-POD members, destructors nor copy assignment operators (ie, they are similar to C-style structs).

In the message text:

"%1\$s" is the type.

**User response:** Change the type to be a POD type.

# CCN6282 An enumerator from an enumeration that is in error is being referenced.

**Explanation:** This is a cascading error caused by an error in the definition of the enumeration.

**User response:** Fix the error in the definition of the enumeration.

#### CCN6283 "%1\$s" is not a viable candidate.

**Explanation:** Informational message indicating that this was not a viable candidate for overload resolution.

In the message text:

"%1\$s" is the potential resolution.

**User response:** See the primary message.

# CCN6284 Predefined "%1\$s" is not a viable candidate.

**Explanation:** Informational message indicating that this was not a viable candidate for overload resolution.

In the message text:

"%1\$s" is the potential resolution.

User response: See the primary message.

#### CCN6285 The specialization matches "%1\$s".

**Explanation:** Informational message indicating what a specialization matches.

In the message text:

"%1\$s" is the matched specialization.

**User response:** See the primary message.

# CCN6286 The specialization does not match "%1\$s".

**Explanation:** Informational message indicating what a specialization cannot match.

In the message text:

"%1\$s" is what the specialization cannot match.

User response: See the primary message.

# CCN6287 "%1\$s" has internal linkage but is undefined.

**Explanation:** A static member variable or static function must be defined.

In the message text:

"%1\$s" is the undefined member variable or static function.

**User response:** Define the member variable or static function.

# CCN6288 The explicit template instantiation "%1\$s" matches more than one template.

**Explanation:** The explicit instantiation of this function matches multiple function templates. Probably because of allowable non-type template argument conversions.

In the message text:

"%1\$s" is the explicit instantiation.

**User response:** Remove the explicit instantiation, remove one of the primary templates, or add namespaces to separate the templates.

# CCN6289 The implicit object parameter of type "%2\$s" cannot be initialized with an implied argument of type "%1\$s".

**Explanation:** A function is being called implicitly and the parameters do not match the expected parameters.

In the message text:

"%2\$s" is the implicit object parameter type. "%1\$s" is the implied argument type.

**User response:** Provide an explicit conversion function.

# CCN6290 An rvalue cannot be converted to an lvalue reference to a non-const or volatile type.

**Explanation:** The target of the conversion must be a non-volatile const lvalue reference or an rvalue reference.

### CCN6291 • CCN6300

**User response:** See the primary message.

CCN6291

To initialize the reference with an rvalue, "%1\$s" must have a copy constructor with a parameter of type "%2\$s".

**Explanation:** Informational message indicating that a copy constructor must be supplied.

In the message text:

"%1\$s" is the type of the object. "%2\$s" is the type of the parameter.

User response: See the primary message.

CCN6292

Static declarations are not considered for a function call if the function is not qualified.

**Explanation:** Informational message describing why a static function cannot be considered.

User response: See the primary message.

CCN6293

The explicit instantiation matches "%1\$s".

**Explanation:** Informational message about matching of explicit instantiations.

In the message text:

"%1\$s" is the matched explicit instantiation.

**User response:** See the primary message.

CCN6294

The explicit instantiation does not match "%1\$s".

**Explanation:** Informational message about matching of explicit instantiations.

In the message text:

"%1\$s" is the explicit instantiation that is not matched.

User response: See the primary message.

CCN6295

The explicit template instantiation "%1\$s" does not match any template.

**Explanation:** There is no primary template matching this explicit template instantiation.

In the message text:

"%1\$s" is the explicit template instantiation.

**User response:** Remove the explicit template instantiation or declare the primary template..

CCN6296

The const object "%1\$s" requires "%2\$s" to have a user-declared default constructor.

**Explanation:** This class has a const object so the class must have a user-declared default constructor.

In the message text:

"%1\$s" is the const object. "%2\$s" is the class.

**User response:** Provide a user default-constructor.

CCN6297

The const object "%1\$s" needs an initializer or requires "%2\$s" to have a user-declared default constructor.

**Explanation:** This class has a const object so the class must have a user-declared default constructor.

In the message text:

"%1\$s" is the const object. "%2\$s" is the class.

**User response:** Provide a user default-constructor.

CCN6298

"%1\$s" needs to be declared in the containing scope to be found by name lookup.

**Explanation:** Informational message about declaring friend classes in the containing scope for the class to be found by name lookup.

In the message text:

"%1\$s" is the class.

**User response:** Declare the class in the enclosing scope.

CCN6299

"%1\$s" is undefined. Every variable of type "%2\$s" will assume "%3\$s" has no virtual bases and does not use multiple inheritance.

**Explanation:** The pointer refers to an incomplete class so it will be assumed that the class has no virtual bases nor multiple inheritance.

In the message text:

"%1\$s" is the undefined class. "%2\$s" is the pointer type. "%3\$s" is the class.

**User response:** Define the class.

CCN6300

"%1\$s" includes the file "%2\$s".

**Explanation:** This is a submessage. This message is used to specify that a certain file includes the file "%2\$s".

In the message text:

"%1\$s" and "%2\$s" are the two files in the include chain.

**User response:** See the primary message.

CCN6301 The previous error occurs during the

processing of file "%1\$s".

**Explanation:** This is a submessage.

In the message text: "%1\$s" is the file.

User response: See the primary message.

CCN6302 The conflicting declaration was encountered during the processing of

the file "%1\$s".

**Explanation:** This message describes the include hierarchy that caused the preceding error.

In the message text:

"%1\$s" is the file name.

**User response:** Remove the conflicting declaration.

CCN6303 "%1\$s" is not visible.

**Explanation:** This message indicates that the declaration is not visible at the current location.

In the message text:

"%1\$s" is the declaration.

**User response:** Move the declaration to a position prior to the current location.

CCN6304 "%1\$s" is not visible from "%2\$s".

**Explanation:** This message indicates that the declaration is not visible at the current location.

In the message text:

"%1\$s" is the declaration. "%2\$s" is the location.

**User response:** Move the declaration to a position prior to the current location.

CCN6305 "%1\$s" is not complete when included by "%2\$s".

**Explanation:** The class or struct is incomplete when included from a particular header file location.

In the message text:

"%1\$s" is the class. "%2\$s" is the header file.

**User response:** Instantiate the direct nullifier of the virtual function table operator.

CCN6306 The deleted definition of function "%1\$s" must not be out-of-line.

**Explanation:** The delete keyword must not be specified on out-of-line declarations.

In the message text:

The deleted definition for function "%1\$s" is invalid.

**User response:** Make the first declaration of function deleted and remove the out-of-line definition.

CCN6307 The declaration of "%1\$s" is deleted and cannot be used.

**Explanation:** A function cannot be used if its declaration is deleted.

In the message text:

"%1\$s" is the name of the function.

**User response:** Do not use a function whose declaration is deleted.

CCN6308 "%1\$s" is not a special member function, and therefore it cannot be defaulted.

**Explanation:** Only special member functions can be used in defaulted definitions.

In the message text:

"%1\$s" is an invalid defaulted definition.

**User response:** Remove the invalid defaulted definition.

CCN6309 The deleted definition of function "%1\$s" is invalid.

**Explanation:** Deleted function definition has been used incorrectly.

In the message text:

"%1\$s" is an invalid deleted definition.

**User response:** Remove the invalid deleted definition.

CCN6310 The function "%1\$s" differs from the expected signature, "%2\$s", in a manner that prevents it from being explicitly defaulted.

**Explanation:** The declared type of a defaulted function can differ from the otherwise-implicitly declared function only in limited ways.

In the message text:

"%1\$s" is the user-declared function signature. "%2\$s" is the signature of the otherwise-implicitly declared function.

**User response:** Change the declaration to match the expected signature or to differ from the expected

signature in an allowed manner.

#### CCN6311

To be explicitly defaulted on its first declaration, "%1\$s" cannot have a parameter type which differs from the one in the expected signature, "%2\$s".

Explanation: The parameter type for a copy constructor or copy assignment operator cannot differ from the one in the otherwise-implicitly declared function if the function is defaulted on its first declaration.

In the message text:

"%1\$s" is the user-declared function signature. "%2\$s" is the signature of the otherwise-implicitly declared function.

**User response:** Change the declaration to have the expected parameter type, or explicitly-default it in a later declaration instead.

#### CCN6312

The defaulted definition of function "%1\$s" must not have default arguments.

Explanation: A function that is explicitly defaulted must not have default arguments.

In the message text:

"%1\$s" is the name of the function.

**User response:** Remove the default arguments from the function.

#### CCN6388

A positive integer constant expression must be specified for pragma %1s. The pragma is ignored.

**Explanation:** The parameter must be a positive integer constant expression.

In the message text:

"%1\$s" is a pragma directive.

**User response:** Correct the pragma specification.

#### CCN6389

Pragma %1s must be specified only once for the same loop. This pragma is ignored.

Explanation: The pragma is ignored because it has been specified more than once for the same loop.

In the message text:

"%1\$s" is a pragma directive.

**User response:** Remove the extra pragma specification.

#### CCN6390

Pragma %1s is ignored because it contradicts pragma %2s, which is previously specified for the same loop.

**Explanation:** The pragma is ignored because it is specified with invalid parameters that conflict with another pragma specified for the same loop.

In the message text:

"%1\$s" and "%2\$s" are two conflicting pragma directives.

User response: Change the pragma parameter to correct value.

#### CCN6391

External name "%1\$s" has been truncated to "%2\$s".

Explanation: The external name exceeds the maximum length and has been truncated. This may result in unexpected behavior if two different names become the same after truncation.

In the message text:

"%1\$s" and "%2\$s" are identifier names.

**User response:** Reduce the length of the external name.

### CCN6392

The Csect option is ignored due to conflict with the name in #pragma csect.

**Explanation:** The compiler was unable to generate valid csect names which must be unique.

User response: Change the name in #pragma csect, turn off the CSECT option or add suboption to eliminate the conflict with the name in #pragma csect.

#### CCN6393

"pragma %1\$s" must be specified in namespace scope. The pragma is ignored.

**Explanation:** The pragma is ignored because it has been specified in an invalid scope such as a function body or class member list.

In the message text:

"%1\$s" is the name of the ignored pragma.

**User response:** Move the pragma to namespace scope.

#### CCN6394

The "pragma %1\$s" and "pragma %2\$s" are incompatible for the same declaration. The "pragma %3\$s" is ignored.

Explanation: The "pragma "%1\$s" is not supported with the use of "pragma %2\$s".

In the message text:

"%1\$s" and "2\$s" are the names of two conflicting

pragma derectives. "%3\$s" is the name of the ignored pragma.

**User response:** Remove one of the pragma directives for the declaration.

#### CCN6395

The pragma argopt and pragma descriptor are incompatible for the same declaration.

**Explanation:** Only one of the pragmas is supported for each declaration.

**User response:** Remove either the pragma descriptor, or the pragma argopt for the declaration.

#### CCN6396

The value given for "pragma priority" must be a constant integral expression in the range between 101 and 65535. The pragma is ignored.

**Explanation:** The pragma is ignored when the system supports GNU Attributes because the value is not a constant integral expression in the range between 101 and 65535.

**User response:** Change the value to evaluate to the required range.

#### CCN6397

The Csect option is ignored due to a naming error.

**Explanation:** The compiler was unable to generate valid csect names.

**User response:** Use the pragma csect to name the code and static control sections.

#### CCN6398

The external name "%1\$s" in pragma csect conflicts with another csect name.

**Explanation:** A pragma csect was specified with a name which has already been specified as a csect name on another pragma.

In the message text:

"%1\$s" is an identifier.

**User response:** Ensure that the two csect names are unique.

### CCN6399

There is more than one pragma csect statement.

**Explanation:** A duplicate pragma csect is ignored.

**User response:** Remove the duplicate pragma csect statement.

CCN6400 The incorrect pragma is ignored.

**Explanation:** The pragma is incorrect and is ignored.

**User response:** Correct the pragma.

CCN6401 An unkr

An unknown "pragma %1\$s" is specified.

**Explanation:** The specified pragma is not recognized.

In the message text:

"%1\$s" is the name of the unknown pragma.

**User response:** Change the name of the pragma to one that is applicable to the compiler.

#### CCN6402

The options for "pragma %1\$s" are incorrectly specified: expected %2\$s and found %3\$s. The option is ignored.

**Explanation:** The options for the pragma are not correctly specified and the pragma is ignored.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the expected option and "%3\$s" is the found option.

**User response:** Change the options to the pragma as indicated.

# CCN6403

The function "%2\$s" specified in "pragma %1\$s" cannot be found. The pragma is ignored.

**Explanation:** The pragma is ignored because it refers to a function that is not declared.

In the message text:

"%1\$s" and "%2\$s" are the names of the pragma and the undeclared function, respectively.

**User response:** Change the pragma to refer to a declared function or declare the function.

#### CCN6404

The parameter "%1\$s" specified for "pragma %2\$s" is not valid. The pragma is ignored.

**Explanation:** The pragma is ignored because the parameter specified is not valid.

In the message text:

%1\$s and "%2\$s" are the invalid parameter and the pragma, respectively.

**User response:** Change the pragma parameter.

Syntax error in "pragma %1\$s": expected "%2\$s" and found "%3\$s". The pragma is ignored.

**Explanation:** The pragma is ignored because there is a syntax error in the pragma directive.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" and "%3\$s" are the expected text and the incorrect input, respectively.

User response: Correct the syntax of the pragma specification.

CCN6406

"pragma %1\$s" is already specified. The pragma is ignored.

**Explanation:** The pragma is ignored because it has already been specified.

In the message text:

"%1\$s" is the name of the pragma that is ignored.

**User response:** Remove the pragma specification.

**CCN6407** 

The function "%2\$s" specified in "pragma %1\$s" does not have an implementation. The pragma is ignored.

**Explanation:** The pragma is ignored because it requires that the specified function be defined but it is only declared.

In the message text:

"%1\$s" is the name of the ignored pragma and "%2\$s" is the name of the function that must be defined.

**User response:** Define the function.

**CCN6408** 

"pragma %1\$s" has no effect. The pragma is ignored.

**Explanation:** The pragma is ignored because it has no effect. It may be that the pragma specifies options that are already in effect.

In the message text:

"%1\$s" is the name of the ignored pragma.

User response: See the primary message.

CCN6409

"pragma %1\$s" is not supported on the target platform. The pragma is ignored.

**Explanation:** The pragma is ignored because it is not valid on the target platform.

In the message text:

"%1\$s" is the name of the ignored pragma.

**User response:** See the primary message.

CCN6410

The function "%2\$s" specified in "pragma %1\$s" is not uniquely identified. The pragma is ignored.

**Explanation:** The pragma is ignored either because the function specified is overloaded or because it is declared in multiple namespaces. It is not clear which function is being specified.

In the message text:

"%1\$s" is the name of the ignored pragma. "%2\$s" is the name of the overloaded function.

User response: Either use namespace qualifiers and parameter type signatures to uniquely identify the function or remove the pragma.

CCN6411

"pragma %1\$s" must be specified in global scope. The pragma is ignored.

**Explanation:** The pragma is ignored because it has been specified in an invalid scope such as a function body or class member list.

In the message text:

"%1\$s" is the name of the ignored pragma.

**User response:** Move the pragma to global scope.

CCN6412

The declaration "%2\$s" specified in "pragma %1\$s" cannot be found. The pragma is ignored.

**Explanation:** The pragma is ignored because it names a variable or type that has not been declared.

In the message text:

"%1\$s" is the name of the ignored pragma and "%2\$s" is the name of the variable or the type indicated in the pragma.

**User response:** Change the pragma to refer to a declared variable or type or declare the indicated variable or type.

CCN6413

The conflicting pragma is specified on line %1\$s of "%2\$s".

**Explanation:** This message shows the coordinates of the conflicting pragma.

In the message text:

"%1\$s" is the line number. "%2\$s" is the file name.

**User response:** Remove the pragma specification.

CCN6414

The function "%2\$s" specified in "pragma %1\$s" is a member function. The pragma is ignored.

Explanation: Member functions are not allowed for the pragma specified.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is the function name.

**User response:** Specify a non-member function in the pragma or remove the pragma.

#### CCN6415

The declaration "%2\$s" specified in "pragma %1\$s" is a member variable. The pragma is ignored.

**Explanation:** Member variables are not allowed for the pragma specified.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is the declaration.

**User response:** Specify a non-member variable in the pragma or remove the pragma.

#### CCN6416

The declaration "%2\$s" specified in "pragma %1\$s" is a structure tag. The pragma is ignored.

**Explanation:** Structure tags are not allowed for the pragma specified.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is the declaration.

**User response:** Fix the declaration in the pragma or remove the pragma.

# CCN6417

The declaration "%2\$s" specified in "pragma %1\$s" must have "%3\$s" linkage. The pragma is ignored.

**Explanation:** The pragma is only valid for declarations with specific linkage.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is the declaration specified in the pragma. "%3\$s" is the required linkage for the pragma.

**User response:** Specify a declaration with the correct linkage or remove the pragma.

# CCN6418

The declaration "%1\$s" specified in pragma "%2\$s" is not compatible with the declaration "%3\$s", which is also specified in the pragma. The pragma will be ignored.

**Explanation:** The two declarations specified in the pragma are incompatible.

In the message text:

"%1\$s", and "%3\$s" are declarations, "%2\$s" is the pragma name.

**User response:** Change the declarations or remove the pragma.

#### CCN6420

The packing boundary for "pragma pack" must be 1, 2, 4, 8, or 16. The pragma is ignored.

**Explanation:** A "pragma pack" has been specified with an invalid boundary.

**User response:** Change the pack boundary for the "pragma pack" to one of the accepted boundaries or remove the pragma.

#### CCN6421

Attempting to pop an empty "pragma pack" stack. The current pack setting may be invalid.

**Explanation:** The specified "pragma pack" stack is empty. A pop operation is not permitted.

**User response:** Remove the pop operation, or ensure that the "pragma pack" stack has been set up correctly.

#### CCN6422

The identifier does not exist within the "pragma pack" stack. The current alignment may change.

**Explanation:** The current alignment may change because the identifier does not exist on the pragma pack stack.

**User response:** Change the name of the identifier specified in the pragma.

# CCN6423

The declaration in "pragma map" has already been mapped to "%1\$s". The pragma is ignored.

**Explanation:** The pragma is ignored because the declaration has already been mapped.

In the message text:

"%1\$s" is the previous mapping of the declaration.

**User response:** Remove the pragma or change the declaration.

# CCN6424

Priority values in successive "pragma priority" statements must increase.

**Explanation:** The priority specified is lower than a priority specified in a previous pragma.

**User response:** Increase the priority specified in the pragma.

#### CCN6425

The value given for the "pragma priority" is in the range reserved for the system.

**Explanation:** The priority specified in the pragma is in the range reserved for the system. This may cause

#### CCN6426 • CCN6435

unexpected behavior because the declaration may have a higher priority than system variables.

**User response:** Lower the specified priority.

CCN6426

The function "%1\$s" in "pragma alloc\_text" is already specified. The pragma is ignored.

Explanation: The pragma is ignored because the function has already been specified in a previous pragma alloc\_text.

In the message text:

"%1\$s" is the name of the function specified in the pragma.

**User response:** Remove the pragma.

CCN6427

The specified object model "%1\$s" is not known. The pragma is ignored.

**Explanation:** The pragma is ignored because the object model is not recognized.

In the message text:

"%1\$s" is the unrecognized object model.

**User response:** Change the specified object model to one that is known.

CCN6428

The "pragma object\_model" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the object model stack is empty.

User response: Remove the pragma or ensure that the stack is not empty.

CCN6429

The identifier "%1\$s" in "pragma import" is already specified on line %2\$s of "%3\$s". The pragma is ignored.

Explanation: The pragma is ignored because the identifier has already been specified in a previous pragma import.

In the message text:

"%1\$s" is the name of the repeated identifier and %2\$s and "%3\$s" are the coordinates of the previous pragma.

**User response:** Remove the pragma.

CCN6430

The identifier "%1\$s" in "pragma export" is already specified. The pragma is ignored.

**Explanation:** The pragma is ignored because the identifier has already been specified in a previous pragma export.

In the message text:

"%1\$s" is the name of the repeated identifier.

**User response:** Remove the pragma.

CCN6431

The "pragma enum" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the pragma enum stack is empty.

**User response:** Remove the pragma or ensure that the pragma stack is not empty.

CCN6432

The function "%1\$s" in "pragma alloc\_text" is already specified with "pragma code\_seg".

**Explanation:** The pragma is in conflict with a previous pragma code\_seg.

In the message text:

"%1\$s" is the name of the function indicated in the pragma.

**User response:** Remove the current or the previous pragma.

**CCN6433** 

The function "%1\$s" in "pragma weak" is already specified. The pragma is ignored.

**Explanation:** The pragma is ignored because it has already been specified in a pragma weak.

In the message text:

"%1\$s" is the name of the function specified in the pragma.

**User response:** Remove the pragma.

CCN6434

The message id "%1\$s" in "pragma report" is not a valid. The pragma is ignored.

Explanation: The pragma is ignored because the message id is not valid.

In the message text:

"%1\$s" is the message id that must be changed.

User response: Change the message id.

CCN6435

The function "%1\$s" in "pragma mc\_func" is already specified. The pragma is ignored.

**Explanation:** The pragma is ignored because the function has already been specified in a pragma mc\_func.

In the message text:

"%1\$s" is the name of the function specified in the pragma.

**User response:** Remove the pragma.

CCN6436 The function "%1\$s" in "pragma reg\_killed\_by" is already specified. The pragma is ignored.

**Explanation:** The pragma is ignored because the function has already been specified in a pragma reg\_killed\_by.

In the message text:

"%1\$s" is the name of the function specified in the pragma.

User response: Remove the pragma.

# CCN6437 "pragma reg\_killed\_by" must be used with a corresponding "pragma mc\_func".

**Explanation:** The function specified in the pragma must have been previously specified in a pragma mc\_func.

**User response:** Provide the pragma mc\_func before the pragma reg\_killed\_by.

#### CCN6438

The file "%1\$s" should be specified in an "#include" directive or as a source file in the configuration file.

**Explanation:** Informational message indicating that the file should be an included file or it should be specified in the configuration file.

In the message text:

"%1\$s" is the name of the file that should be included.

**User response:** Ensure that the file is specified in an include directive.

# CCN6439

Two or more expressions must be specified in "pragma disjoint". The pragma is ignored.

**Explanation:** The pragma is ignored because it must have two or more expressions specified.

**User response:** Ensure that at least two expressions are specified in the pragma.

#### **CCN6440**

The expressions "%1\$s" and "%2\$s" specified in "pragma disjoint" have incompatible types. The pragma is ignored.

**Explanation:** The pragma is ignored because the types specified in the two expressions are incompatible.

In the message text:

"%1\$s" and "%2\$s"are the two incompatible expressions, one of which must be changed.

**User response:** Change one of the expressions to have

a compatible type with the other.

#### CCN6441

The expression "%1\$s" specified in "pragma disjoint" is not a valid type. The pragma is ignored.

**Explanation:** The pragma is ignored because the type specified in the expression is not correct.

In the message text:

"%1\$s" is the expression specifying the invalid type.

**User response:** Change the expression to specify a valid type.

#### CCN6442

The "pragma align" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the pragma align stack is empty.

**User response:** Remove the pragma or ensure that the pragma align stack is not empty.

# CCN6443

"pragma %1\$s" overrides the original option value.

**Explanation:** Informational message indicating that the pragma is overriding the option value.

In the message text:

"%1\$s" is the name of the pragma that is overriding the option value.

**User response:** See the primary message.

# CCN6444

The "pragma namemangling" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the pragma namemangling stack is empty.

**User response:** Remove the pragma or ensure that the pragma namemangling stack is not empty.

#### CCN6445

The size specified for "pragma pointer\_size" must be 32 or 64. The pragma is ignored.

**Explanation:** The pragma is ignored because the size specified was not 32 or 64.

**User response:** Change the size specified to be 32 or 64.

# CCN6446

The "pragma pointer\_size" stack is empty.

**Explanation:** The pragma is ignored because the pragma pointer\_size stack is empty.

**User response:** Remove the pragma or ensure that the pragma pointer\_size stack is not empty.

#### CCN6447 • CCN6460

**CCN6447** 

The argument "%2\$s" specified in "pragma %1\$s" is not a defined class.

**Explanation:** The pragma is ignored because the argument does not specify a defined class.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the name of the class that must be defined.

**User response:** Change the argument or ensure that the class is defined.

#### **CCN6448**

"A pragma IsHome" is defined for "%1\$s", but there is no matching "pragma HasHome". The pragma is ignored.

**Explanation:** The pragma is ignored because there must be a previously specified pragma HasHome for the argument.

In the message text:

"%1\$s" is the argument that must have a corresponding pragma HasHome.

**User response:** Remove the pragma or ensure that there is a previous corresponding pragma HasHome.

#### CCN6449

More than one "pragma IsHome" for "%1\$s" in different targets.

**Explanation:** There are more than one pragma IsHome specified for the arguments in different targets.

In the message text:

"%1\$s" is the argument that has multiple pragma IsHome directives.

**User response:** Remove the extra pragma IsHome directives.

# CCN6450

"pragma %1\$s" has already been specified for function "%2\$s". The pragma is ignored.

**Explanation:** The pragma is ignored because it has already been specified for the same function.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is the qualified name of the function.

**User response:** Remove the pragma or change the declaration.

#### CCN6451

Using #pragma pack(%1\$s), the C++ compiler may generate a different class layout than the C compiler generates. Use #pragma pack(%1\$s:C\_Compat) to get the C compiler's behavior.

Explanation: The class layout with #pragma pack(%1\$s) may be different than the class layout generated by the C compiler. Use #pragma pack(%1\$s:C\_Compat) to get the same class layout.

In the message text:

"%1\$s" is the pragma pack value.

**User response:** Use #pragma pack(%1\$s:C\_Compat) to get the C compiler's behavior, but it may cause backward incompatibility with an older version of the C++ compiler.

#### CCN6455

Member "%1\$s" is not declared as specified in pragma "%2\$s". The pragma is ignored.

**Explanation:** The declaration of the member in the pragma does not match the declaration for that member in the member's class.

In the message text:

"%1\$s" is the class member. "%2\$s" is the name of the pragma.

**User response:** Fix the declaration in the pragma or remove the pragma.

#### CCN6456

Only dot member access is allowed in pragma "%1\$s". The pragma is ignored.

**Explanation:** Pragma "%1\$s" is only allowed to use class member access with the dot operator.

In the message text:

"%1\$s" is the name of the pragma.

**User response:** Change the pragma to use dot member access or remove the pragma.

# CCN6457

Member "%1\$s" is at offset "%2\$s", not at offset "%3\$s" as specified in pragma assert field offset.

**Explanation:** The assertion in the pragma assert\_field\_offset has been violated. The member is not at the specified offset.

In the message text:

"%1\$s" is the member name. "%2\$s" is the actual offset. "%3\$s" is the offset specified in the pragma.

**User response:** Fix the offset or remove the pragma.

# CCN6460

"%1\$s" has not been declared before the pragma pointer directive.

**Explanation:** "%1\$s" must be declared before the pragma.

In the message text:

"%1\$s" is the type.

**User response:** Add a declaration for "%1\$s" before the pragma or remove the pragma.

CCN6461 "%1\$s" is not a 16 byte void pointer.

Explanation: The pragma has an argument.

In the message text:

"%1\$s" is the argument to the pragma.

**User response:** Fix the argument to the pragma or remove the pragma.

CCN6463 "%1\$s" has been used in a declaration, the pragma is ignored.

**Explanation:** The name has already been used previously and cannot be used again by the pragma.

In the message text:

"%1\$s" is the argument to the pragma.

**User response:** Fix the argument to the pragma or remove the pragma.

CCN6464 "%1\$s" is not a typedef name.

**Explanation:** The pragma requires a typedef name as an argument and the one provided is not one.

In the message text:

"%1\$s" is the argument to the pragma.

**User response:** Fix the argument to the pragma or remove the pragma.

CCN6465 Instruction sequence for "pragma mc\_func" contains the character "%1\$s" that is not a hexadecimal digit.

**Explanation:** The pragma requires a hexadecimal argument and one has not been provided.

In the message text:

"%1\$s" is the invalid character specified in the pragma.

**User response:** Fix the instruction sequence for the pragma or remove the pragma.

CCN6466 Instruction sequence for "pragma mc\_func" contains odd number of hexadecimal digits.

**Explanation:** The pragma requires an argument which is an instruction sequence consisting of an even number of hexadecimal digits.

**User response:** Fix the instruction sequence for the pragma or remove the pragma.

CCN6467 The include directive for the primary source file "%1\$s" is ignored.

**Explanation:** It was not possible for the compiler to process the file as a primary source file.

In the message text:

"%1\$s" is the source file name.

**User response:** Remove the include directive from the configuration file.

CCN6469 The function "%2\$s" specified in "pragma %1\$s" cannot be found.

**Explanation:** Name lookup failed for the function specified in the pragma.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the function name.

**User response:** Fully qualify the function, specify a different function, or remove the pragma.

CCN6470 The source file "%1\$s" is being included by the source file "%2\$s", which has different options in effect.

**Explanation:** The source file "%1\$s" has been specified as a primary source file in the configuration file and it's options do not match the options specified by another primary source file that includes "%1\$s".

In the message text:

"%1\$s' is the included source file. ""%2\$s" is the source file including "%1\$s""

**User response:** Change the options to be consistent or change "\$1\$s" to not be a primary source file.

CCN6492 No argument is specified for "pragma define". The pragma is ignored.

**Explanation:** The pragma requires an argument and one was not specified.

**User response:** Specify an argument or remove the pragma.

CCN6493 Duplicate argument "%1\$s" in "pragma disjoint". The pragma is ignored.

**Explanation:** The argument indicated was duplicated in the argument list specified for the pragma.

In the message text:

"%1\$s" is the duplicate argument specified in the pragma.

**User response:** Remove the duplicate argument or remove the pragma.

The suboption "%1\$s" for "pragma %2\$s" is not supported on the target platform. The pragma is ignored.

**Explanation:** The suboption for the pragma indicated is not supported on this operating system.

In the message text:

"%1\$s" is the name of the suboption that is unsupported. "%2\$s" is the name of the pragma.

User response: Specify a different suboption or remove the pragma.

CCN6495

Unexpected text "%2\$s" found in "pragma %1\$s". The pragma is ignored.

**Explanation:** A syntax error has been found while processing the pragma, causing it to be ignored.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the text causing the syntax error.

User response: Fix the syntax of the pragma or remove the pragma.

CCN6496

Unexpected text "%2\$s" found in "pragma %1\$s". The rest of the pragma directive is ignored.

**Explanation:** A syntax error has been found while processing part of the pragma, causing part of it to be ignored.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the text causing the syntax error.

**User response:** Fix the syntax of the pragma or remove the pragma.

CCN6497

An implicit "}" does not find a matching implicit 'extern "C" {'. An extra "}" may be present.

**Explanation:** An unmatched "}" was detected while processing a linkage specification.

**User response:** Remove the extra "}" if one exists.

**CCN6498** 

The function "%2\$s" specified in "pragma %1\$s" has already been defined. The pragma is ignored.

**Explanation:** The pragma specified must be placed before the definition of the function to which it refers.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the name of the function.

**User response:** Move the pragma to before the

definition of the function or remove the pragma.

CCN6499

The function "%2\$s" specified in "pragma %1\$s" is virtual. The pragma is ignored.

**Explanation:** The pragma specified requires an argument that is not a virtual function.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the name of the function.

User response: Change the pragma to specify a non-virtual function or remove the pragma.

**CCN6600** 

"main" should have a return type of type "int".

**Explanation:** A return type other than "int" has been specified for "main".

**User response:** Change the return type of "main" to be "int".

CCN6601

A local class cannot have member templates.

**Explanation:** Member templates can only be defined in namespace scope classes.

**User response:** Remove the template from the local class, or move the class to non-local scope.

CCN6602

The partial specialization "%1\$s" cannot have template parameters that have default values.

Explanation: Default template arguments are not allowed on partial specializations.

In the message text:

"%1\$s" is the partial specialization.

**User response:** Remove the default template arguments.

**CCN6603** 

Default template parameter arguments cannot be followed by uninitialized template parameters.

Explanation: Just like function parameters, all template parameters following a template parameter with a default argument must also have default arguments.

User response: Add the missing default arguments or remove the existing one.

The template parameter "%1\$s" cannot be used in a partially specialized non-type argument expression.

**Explanation:** The use of a template parameter in an expression for a non-type template argument in partial specialization is not allowed.

In the message text:

"%1\$s" is the template parameter.

**User response:** Correct the non-type template argument expression.

**CCN6605** 

The argument list for the partial specialization "%1\$s" is equivalent to the implicit argument list of the primary template.

**Explanation:** A partial specialization must specialize something in the argument list.

In the message text:

"%1\$s" is the partial specialization.

**User response:** Change the argument list of the partial specialization.

**CCN6606** 

The non-type template parameter, "%1\$s", must have an integral, enumeration, pointer to object, pointer to function, lvalue reference, or pointer-to-member type.

**Explanation:** No other types are allowed.

In the message text:

"%1\$s" is the non-type template parameter.

**User response:** Correct the non-type template parameter type.

**CCN6607** 

All array dimensions for "%1\$s" should be specified and should be greater than zero.

**Explanation:** An array dimension is missing or is negative.

In the message text:

"%1\$s" is the array.

**User response:** Ensure that all dimensions are specified as non-negative numbers.

**CCN6608** 

An anonymous %1\$s should only define non-static data members.

**Explanation:** Static data members and non-data members are not allowed in anonymous aggregates.

In the message text:

%1\$s is the keyword union, struct, or class.

**User response:** Remove the member declaration.

**CCN6609** 

A using declaration cannot be used to declare "%1\$s".

**Explanation:** The using declaration cannot be used

here.

In the message text:

"%1\$s" is the declarator.

**User response:** Remove the using declaration.

CCN6610

"%1\$s" must not be declared as import and defined.

**Explanation:** The "\_Import" specifier cannot be specified on a definition.

In the message text:

"%1\$s" is the function.

**User response:** Remove the "\_Import" specifier.

CCN6611

The current option settings do not allow the use of "long long".

**Explanation:** The declaration type is "long long" but this type is disallowed due to option settings.

**User response:** Change the type of the declaration or the option settings to allow "long long".

CCN6612

The static variable "%1\$s" is not visible where "%2\$s" is used in a #include directive.

**Explanation:** A static variable is being referenced in an include file and is not visible.

In the message text:

"%1\$s" is the static variable. "%2\$s" is the header file.

**User response:** Remove the static specifier from the declaration.

CCN6613

The static function "%1\$s" is not visible where "%2\$s" is used in a #include directive.

**Explanation:** A static function is being referenced in an include file and is not visible.

In the message text:

"%1\$s" is the static function. "%2\$s" is the header file.

**User response:** Remove the static specifier from the declaration.

"%1\$s" must be the last data member in its class because "%2\$s" contains a zero-dimension array.

**Explanation:** Only the last non-static data member can have a zero dimension.

In the message text:

"%1\$s" is the member. "%2\$s" is the union, struct, or

**User response:** Move the declaration to be the last in the class.

#### **CCN6615** Only the first array bound can be omitted.

**Explanation:** For a multi-dimensional array, the compiler can determine the size of the first bound based on the number of initializers. It is unable to compute any other omitted array bounds.

User response: Specify all array bounds or leave only the first bound unspecified.

#### **CCN6616**

A pointer-to-member should not be converted from the virtual base "%1\$s" to the derived class "%2\$s".

**Explanation:** The conversion is from a virtual base class to a derived class.

In the message text:

"%1\$s" is the virtual base. "%2\$s" is the derived class.

**User response:** See the primary message.

### **CCN6617**

The incomplete type "%1\$s" is not allowed in an exception-specification.

**Explanation:** Only complete types are allowed in an exception-specification.

In the message text:

"%1\$s" is the incomplete type.

User response: Correct the exception specification type list.

#### **CCN6618**

"%1\$s" is not allowed in an exception-specification because "%2\$s" is incomplete.

Explanation: Only pointers to complete types are allowed in pointer exception-specification types.

In the message text:

"%1\$s" is the pointer type. "%2\$s" is the incomplete

**User response:** Correct the exception-specification type list.

### **CCN6619**

The type "%1\$s" is not valid in this context.

**Explanation:** The type "void" is not valid for this

declaration.

In the message text:

"%1\$s" is the type.

User response: Change the type.

#### CCN6620

"%1\$s" must be declared to have "stdcall" linkage.

**Explanation:** The "stdcall" specifier must be specified.

In the message text: "%1\$s" is the function.

**User response:** Add the "stdcall" specifier.

#### CCN6621

The explicit specialization "%1\$s" must be declared in the nearest enclosing namespace scope of the template.

**Explanation:** The explicit specialization declaration must be in the namespace scope of the nearest enclosing namespace of the primary template or a namespace in the enclosing namespace set.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Move the explicit specialization declaration to a correct scope.

# CCN6622

The explicit specialization "%1\$s" must be defined in a namespace that encloses the declaration of the explicit specialization.

Explanation: An explicit specialization must be defined at namespace scope, in the same or an enclosing namespace as the declaration.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Move the explicit specialization definition to the correct scope.

#### CCN6623

The explicit specialization "%1\$s" cannot have default function arguments.

**Explanation:** Default function arguments are not allowed on an explicit specialization.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Remove the default function arguments.

The partial specialization "%1\$s" must be declared in the same scope as the primary template or in a namespace scope that encloses the primary template.

**Explanation:** A partial specialization declaration must be in the same scope or in an enclosing namespace scope of the primary template.

In the message text:

"%1\$s" is the partial specialization.

**User response:** Move the partial specialization declaration to the correct scope.

#### CCN6625

The explicit specialization "%1\$s" must not be declared in the scope of a template.

**Explanation:** An explicit specialization must be declared in the namespace containing the primary template.

In the message text:

"%1\$s" is the explicit specialization.

**User response:** Remove the explicit specialization.

#### CCN6626

At least one template argument in a partial specialization must depend on a template parameter.

**Explanation:** A partial specialization cannot be fully specialized.

**User response:** Change the declaration to an explicit specialization or change the template arguments to be partially specialized.

#### CCN6627

A statement type that follows the pragma "%1\$s" is invalid. The pragma is ignored.

**Explanation:** A valid statement type is required to be followed by the pragma.

In the message text:

"%1\$s" is the name of the pragma.

**User response:** Use the correct statement type or remove the pragma.

# CCN6628

Every template parameter for a constructor template must be used in the parameter list of the constructor.

**Explanation:** There is no way to specify an explicit template argument list for a constructor template.

**User response:** Change the template parameter list of the constructor template.

#### CCN6629

Every template parameter for a conversion function template must be used in the return type.

**Explanation:** There is no way to specify an explicit template argument list for a conversion function template.

**User response:** Change the template parameter list of the conversion function template

#### CCN6630

Every template parameter for a partial specialization must be used in the template argument list.

**Explanation:** The extra template parameters are not used so they are not allowed.

**User response:** Change the parameter list of the partial specialization.

#### CCN6631

A template parameter should not be used in its own default argument.

**Explanation:** A template parameter can be used in subsequent template parameters and their default arguments.

**User response:** Change or remove the default argument.

### CCN6632

The length of the identifier exceeds the maximum limit of "%1\$s" for a name with "%2\$s" linkage.

**Explanation:** The identifier name is too large.

In the message text:

"%1\$s" is the maximum permitted identifier length. "%2\$s" is the linkage specifier.

**User response:** Replace the identifier with a smaller identifier.

# CCN6633

The name "%1\$s" is not a recognized built-in declaration.

**Explanation:** The function specified is not a built-in function.

In the message text:

"%1\$s" is the function name.

**User response:** Change the declaration so that it does not specify that the function is built in.

# CCN6634

An array element must not have type "%1\$s".

**Explanation:** The type of the array is invalid.

In the message text:

"%1\$s" is the type.

### CCN6635 • CCN6646

**User response:** Change the type of the array.

CCN6635 There cannot be a reference to a

reference.

**Explanation:** A reference to a reference is invalid.

**User response:** Remove the extra reference.

CCN6636 There cannot be a pointer to a reference.

**Explanation:** A pointer to a reference is invalid.

User response: Change the declaration.

**CCN6637** There cannot be a pointer-to-member

with reference type.

**Explanation:** A pointer to a member reference is

invalid.

**User response:** Change the declaration.

CCN6638 There cannot be an array of references.

**Explanation:** The element type of an array cannot be a reference type, void type, function type, or an abstract class type.

**User response:** Change the element type of the array to a valid type.

CCN6639 The behavior of long type bit fields has

changed from previous releases of this compiler. In 64-bit mode, long type bit fields now default to long, not int.

**Explanation:** The bit field will default to long, this is a change in behavior.

**User response:** No response required.

**CCN6640** Cannot take the address of the machine-coded function "%1\$s".

**Explanation:** It is invalid to take the address of a machine-coded function.

In the message text:

"%1\$s" is the function.

**User response:** Change the expression.

CCN6641 The use of vector type is invalid for architecture level "%1\$s".

Explanation: The effective architecture value specified on either #pragma arch\_section or a compiler option does not support vector.

In the message text:

"%1\$s" is the architecture level specified on #pragma arch\_section or a target architecture option.

**User response:** Use architecture which supports vector processing, or remove the use of vector.

CCN6642

The packed attribute is valid only for class and struct nonstatic data members. The attribute is ignored.

**Explanation:** The packed attribute has no effect on static members or function or namespace scoped variables.

**User response:** Remove the packed attribute.

CCN6643 "main" cannot be declared as a template function.

Explanation: "main" implicitly has "C" linkage; a template function may not have "C" linkage.

User response: Do not define "main" as a template function.

**CCN6644** The unnamed bit field is too small: %1\$s bits are needed for "%2\$s".

**Explanation:** The size of the unnamed bit field is not large enough to contain all of the possible values.

In the message text:

%1\$s is the number of bits. "%2\$s" is the name of the enumerated type.

**User response:** Increase the size of the unnamed bit field.

CCN6645

The bit field "%1\$s" is too small: %2\$s bits are needed for "%3\$s".

**Explanation:** The size of the bit field is not large enough to contain all of the possible values.

In the message text:

"%1\$s" is the bit field. %2\$s is the number of bits. "%3\$s" is the name of the enumerated type.

**User response:** Increase the size of the bit field.

**CCN6646** 

The explicit instantiation of member "%1\$s" must have a definition.

**Explanation:** The definition must be available in order for an instantiation to be done.

In the message text:

"%1\$s" is the member.

**User response:** Define the static member.

CCN6648 Clause "%1\$s" is not valid in "# pragma

omp %2\$s".

**Explanation:** The clause is not valid in #pragma omp.

In the message text:

"%1\$s" is the omp clause "%2\$s" is the specifier of #pragma omp.

User response: Remove the clause.

CCN6649 The "%1\$s" clause was already specified.

**Explanation:** The clause was specified and should not be re-specified.

In the message text:

"%1\$s" is the omp clause.

**User response:** Remove the clause.

CCN6650 "# %1\$s %2\$s" is not valid for the "%3\$s" statement.

Explanation: #pragma %1\$1 is not valid for the

statement.

In the message text:

"%1\$1s" is the pragma construct name. "%2\$s" is the specifier of #pragma construct. "%3\$s" is the statement.

**User response:** Remove the #pragma %1\$1 or change the statement.

CCN6652 "%1\$s" is not allowed in a structured

**Explanation:** The statement is not allowed in a structured block

In the message text:

lexical block

"%1\$s" is the statement.

**User response:** Remove the statement.

CCN6653 Branching out of a structured block is not allowed.

**Explanation:** The label statement must be within the

**User response:** Don't branch out of a structured block

CCN6654 Branching into a structured block is not allowed.

**Explanation:** The label statement must be out of the lexical block

User response: Don't branch in a structured block

CCN6655 The for-init-statement is missing, the for loop is not in the canonical form.

**Explanation:** The for-init-statement is missing, the for loop is not in the canonical form.

**User response:** Check the for-init-statement.

CCN6656 The for-init-statement of the for loop is not in the canonical form.

**Explanation:** The for-init-statement of the for loop is not in the canonical form.

**User response:** Check the for-init-statement.

CCN6657 The iteration variable must be a signed or unsigned integer or random access iterator type.

**Explanation:** The iteration variable must be a signed or unsigned integer or random access iterator type.

**User response:** Check if the iteration variable is a signed or unsigned integer or random access iterator type.

CCN6658 The condition is missing, the for loop is not in the canonical form.

**Explanation:** The condition is missing, the for loop is not in the canonical form.

**User response:** Add the condition in the for loop.

CCN6659 The condition of the for loop is not in the canonical form.

**Explanation:** The condition of the for loop is not in the canonical form.

**User response:** Check the condition in the for loop.

CCN6660 The increment expression is missing, the for loop is not in the canonical form.

**Explanation:** The for loop is missing the increment expression.

**User response:** Add the increment expression in the for loop.

CCN6661 The increment expression of the for loop is not in the canonical form.

**Explanation:** The increment expression of the for loop is not in the canonical form.

**User response:** Check the increment expression in the for Loop.

#### CCN6663 • CCN6675

CCN6663

Incorrect assignment of a restrict qualified pointer. Only outer-to-inner scope assignments between restrict pointers are allowed. This may result in incorrect program behavior.

**Explanation:** Only outer-to-inner scope assignments between restrict pointers are allowed.

**User response:** Check the assignment.

CCN6664

The variable "%1\$s" has undefined data scope.

**Explanation:** The variable should have a defined data scope.

In the message text:

"%1\$s" is the variable.

**User response:** Specify a data scope for the variable.

**CCN6665** 

The value of the expression must be greater than zero.

**Explanation:** The value of the expression must be greater than zero.

**User response:** Change the chunk size to a positive value.

CCN6666

An "ordered" directive must be within a dynamic extent of a "for" or "parallel for" construct.

**Explanation:** An "ordered" directive must be within a dynamic extent of a "for" or "parallel for" construct.

**User response:** Check if the "ordered" directive is within a "for" or "parallel for" construct.

**CCN6667** 

The related "for" or "parallel for" construct must have an "ordered" clause.

**Explanation:** The related "for" or "parallel for" construct must have an "ordered" clause.

**User response:** Check if the related "for" or "paraller for" construct have an "ordered" clause.

**CCN6668** 

The "ordered" directive must not be executed more than once.

**Explanation:** The "ordered" directive must not be executed more than once.

**User response:** Check if the "ordered" directive is executed more than once.

CCN6670

Invalid statement type in "atomic" construct.

**Explanation:** Invalid statement type in "atomic"

construct.

**User response:** Change the statement type in "atomic"

construct.

CCN6671

Invalid expression type in "atomic"

construct.

Explanation: Invalid expression type in "atomic"

construct.

**User response:** Check the expression type in "atomic"

construct.

CCN6672

Expression in "atomic" construct is not

scalar type.

**Explanation:** Expression in "atomic" construct is not

scalar type.

User response: Change the expression to scalar type.

CCN6673

The variable "%1\$s" has already been specified in one of the data scope clauses.

Explanation: The same variables appear on same

named clauses.

In the message text:

"%1\$s" is the variable

**User response:** Change the variable.

CCN6674

The variable "%1\$s" must not have a reference type.

**Explanation:** A reference type is not applied for the

variable.

In the message text:

"%1\$s" is the variable.

**User response:** Change the variable's type.

CCN6675

The variable "%1\$s" must not have an incomplete type.

**Explanation:** The variable should have a complete

type.

In the message text:

"%1\$s" is the variable.

**User response:** Check the variable's type.

CCN6676 The class of variable "%1\$s" must have a default constructor.

**Explanation:** The class should have a default constructor.

In the message text:

"%1\$s" is the class name.

**User response:** Add a default constructor in the class.

CCN6677 The \_\_callback keyword is not associated with a function pointer.

**Explanation:** The \_\_callback keyword is restricted to qualify function pointers.

**User response:** Change the declaration or remove the \_\_callback keyword.

CCN6678 Critical constructs with the same name cannot be nested.

**Explanation:** Critical directives with the same name are not allowed to be nested inside each other.

**User response:** Change the name of a critical directive.

CCN6679 "%1\$s" cannot be nested within "%2\$s".

**Explanation:** Some directives are not permitted in the dynamic extent of other directives.

In the message text:

"%1\$s" is the inside directive name, "%2\$s" is the outside directive name.

**User response:** Check both directives.

CCN6680 The smallest statement that contains a "%1\$s" directive must be a block.

**Explanation:** The smallest parent statement of the directive must be a block.

In the message text:

"%1\$s" is the directive name.

**User response:** Remove the directive or change the parent statement to a block.

CCN6682 The variable "%1\$s" must not have a pointer type.

**Explanation:** The variable can not have a pointer type.

In the message text:

"%1\$s" is the variable name.

**User response:** Check the declaration.

CCN6683 The variable "%1\$s" is already listed in a reduction clause.

**Explanation:** The variable should not be listed in a reduction clause twice.

In the message text:

"%1\$s" is the variable name.

**User response:** Don't list the variable in a reduction clause more than once.

CCN6684 Variable "%1\$s" must be shared in the enclosing context.

**Explanation:** Variable listed in the reduction clause must be shared in the enclosing context.

In the message text:

"%1\$s" is the variable name.

**User response:** Check the scope of the variable in the reduction clause.

CCN6685 Variable "%1\$s" must not be listed in both a shared and a reduction clause.

**Explanation:** A variable must not be listed in a "shared" clause.

In the message text:

"%1\$s" is the variable name.

**User response:** Check the scope of the variable in the reduction clause.

CCN6686 Variable "%1\$s" must not be const-qualified.

**Explanation:** The variable should not be const-qualified.

In the message text:

"%1\$s" is the variable name.

**User response:** Remove the const qualifier of the variable.

CCN6687 The type of variable "%1\$s" is not valid for the reduction operator.

**Explanation:** The variable must not be: a reference, a pointer, or const-qualified.

In the message text:

"%1\$s" is the variable name.

**User response:** Change the declaration of the variable.

The copy assignment operator of class "%1\$s" in OMP "%2\$s" clause does not exist.

**Explanation:** Missing the copy assignment operator of the class.

In the message text:

"%1\$s" is the class name, "%2\$s" is the OMP clause.

User response: Add a copy assignment operator in the class.

**CCN6689** 

The variable "%1\$s" is not a threadprivate variable.

**Explanation:** The variable is not a threadprivate

variable.

In the message text:

"%1\$s" is the variable name.

**User response:** Change the variable to a threadprivate variable.

CCN6690

The variable "%1\$s" cannot have a const-qualified type in the OMP "%2\$s"

**Explanation:** The variable must not have a const-qualified type in the OMP clause.

In the message text:

"%1\$s" is the variable name, "%2\$s" is the OMP clause.

**User response:** Remove the const-qualified type of the variable.

CCN6691

"%1\$s" cannot be nested within "%2\$s" when both bind to the same parallel region.

**Explanation:** The constructs that bind to the same parallel are not allowed to be nested inside each other.

In the message text:

"%1\$s" is the inside construct name, "%2\$s" is the outside construct name.

**User response:** Do not nest the constructs.

CCN6692

The class "%1\$s" of threadprivate variable "%2\$s" declared with an explicit initializer must have a copy constructor.

**Explanation:** The class declared with an explicit initializer should have a copy constructor.

In the message text:

"%1\$s" is the class name, "%2\$s" is the variable name.

**User response:** Add a copy constructor in the class.

**CCN6693** 

Local labels can only be preceded by other local label declarations in a lexical

**Explanation:** The local label declaration is not the first statement in the lexical block or it is not strictly preceded in the lexical block by local label declarations.

**User response:** Move the local label declaration before any other statements in the lexical block.

CCN6694

The class of variable "%1\$s" has an ambiguous default constructor.

**Explanation:** The default constructor of the class is ambiguous.

In the message text:

"%1\$s" is the variable name.

User response: Check the default constructor of the class.

**CCN6695** 

The class of variable "%1\$s" has an ambiguous copy constructor.

**Explanation:** The assignment operator of the class is ambiguous.

In the message text:

"%1\$s" is the variable name.

**User response:** Check the copy constructor of the class.

**CCN6696** 

The class of variable "%1\$s" has an ambiguous copy assignment operator.

**Explanation:** The assignment operator of the class is ambiguous.

In the message text:

"%1\$s" is the variable name.

**User response:** Check the assignment operator of the class.

**CCN6697** 

The copy constructor of class "%1\$s" in the OMP "%2\$s" clause does not exist.

Explanation: Missing copy constructor of a class in the OMP clause.

In the message text:

"%1\$s" is the class name, "%2\$s" is the clause name.

**User response:** Add a copy constructor in the class.

CCN6698 The current option settings do not allow

the use of "%1\$s".

**Explanation:** The "%1\$s" is not supported by the option.

In the message text:

"%1\$s" is the unsupported feature.

User response: Use the option to support "%1\$s".

**CCN6699** 

Pragma "%1\$s" may not be supported in next releases. Pragma "%2\$s" provides the same functionality, and should be used.

**Explanation:** An old sub-option was used with the pragma. The sub-option may not be supported in next releases.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the name of another pragma.

**User response:** Use a new sub-option which provides the same functionality.

CCN6700 Reduction variable "%1\$s" may not be accessed in an explicit task.

**Explanation:** Reduction variable cannot be accessed in an explicit task.

**User response:** No user response is required.

CCN6800 The divisor for the modulus or division operator must not be zero.

**Explanation:** A division-by-zero condition has been detected.

**User response:** Change the expression.

CCN6801 The result of expression evaluation resulted in an overflow.

**Explanation:** An overflow condition has been detected.

**User response:** Change the expression.

CCN6802 The result of expression evaluation resulted in an underflow.

**Explanation:** An underflow condition has been

detected.

**User response:** Change the expression.

CCN7500 The option "%1\$s" is not supported.

**Explanation:** The command line contained an option that is not supported. Note that some option parameters must not have spaces between the option and the parameter.

In the message text:

"%1\$s" is an option.

**User response:** Remove the option. Check the syntax of the options.

CCN7501 Suboption "%1\$s" for option "%2\$s" is not supported on the target platform.

**Explanation:** The option has been specified with a suboption that is not supported on the target platform.

In the message text:

"%1\$s" is the suboption. "%2\$s" is the option.

**User response:** Change the suboption, or remove the option.

CCN7502 Missing value for option "%1\$s".

**Explanation:** The option was missing a required parameter. See the "User's Guide" for details on the option.

In the message text:

"%1\$s" is an option name

**User response:** Add a value for the option.

CCN7503 Unrecognized value "%1\$s" specified with option "%2\$s".

**Explanation:** An inappropriate value was used with the option.

In the message text:

"%1\$s" is the value specified with the option,. "%2\$s" is the option name.

**User response:** Remove the unrecognized value.

CCN7504 "%1\$s" is not a valid suboption for "%2\$s". The option is ignored.

**Explanation:** The command line contained an option with an invalid suboption.

In the message text:

"%1\$s" is the suboption, "%2\$s" is the option.

**User response:** Remove the suboption.

### CCN7505 • CCN7519

CCN7505 The value given for the "priority" option is in the range reserved for the system.

**Explanation:** Priority values less than -2147482624 are reserved for system purposes.

**User response:** Change the priority value so that it is greater than -2147482624.

CCN7506 "%1\$s" is no longer supported. The option is ignored.

Explanation: The command line contained an option that is no longer supported by this release.

In the message text:

"%1\$s" is the outdated option.

**User response:** Remove the option.

CCN7507 Options "%1\$s" and "%2\$s" are not compatible.

Explanation: The specified options cannot be used together.

In the message text:

"%1\$s" and "%2\$s" are both option names.

**User response:** Change option values.

CCN7508 Suboption "%1\$s" for option "%2\$s" is no longer supported. The suboption is ignored.

**Explanation:** The command line contained a suboption that is no longer supported by this release.

In the message text:

"%1\$s" is the suboption. "%2\$s" is the option.

**User response:** Remove the suboption.

CCN7509 The suboption specified for the "%1\$s" option is not allowed when the "%2\$s" option is specified.

Explanation: The suboption specified in the first option conflicts with the second option. The first option is ignored.

In the message text:

"%1\$s" and "%2\$s" are option names.

**User response:** Correct the conflicting option or suboption.

CCN7510 Insufficient memory.

Explanation: The available memory has been

exhausted.

**User response:** Provide more memory.

CCN7511 Either the default or user-defined

maximum number of error messages has

been exceeded.

**Explanation:** There have been too many errors to

continue.

**User response:** Fix the previous errors.

CCN7512 Compiler cannot create temporary files. The file system may be full or not

writable.

Explanation: The intermediate code files could not be created. Please verify that the target file system exists, is writable, and is not full.

**User response:** Ensure that the designated location for temporary objects exists, is writable, and is not full.

CCN7513 An error was detected while writing to an temporary file. The file system may

Explanation: An error occurred writing to an intermediate code file. Please verify that the target file system exists, is writable, and is not full.

**User response:** Ensure that the designated location for temporary objects exists, is writable, and is not full.

CCN7517 The template registry file "%1\$s" could not be opened.

**Explanation:** A template registry file is created when the templateregistry compiler option is enabled.

In the message text:

"%1\$s" is the template registry file name designated by the templateregistry compiler option.

**User response:** Ensure that file system permissions allow files to be written, and that sufficient file system resources exist to permit the creation of this file.

CCN7518 Error reading template registry file "%1\$s".

**Explanation:** The template registry file is corrupt.

In the message text:

"%1\$s" is the template registry file name designated by the templateregistry compiler option

User response: Delete the template registry file and recompile all of the source files using this registry.

CCN7519 Error writing to template registry file "%1\$s".

**Explanation:** A template registry file is created when the templateregistry compiler option is enabled.

In the message text:

"%1\$s" is the template registry file name designated by the templateregistry compiler option.

**User response:** Ensure that file system permissions allow files to be written, and that sufficient file system resources exist to permit the creation of this file. If you receive this error while using an existing templateregistry file from a previous compilation, delete the templateregistry file, then recompile your source.

CCN7520 ""'%1\$s'""

**Explanation:** This is a generic message.

In the message text:

"%1\$s" is the message.

**User response:** The primary message describes a unique situation. All information should be found there.

#### CCN7521

The template definition "%1\$s" is no longer provided in module "%2\$s". Dependent modules should be recompiled to generate the necessary definition.

**Explanation:** A template definition is no longer available in the current module.

In the message text:

"%1\$s" is the template definition and "%2\$s" is the module.

**User response:** Recompile dependent modules to regenerate the template definition.

CCN7522

The compiler is operating in 32-bit mode. The option "%1\$s" is ignored.

**Explanation:** This option is valid only in 64-bit mode.

In the message text:

"%1\$s" is the option value.

User response: Remove the unrecognized value.

CCN7524

"%1\$s" is not compatible with "%2\$s". "%3\$s" is being set.

**Explanation:** The option is not compatible with another option so it is ignored.

In the message text:

"%1\$s", "%2\$s" and "%3\$s" are all option names.

**User response:** Remove one of the options.

CCN7525 Sub-option

Sub-option is not allowed in the "%1\$s" option.

**Explanation:** Sub-option is not allowed in the specified option.

In the message text:

"%1\$s" is the option name.

**User response:** Remove the sub-option.

CCN7526

Option "%1\$s" does not have a negative form and is ignored.

**Explanation:** This option cannot be used in negative form.

In the message text:

"%1\$s" is the option name.

**User response:** Change the negative form to positive by removing "no" string from the specified option or remove the option altogether.

CCN7527

Invalid delimiter following the string "%1\$s".

**Explanation:** The delimiter used to separate one string from another is not valid.

In the message text:

"%1\$s" is the string preceding invalid delimiter.

**User response:** The valid string delimiter is character ':'. Please use the valid delimiter.

CCN7528

Invalid string "%1\$s" specified and is ignored.

**Explanation:** Refer to the option specification to review which characters are allowed to form a valid string for this option.

In the message text:

"%1\$s" is the invalid string.

User response: Remove or correct the invalid string.

CCN7529

Unable to access options file "%1\$s".

**Explanation:** The compiler could not access the specified options file. It was either unable to open it or unable to read it.

In the message text:

"%1\$s" is the options file name specified on OPTFILE option.

**User response:** Ensure the options file name and other specifications are correct. Ensure that the access authority is sufficient. Ensure that the file being accessed has not been corrupted.

Options file "%1\$s" is already specified. All subsequent occurrences are ignored.

**Explanation:** An options file can only be specified

In the message text:

"%1\$s" is the options file name.

User response: Ensure that the options file is specified only once.

CCN7531

Options file "%1\$s" is too big. The current size is %2\$s bytes.

**Explanation:** The options file exceeded the size limit.

In the message text:

"%1\$s" is the options file name. %2\$s is the size of options file in bytes.

**User response:** Reduce the size of the options file and rerun.

CCN7532 No matching %1\$s quote in "%2\$s".

**Explanation:** The specified string has missing quote which makes the string invalid.

In the message text:

%1\$s is a quote character. "%2\$s" is the string with missing quote.

**User response:** Remove the string or add the missing quote to make the string valid.

CCN7533 No matching parenthesis in "%1\$s".

**Explanation:** The specified string has missing matching parenthesis which makes the string invalid.

In the message text:

"%1\$s" is the string with missing parenthesis.

User response: Remove the string or add the missing parenthesis to make the string valid.

CCN7534 The "pragma %1\$s" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the "pragma %1\$s" stack is empty.

In the message text:

"pragma %1\$s" is a keyword.

**User response:** Remove the pragma or ensure that the "pragma %1\$s" stack is not empty.

CCN7535

The attribute "%1\$s" redeclared with different value.

**Explanation:** The attribute "%1\$s" redeclared with different value.

In the message text:

"%1\$s" is an attribute name.

**User response:** Remove the attribute specifier.

CCN7536

The declaration "%1\$s" has greater visibility than the "%2\$s".

**Explanation:** The declaration "%1\$s" has greater visibility than the "%2\$s".

In the message text:

"%1\$s" and "%2\$s" are declaration names.

**User response:** Remove the attribute specifier.

CCN7537

There might be performance loss if "%1\$s" has "%2\$s" visibility and specified by "%3\$s".

**Explanation:** If any of the functions that are marked as imported resolve to statically bound objects, there will be performance loss.

In the message text:

"%1\$s" is the symbol name, "%2\$s" is one of the protected/hidden/internal visibility attribute, %3\$s is option name

**User response:** The generated code may be larger and run more slowly than the default code sequence generated for functions.

CCN7538

The name mangling for "%1\$s" is not implemented.

**Explanation:** The expression is used in a context where it needs to be mangled; however, there is no mangled form implemented for one of the language constructs used therein.

In the message text:

"%1\$s" is the expression that needs to be mangled.

**User response:** Change the source code so that "%1\$s" can be mangled.

CCN7539

"%1\$s" is reserved as a keyword. To disable it, use "%2\$s".

**Explanation:** A C++0x reserved keyword is present in C++98/03 code.

In the message text:

%1\$s is the C++0x keyword, "%2\$s" is the option to disable the keyword.

**User response:** Disable the keyword or do not use it.

CCN7541 The value given for priority option is not in the range "%1\$s" - "%2\$s". It has

been reset to %3\$s.

**Explanation:** priority values must be in the range "%1\$s" - "%2\$s".

**User response:** Change the priority option value so that it is in the range "%1\$s" - "%2\$s".

CCN7542 FUNCEVENT(ENTRYCALL) option cannot take function name with

template arguments.

FUNCEVENT(NOENTRYCALL) is set.

**Explanation:** FUNCEVENT(ENTRYCALL) option cannot distinguish between different function template instantiations.

**User response:** To generate entry calls for template function, specify FUNCEVENT(ENTRYCALL) to generate entry calls for all functions.

CCN7599 The compiler could not open the output file "%1\$s".

**Explanation:** The file "%1\$s" could not be opened.

In the message text:

%1\$s is a file name.

**User response:** Ensure the output file name is correct. Also, ensure that the location of the output file has sufficient storage available. If using a network file system, ensure that the network is working properly and you have permission to write to the file system.

CCN7601 Goto statements should not be used.

**Explanation:** Goto statements often lead to difficult to maintain code.

**User response:** Remove the goto statements.

CCN7602 Ellipsis notation should not be used.

**Explanation:** Using ellipsis prevents type checking of

arguments.

**User response:** Use an explicit argument list.

CCN7607 "%1\$s" should probably define a constructor.

**Explanation:** "%1\$s" does not have a constructor defined.

In the message text:

"%1\$s" is a class name.

**User response:** Define a constructor for "%1\$s".

CCN7608 "%1\$s" should probably define a destructor.

**Explanation:** "%1\$s" does not have a destructor

defined.

In the message text:

"%1\$s" is a class name.

**User response:** Define a destructor for "%1\$s".

CCN7609 "%1\$s" should probably define a copy constructor.

**Explanation:** "%1\$s" does not have a user defined copy constructor.

In the message text:

"%1\$s" is a class name.

**User response:** Define a copy constructor for "%1\$s".

CCN7611 Argument "%1\$s" is not used in function "%2\$s".

**Explanation:** The argument "%1\$s" is specified but not

needed.

In the message text:

"%1\$s" is an argument and "%2\$s" is the name of the function

**User response:** Consider removing the argument from the paramater list of the function.

CCN7612 "%1\$s" is set but not used in function "%2\$s".

**Explanation:** A variable has been explicitly initialized or assigned but is not referenced.

In the message text:

"%1\$s" is the variable that is set but not used and "%2\$s" is the function where the variable resides.

**User response:** Remove the variable if there are no side-effects.

CCN7613 The destructor in the base class "%1\$s" of "%2\$s" should be made virtual.

**Explanation:** A virtual destructor in the base class ensures that the proper destructor is called.

In the message text:

"%1\$s" is the base class to change. "%2\$s" is the derived class.

**User response:** Declare the destructor with the virtual keyword.

CCN7614 A user-defined copy

constructor/assignment operator should be created in "%1\$s" to handle a pointer data member.

**Explanation:** The compiler generated copy constructor and assignment operator does a bitwise member copy.

In the message text:

"%1\$s" is the class that has a pointer to data member.

**User response:** Create a copy constructor and an assignment operator.

CCN7616 "%1\$s" does not assign values to all data

members in the class.

**Explanation:** Checks that all data members in a class are assigned to when user defined assignment operators are present.

In the message text:

"%1\$s" is the offending class.

User response: Assign value to data member.

CCN7617 "%1\$s" was not initialized.

**Explanation:** The data member was not initialized.

In the message text:

"%1\$s" is a data member.

User response: Initialize the member.

CCN7618 "%1\$s" should be initialized using the member initialization list.

**Explanation:** Initializing a data member is faster than assignment in the constructor.

In the message text:

"%1\$s" is the data member to initialize.

**User response:** Initialize the data member in the constructor list.

CCN7619

"%1\$s" should be initialized in the same order as it is declared in "%2\$s". It should be initialized after "%3\$s".

**Explanation:** Data members are initialized in the order they are declared. The initialization list should reflect this order.

In the message text:

"%2\$s" is the class name. "%1\$s" and "%3\$s" are its data members. "%3\$s" is a data member that is after "%1\$s" in the class definition.

**User response:** Re-order the initialization list to be the same as the declaration order.

CCN7620

"%1\$s" is a non-const namespace variable and may cause problems in multithreaded code.

**Explanation:** Variables in namespace scope that are not protected by a mutex may behave unexpectedly in multithreaded code.

In the message text:

"%1\$s" is a variable in namescope scope.

**User response:** Don't use variables in namespace scope for multithreaded code.

CCN7621

"%1\$s" is a global variable and may cause problems in multithreaded code.

**Explanation:** Global variables that are not protected by a mutex may behave unexpectedly in multithreaded code.

In the message text:

"%1\$s" is a global variable.

**User response:** Don't use global variables for multithreaded code.

CCN7622

"%1\$s" is a static local variable and may cause problems in multithreaded code.

**Explanation:** Static local variables that are not protected by a mutex may behave unexpectedly in multithreaded code.

In the message text:

"%1\$s" is a static local variable.

**User response:** Don't use static local variables for multithreaded code.

CCN7623

"%1\$s" is a static member variable and may cause problems in multithreaded code.

**Explanation:** Static member variables that are not protected by a mutex may behave unexpectedly in multithreaded code.

In the message text:

"%1\$s" is a static member variable.

**User response:** Don't use static member variables for multithreaded code.

CCN7624

64-bit portability: possible truncation of pointer through conversion of pointer type into int type.

**Explanation:** Conversion from an 8 byte pointer type into a 4 byte int type could be incorrect.

**User response:** Change the int type to long.

CCN7625

64-bit portability: possible truncation of array through conversion of array type into int type.

**Explanation:** Conversion from an 8 byte array type into a 4 byte int type could be incorrect.

**User response:** Change the int type to long.

CCN7626

64-bit portability: possible truncation of function through conversion of function type into int type.

**Explanation:** Conversion from an 8 byte function type into a 4 byte int type could be incorrect.

**User response:** Change the int type to long.

CCN7627

64-bit portability: possible incorrect pointer through conversion of integral type into pointer.

**Explanation:** Casting an integral type smaller than 8 bytes to a 64-bit pointer will set the upper bytes to all zeros, or all ones; likely an invalid pointer.

User response: Explicitly cast to larger integral type before casting to pointer.

CCN7628

64-bit portability: possible loss of digits through conversion of long type into int type.

**Explanation:** Conversion from an 8 byte long type into a 4 byte int type could be incorrect.

**User response:** Change the int type to long.

CCN7629

64-bit portability: possible change of result through conversion of unsigned int type into long int type. In 32-bit mode, values greater than INT\_MAX would be truncated, but not in 64-bit mode.

**Explanation:** In 32-bit mode, values greater than INT\_MAX would be truncated and could be incorrect.

**User response:** Make sure that values <= INT\_MAX.

CCN7630

64-bit portability: possible difference in results. In 32-bit mode, values < INT\_MIN or > INT\_MAX would be truncated, but not in 64-bit mode.

**Explanation:** In 32-bit mode, values < INT\_MIN or > INT\_MAX could be incorrect.

**User response:** Make sure that values <= INT\_MAX and values >= INT\_MIN.

CCN7631

64-bit portability: possible difference in results. Values < 0 would give different results in 64-bit mode, values > UINT MAX would be truncated in 32-bit mode but not in 64-bit mode.

**Explanation:** Possible difference in results if value < 0.

**User response:** Make sure that values >= 0.

CCN7632

64-bit portability: possible difference in results. Values > INT\_MAX would be truncated in 32-bit mode but not in 64-bit mode.

**Explanation:** Values > INT\_MAX could be incorrect in 32-bit mode.

**User response:** Make sure that values <= INT\_MAX.

CCN7633

64-bit portability: possible difference in results. Values > UINT\_MAX would be truncated in 32-bit mode but not in 64-bit mode.

**Explanation:** Values > UINT\_MAX could be incorrect in 32-bit mode.

**User response:** Make sure that values <= UINT\_MAX.

CCN7634

64-bit portability: possible difference in results if value is negative.

**Explanation:** Values < 0 would give different results in 64-bit mode.

**User response:** Make sure that values  $\geq 0$ .

CCN7635 "%1\$s" is not used in function "%2\$s".

Explanation: The variable "%1\$s" is not used in function "%2\$s".

In the message text:

"%1\$s" is a variable name. "%2\$s" is a function.

**User response:** Either use the variable or remove it appropriately.

CCN7636

Global variable "%1\$s" is not used.

Explanation: A global variable was declared but not used.

In the message text:

"%1\$s" is a global variable.

**User response:** Remove the variable.

#### CCN7637 • CCN7649

CCN7637 Null statement.

**Explanation:** This C++ statement has no effect.

**User response:** Remove the statement.

CCN7638 The condition evaluates to a constant

Explanation: An expression in a condition will not

change during execution.

**User response:** Remove the condition.

CCN7639 Precision will be lost in assignment to bit field "%1\$s".

**Explanation:** The size of the value assigned to the bit

field is too large.

In the message text:

"%1\$s" is the name of the bit field.

**User response:** Increase the size of the bit field or

reduce the value assigned.

CCN7640 The statement is unreachable.

**Explanation:** Statements that are unreachable are

never executed.

**User response:** Remove unreachable statements.

CCN7641 Auto compiler temporary of type "%1\$s" has been generated.

**Explanation:** A temporary variable was generated by the compiler to hold an intermediate result.

In the message text:

"%1\$s" is the type of the temporary variable.

**User response:** Modify expression to remove the need for the compiler generated temporary.

CCN7642 The constant expression is larger than the size of the bit field type.

**Explanation:** This may result in unexpected behavior.

**User response:** Choose a different bit field type or

reduce the size of the bit field.

CCN7643 The function %1\$s declared with attribute "noreturn" or pragma leaves may return.

**Explanation:** The noreturn function should have reachable call to noreturn function.

In the message text:

"%1\$s" is the function name.

**User response:** Make sure the noreturn function has reachable call to noreturn function.

CCN7644 Pointer type "%1\$s" and type "%2\$s" are not compatible in the current aliasing

mode.

**Explanation:** This may break ANSI aliasing rules.

In the message text:

"%1\$s" is a type. "%2\$s" is a type.

**User response:** Make sure that there is no need to do this cast in the code. Or use different aliasing mode to ensure optimization correctness.

CCN7645 Array "%1\$s", was not initialized in its

declaration.

**Explanation:** The array is not initialized when it is declared.

In the message text:

"%1\$s" is an array.

**User response:** Make sure that the array is initialized when it is declared.

CCN7646 Label "%1\$s" defined but not used.

**Explanation:** The label is defined but it is never

referenced.

In the message text:

"%1\$s" is a label.

**User response:** Make sure that the label is referenced. Or the label could be incorrect.

CCN7647 The "vector" keyword must be the first type specifier used.

**Explanation:** The "vector" keyword must be the first type specifier used.

**User response:** Element specifier must come after vector specifier.

CCN7648 Deprecated type specifier "long" in AltiVec type, use "int" instead.

**Explanation:** Deprecated type specifier "long" in AltiVec type, use "int" instead.

**User response:** Long to be deprecated in future release of Altivec PIM.

CCN7649 The condition always evaluates to true.

**Explanation:** An expression in a condition will not change during execution.

**User response:** Remove the condition.

CCN7650 The condition always evaluates to false.

**Explanation:** An expression in a condition will not change during execution.

**User response:** Remove the condition.

CCN7651

64-bit portability: possible compilation error due to explicit conversion of pointer type to integral type.

**Explanation:** Conversion from an 8-byte pointer type to an integral type smaller than 8 bytes is not allowed

**User response:** Change the target type of the conversion to a larger integral type, such as long or long long.

CCN7652

The right-hand side of a bitwise shift expression should be positive and less than the width in bits of the promoted left operand.

**Explanation:** This expression may not be portable.

**User response:** Change the shift expression.

**CCN8100** 

"%1\$s" specified in "%2\$s" is not a valid numeric value. The option is ignored.

**Explanation:** The specified option was ignored because the argument was not a valid numeric value.

In the message text:

"%1\$s" is the invalid numeric value. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

CCN8101

The numeric value "%1\$s" specified in "%2\$s" is out of bounds. The option is ignored.

**Explanation:** The specified option was ignored because the argument was not a numeric value within the range specified by this option.

In the message text:

"%1\$s" is the out-of-bounds value specified. "%2\$s" is the option being ignored.

**User response:** Verify the allowable values for this option.

CCN8102

The alignment value "%1\$s" specified in "%2\$s" is not a power of two. The option is ignored.

**Explanation:** The specified option was ignored because the alignment specified was not a power of two

In the message text:

"%1\$s" is the invalid alignment value. "%2\$s" is the option being ignored.

**User response:** Verify the allowable values for this option.

CCN8103

"%1\$s" specified in "%2\$s" is not recognized. The option is ignored.

**Explanation:** The specified option was ignored because the specified argument was not recognized.

In the message text:

"%1\$s" is the unrecognized argument. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

**CCN8104** 

The message number %1\$s specified in "%2\$s" is not a valid message ID. The option is ignored.

**Explanation:** The specified option was ignored because the message ID is not valid.

In the message text:

"%1\$s" is the invalid message ID. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option and the message ID.

CCN8105

A non-empty string is required but "%1\$s" appears in "%2\$s". The option is ignored.

**Explanation:** The specified option was ignored because it was expecting a string with characters in it.

In the message text:

"%1\$s" is the invalid argument. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

**CCN8106** 

An option argument is required but is not found in "%2\$s". The option is ignored.%1\$s

**Explanation:** The specified option was ignored because it expected an argument which was not provided.

In the message text:

"%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

#### CCN8107 • CCN8124

CCN8107

"%1\$s" specified in "%2\$s" contains embedded spaces. The option is ignored.

**Explanation:** The specified option was ignored due to embedded spaces in the argument.

In the message text:

"%1\$s" is the argument containing embedded spaces. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option and the value passed as an argument.

#### **CCN8108**

The option argument "%1\$s" specified in "%2\$s" is not valid. The option is ignored.

**Explanation:** The specified option was ignored because the argument specified was not valid.

In the message text:

"%1\$s" is the invalid argument. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

#### **CCN8109**

The section attributes "%1\$s" specified in "%2\$s" are not valid. The option is ignored.

**Explanation:** The specified option was ignored because the section attributes argument was not valid.

In the message text:

"%1\$s" is the invalid section attributes argument. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

#### CCN8110

An unnecessary argument "%1\$s" is found in "%2\$s". The option is ignored.

**Explanation:** The specified option was ignored because an unnecessary argument was specified.

In the message text:

"%1\$s" is the unnecessary argument. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

#### CCN8111

"%1\$s" specified in "%2\$s" requires an additional option argument. The option is ignored.

**Explanation:** The specified option was ignored because the argument requires more information.

In the message text:

"%1\$s" is the argument that requires more information. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

#### CCN8120

The AlignAddr value "%1\$s" is less than the AlignFile value "%2\$s".

**Explanation:** The AlignAddr value must be greater than the AlignFile value.

In the message text:

"%1\$s" is the AlignAddr value. "%2\$s" is the AlignFile value

**User response:** Change the values.

#### CCN8121

"%1\$s" in "%2\$s" is not a valid object model name. The option is ignored.

**Explanation:** The option specified was ignored because the specified object model name was not valid.

In the message text:

"%1\$s" is the invalid object model name specified. "%2\$s" is the option being ignored.

**User response:** Verify the option syntax.

#### CCN8122

"%1\$s" is in conflict with "%2\$s". The option is ignored.

**Explanation:** The options specified are not valid if they are specified together.

In the message text:

"%1\$s" and "%2\$s" are the conflicting options.

**User response:** Verify the options and remove or modify one of them.

#### CCN8123

The string "%1\$s" in "%2\$s" is not a valid identifier. The option is ignored.

**Explanation:** The specified option was ignored because it expected a valid identifier.

In the message text:

"%1\$s" is the invalid identifier specified. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option and the string specified.

#### CCN8124

The string "%1\$s" in "%2\$s" is not a valid keyword. The option is ignored.

**Explanation:** The specified option was ignored because it expected a string containing a valid keyword.

In the message text:

"%1\$s" is the invalid string specified. "%2\$s" is the option being ignored.

**User response:** Verify the syntax of the option and the string specified.

CCN8125

The option argument "%1\$s" specified in "%2\$s" is longer than %3\$s characters. The option is ignored.

**Explanation:** The specified option was ignored because the argument was too long.

In the message text:

"%1\$s" is the invalid argument. "%2\$s" is the option being ignored. "%3\$s" is the maximum length.

**User response:** Verify the syntax and constraints of the option.

CCN8126

The option "%1\$s" requires architecture level "%2\$s" or above. The option "%1\$s" is ignored.

**Explanation:** The specified option is ignored because it needs the required architecture level.

In the message text:

"%1\$s" is the ignored option and "%2\$s" is the required architecture level.

**User response:** Remove the option or specify the required architecture level.

CCN8127

Option "%2\$s" must be specified for option "%1\$s".

**Explanation:** The specified option does not take effect because a required option is not specified.

In the message text:

"%1\$s" is the specified option, "%2\$s" is the option required by "%1\$s".

**User response:** Remove the option or specify its required option.

CCN8130

The value "%1\$s" in option "%2\$s" is reserved for system use. The value is not accepted.

**Explanation:** The specified value is not accepted because it is reserved by the system.

In the message text:

"%1\$s" is the value. "%2\$s" is the option.

User response: Change the specified value.

CCN8131

The global option directive "%1\$s" must not be placed inside braces. The option is ignored.

Explanation: The specified option directive is a global

directive that applies to the target rather than to individual files.

In the message text:

"%1\$s" is the option directive being ignored.

**User response:** Move the option to the global scope.

CCN8132

The global option directive "%1\$s" is not allowed because it modifies a previous directive. The option is ignored.

**Explanation:** The specified option directive is ignored because it conflicts with a previous directive.

In the message text:

"%1\$s" is the global option directive being ignored.

**User response:** Verify the meaning of the option directives specified to see that they do not conflict.

CCN8133

No include path is specified for the option "%1\$s". The option is ignored.

**Explanation:** The specified option was ignored because it expected an include path as a an argument.

In the message text:

"%1\$s" is the option being ignored.

**User response:** Verify the syntax of the option.

CCN8134

Error in setting option "%1\$s" for extension source "%2\$s". Configuration value "%3\$s" has the wrong format.

**Explanation:** This is a warning message about compiler extension source options.

In the message text:

"%1\$s" is the option. "%2\$s" is the extension source.

"%3\$s" is the configuration value.

**User response:** If you are using that extension, use the correct option for that extension.

CCN8135

Default value of option "%1\$s" in the .ice file has the wrong format "%2\$s".

**Explanation:** The .ice file contains an invalid default value for the specified option.

In the message text:

"%1\$s" is the option which has an invalid default value in the .ice file.

**User response:** Verify the syntax used to specify defaults in the .ice file.

CCN8136 Options "%1\$s" and "%2\$s" are in conflict.

**Explanation:** The specified options cannot be specified together because they conflict.

In the message text:

"%1\$s" and "\$2\$s" are the conflicting options.

**User response:** Verify the option settings and remove or modify one of the conflicting options.

**CCN8137** 

OBJECT\_MODE setting "%1\$s" is not recognized and is not a valid setting for the compiler.

**Explanation:** The specified OBJECT\_MODE setting is not valid.

In the message text:

"%1\$s" is the invalid setting.

**User response:** Verify the valid settings for OBJECT\_MODE.

CCN8138

OBJECT\_MODE = 32\_64 is not a valid setting for the compiler.

**Explanation:** The 32\_64 OBJECT\_MODE setting is not supported.

**User response:** Verify the valid settings for OBJECT\_MODE.

**CCN8139** 

The global option "%1\$s" should be applied to all sources and targets.

**Explanation:** A global option is an option that applies to all sources and targets rather than just one specified source file.

In the message text:

"%1\$s" is the global option.

**User response:** Move the global option so that it applies to all targets and sources.

**CCN8140** 

"%1\$s" is not compatible with 64-bit object mode. The default value "%2\$s" is being set.

**Explanation:** The specified option is not valid for 64-bit object mode, so the specified default is being set.

In the message text:

"%1\$s" is the option that is not valid for 64-bit object mode. "%2\$s" is the default value being set.

**User response:** Verify the options that are valid for 64-bit object mode or switch to 32-bit object mode.

CCN8141

"%1\$s" is not compatible with 32-bit object mode. The default value "%2\$s" is being set.

**Explanation:** The specified option is not valid for 32-bit object mode so the specified default is being set.

In the message text:

"%1\$s" is the option which is not valid for 32-bit object mode. "%2\$s" is the default value being set.

**User response:** Verify the options that are valid for 32-bit object mode or switch to 64-bit object mode.

CCN8142

"%1\$s" is not compatible with "%2\$s". "%3\$s" is being set.

**Explanation:** The specified option values cannot be specified together because they are not compatible. A valid option is being set instead.

In the message text:

"%1\$s" and "%2\$s" are the incompatible option values. "%3\$s" is the setting chosen by the compiler.

**User response:** Verify the option values, and either remove or modify them so that they are compatible.

CCN8143

"%1\$s" option is specified, but no floating point traps are being detected.

**Explanation:** Floating point traps are enabled but no traps have been specified.

In the message text:

"%1\$s" is the option.

User response: Remove the option.

CCN8144

The option "%1\$s" requires "%2\$s". The option is ignored.

**Explanation:** The specified option is ignored because it needs the required option.

In the message text:

"%1\$s" is the ignored option, "%2\$s" is the required option.

**User response:** Remove the option or specify the required option.

CCN8145

"main" cannot be exported. The directive is ignored.

**Explanation:** "main" is ignored because it cannot be exported.

User response: Remove "main".

CCN8146 Expected text "%1\$s" was not

encountered on option "%2\$s". The

option is ignored.

**Explanation:** option argument should have "%1\$s".

In the message text:

"%1\$s" is the unexpected text, "%2\$s" is the ignored option.

**User response:** Verify the syntax of the option.

CCN8147 The compiler is operating in 32-bit mode. The option "%1\$s" is ignored.

Explanation: The compiler should operate in 64-bit

mode.

In the message text:

"%1\$s" is the ignored option.

**User response:** To use the specified option, turn on 64

bit mode.

CCN8148 The current codeset "%1\$s" is not utf-8.

The option "%2\$s" is ignored.

**Explanation:** The current locale should be utf-8.

In the message text:

"%1\$s" is the current codeset. "%2\$s" is the ignored option.

**User response:** Change the current locale in utf-8 to use this option.

CCN8149 The option "%1\$s" requires AIX Version
5.2 or higher The option "%1\$s" is

5.2 or higher. The option "%1\$s" is ignored.

**Explanation:** The option is supported on AIX 5.x and above.

In the message text:

"%1\$s" is the ignored option.

**User response:** Use this option only on AIX 5.2 or above.

CCN8150 The option "%1\$s" requires one of the following "%2\$s". The option is ignored.

**Explanation:** The specified option is ignored because it needs one of the other required options.

In the message text:

"%1\$s" is the ignored option, "%2\$s" is the list of required options.

**User response:** Remove the option or specify one of the required options.

CCN8151 The option "%1\$s" sets "%2\$s".

**Explanation:** The second option is set when the first option is specified.

In the message text:

"%1\$s" is the explicitly set option, "%2\$s" is the implicitly set option.

**User response:** If the implicitly set option is not desirable and the explicitly set option isn't required, remove the explicitly set option.

CCN8152

Weak symbol is not supported on AIX4.3 and lower. Weak symbol is supported on AIX5.1 with a PTF or on AIX5.2 and higher.

Explanation: Specified option is not supported on

target release.

In the message text:

N/A

**User response:** Remove conflicting option.

CCN8153

The correct way of representing the imaginary part of a complex number is by using "%1\$s"

**Explanation:** The standard does not support using suffix i or j to represent the imaginary part of a complex number. Use "%1\$s".

In the message text:

"%1\$s" is the right format for representing the imaginary part of a complex number.

**User response:** Remove suffix i or j.

CCN8154

C++ complex types might be supported differently by this compiler than by other compilers. If you are compiling this program with more than one compiler, using complex types might result in program incompatibility.

**Explanation:** The complex data type is a nonstandard C++ extension.

**User response:** Do not use the predefined complex data type if portability is a key requirement. Use the library complex type instead.

CCN8155

The use of long in a vector type is not allowed in 64-bit mode.

**Explanation:** Long is not allowed in vector type in

64-bit mode.

**User response:** Use int instead of long for vector type.

CCN8157

Option "%1\$s" may be in conflict with OpenMP.

**Explanation:** Option "%1\$s" may cause behavior that is different than the OpenMP API specification.

In the message text:

"%1\$s" is the explicitly-set option which causes the conflicting behavior.

**User response:** Remove the option.

CCN8158

The option "%1\$s" only has an effect when preprocessed output is generated. The option is ignored.

Explanation: The specified option is ignored because it only has effect when preprocessed output is generated.

In the message text:

"%1\$s" is the ignored option.

User response: Specify an option configuration that generates preprocessed output.

**CCN8159** 

"%1\$s" is deprecated when used together with "%2\$s". The option is accepted but may not be in a future release.

**Explanation:** Combined use of the specified options is not recommended.

In the message text:

"%1\$s" and "\$2\$s" are the option values, which are deprecated when used together.

**User response:** Verify the option values, and either remove or modify them to avoid this particular option combination.

CCN8160

The 'class' keyword is no longer used in this context for friend declarations under C++0x.

**Explanation:** C++0x introduced a change in syntax to class friend declarations, this new syntax is incompatible with the old C++98 friend syntax.

User response: Remove the 'class' keyword from the friend class declaration.

**CCN8161** 

"%1\$s" is deprecated. The option is accepted but may not be in a future release.

Explanation: Use of the specified option is not recommended.

In the message text:

"%1\$s" is the deprecated option.

**User response:** Remove the option.

CCN8162

The "%1\$s" option has been deprecated and might be removed in a future release. Consider using the "%2\$s" environment variable instead.

Explanation: The option "%1\$s" is not supported and should not be used. See the Compiler Reference for the "%2\$s" environment variable.

In the message text:

"%1\$s" is the option value and "%2\$s" is the environment variable value.

User response: Change option "%1\$s" to utilize the "%2\$s" environment variable.

CCN8163

The "%1\$s" option can prevent the "%2\$s" option from detecting the use of some variables before they are set.

**Explanation:** The "%1\$s" option can hide uninitialized variables from the "%2\$s" option.

In the message text:

"%1\$s" and "%2\$s" are the option vlaues, "%1\$s" can prevent "%2\$s" from functioning.

User response: Verify the "%1\$s" option does not prevent the "%2\$s" option.

CCN8164

Vector long type is not allowed. Use vector int instead.

**Explanation:** Long is not allowed in vector type.

**User response:** Use int or long long instead of long for vector type.

**CCN8165** 

The %1\$s schedule type has been deprecated and might be removed in a future release. Consider using the %2\$s schedule type. The schedule type is reset to %2\$s.

**Explanation:** The schedule type %1\$s is deprecated and would be reset to option %2\$s. See the Compiler Reference for %2\$s schedule type.

In the message text:

%1\$s and %2\$s are schedule type names.

User response: Change schedule type %1\$s to utilize %2\$s schedule type.

CCN8200

Class "%1\$s" has base classes with different object models.

**Explanation:** The object model deals primarily with the layout of class hierarchies. All classes in the same inheritance hierarchy must have the same object model. In the message text:

"%1\$s" is the name of the derived class.

**User response:** Modify either the base class or the derived class so that both have the same object model.

#### CCN8201

Class "%1\$s" is specified with a different object model than its base classes. The object model specified in its base classes will be used.

**Explanation:** The object model deals primarily with the layout of class hierarchies. All classes in the same inheritance hierarchy must have the same object model.

In the message text:

"%1\$s" is the name of the derived class.

**User response:** Modify either the base class or the derived class so that both have the same object model.

#### CCN8202

Class "%1\$s" has different object model between its formal template class and its base classes.

**Explanation:** The object model deals primarily with the layout of class hierarchies. All classes in the same inheritance hierarchy must have the same object model. Any formal templates (primary templates or partial specializations) must also have the same object model.

In the message text:

"%1\$s" is the name of the instance class.

**User response:** Modify either the base class or the formal template class so that both have the same object model.

#### CCN8204

The direct base "%1\$s" inaccessible in "%2\$s" due to ambiguity.

**Explanation:** A base class is inaccessible because it is ambiguous.

In the message text:

"%1\$s" is the name of the base class, "%2\$s" is the name of the derived class

**User response:** Remove the ambiguous base class from the class hierarchy.

#### CCN8205

The covariant return type is not supported on the specific platform, the function "%1\$s" has two covariant return types, "%2\$s" and "%3\$s".

**Explanation:** Covariant return type is not implemented on this platform.

In the message text:

"%1\$s" is the function name, "%2\$s" and "%3\$s" are the two covariant return type names.

**User response:** Remove the covariant return type for the function.

#### CCN8400

"%1\$s" is undefined. The delete operator will not call a destructor.

**Explanation:** The class is declared but not defined so a constructor will not be called when the object is deleted at this point.

In the message text:

"%1\$s" is the class.

**User response:** Define the class.

#### CCN8401

The address of the destructor "%1\$s" cannot be taken.

**Explanation:** An attempt has been made to take the address of a destructor.

In the message text:

"%1\$s" is the destructor.

**User response:** Change the code to not take the address of the destructor.

#### CCN8402

The explicit reference to the destructor "%1\$s" can only be used in an explicit destructor call.

**Explanation:** Destructors do not have names and can only be referred to in declarations and in pseudo-destructor calls.

In the message text:

"%1\$s" is the destructor.

**User response:** Remove the reference to the destructor.

#### CCN8403

An expression with type pointer-to-member function must be bound to an object or a pointer to an object when it is used with the function call operator ().

**Explanation:** A pointer-to-member function must have an object to refer to when calling the function.

**User response:** Change the code so that the function is being called on an object or a pointer to an object.

#### CCN8404

All the arguments must be specified for "%1\$s" because its default arguments have not been checked yet.

**Explanation:** The function is recursive and is using the default arguments. Because they have not been processed yet, they must be specified.

In the message text:

"%1\$s" is the function.

#### CCN8405 • CCN8418

**User response:** Specify the parameters to the function call.

### CCN8405 An empty initializer list cannot be used to initialize an unbounded array.

**Explanation:** The array is unbounded and its size is not known so an empty initializer list cannot be used.

**User response:** Specify the size of the array or use a non-empty initializer list.

# CCN8406 Build with the "%1\$s" compiler option to extend the scope of the for-init-statement declaration.

**Explanation:** Informational message about the option for extending scope of the variable in the for statement.

In the message text:

"%1\$s" is the compiler option that can extend the scope of the variables declared in the for statement.

**User response:** See the primary message.

### CCN8407 The local macro "%1\$s" is not visible in the current source.

**Explanation:** Informational message about a local macro.

In the message text:

"%1\$s" is the macro.

User response: See the primary message.

### CCN8408 The condition declaration cannot have type "%1\$s".

**Explanation:** The type of the variable declared in the condition is not valid.

In the message text:

"%1\$s" is the type.

**User response:** Change the type of the declaration in the condition to bool.

### CCN8409 The condition declaration cannot be initialized with a brace list initializer.

**Explanation:** A declaration in a condition cannot be initialized with a brace list.

**User response:** Change the initializer so that it is not in brace list format.

### CCN8410 The left side of the "%1\$s" operator must be an lyalue.

**Explanation:** The operand on the left side is not an object that can be assigned a value.

In the message text:

"%1\$s" is the operator.

**User response:** Change the left operand to an object that can be assigned a value.

### CCN8411 A dynamic cast is present, but the correct RTTI option is not specified.

**Explanation:** The compilation unit must be compiled with RTTI enabled.

**User response:** Use the correct RTTI compiler option, or remove the dynamic cast.

### CCN8412 A typeid is present, but the correct RTTI option is not specified.

**Explanation:** The compilation unit must be compiled with RTTI enabled.

**User response:** Use the correct RTTI compiler option, or remove the type ID.

### CCN8413 The "\_alignof\_" operator cannot be applied to a bit field.

**Explanation:** An attempt to use the \_\_alignof\_\_ operator on a bit field has been made.

**User response:** Remove the use of the \_\_alignof\_\_ operator.

# CCN8414 The identifier "\_\_VA\_ARGS\_\_" is allowed only in the replacement list of a function-like macro that has an ellipsis, "...", in the parameter list.

**Explanation:** An attempt was made to use \_\_VA\_ARGS\_\_ without an ellipsis in the macro's parameter list.

**User response:** Remove the use of \_\_VA\_ARGS\_\_ or add an ellipsis.

### CCN8415 This expression cannot be used as a typeof expression.

**Explanation:** The expression is inappropriate for use with the typeof extension.

User response: Change the expression.

### CCN8418 The non-"%1\$s" member function "%2\$s" is called for "%3\$s".

**Explanation:** Only the same cv-qualified member functions can be called with a more qualified or the same cv-qualified type of object.

In the message text:

"%1\$s" is the cv-qualifier. "%2\$s" is the function. "%3\$s" is the object.

**User response:** Change the member function to be of the same cv-qualification or change the object to be non-cv-qualified.

#### **CCN8419**

A pointer to non-"%1\$s" member function type "%2\$s" is called for "%3\$s".

**Explanation:** Only the same cv-qualified const member functions can be called with a more qualified or the same cv-qualified type of pointer-to-member.

In the message text:

"%1\$s" is the cv-qualifier. "%2\$s" is the function. "%3\$s" is the type.

**User response:** Change the member function to be of the same cv-qualification or change the pointer-to-member to be non-cv-qualified.

#### CCN8421

A flexible array member must be the last member of an outer struct to be initialized.

**Explanation:** Initialization of a flexible array member is not allowed if the flexible array member is not the last member of the outer structure in a struct nest.

**User response:** Remove the initialization of the offending flexible array member.

#### CCN8422

A variable length array may not be initialized.

**Explanation:** An initialization list may not be used to initialize a variable length array.

**User response:** Remove the variable length array initialization list.

#### CCN8423

References to variable length arrays are not supported in C++.

**Explanation:** Variable length array references are not defined within the C99 language specification and are not suported in C++.

**User response:** Do not use variable length array reference types.

#### CCN8424

Variable length arrays may not be a data member of a structure, union, or class.

**Explanation:** Variable length arrays can only be automatic variables.

**User response:** Remove the data member declaration or change its type.

#### CCN8425

A variable length array of unknown size is not allowed in this context.

**Explanation:** An array bound '[\*]' has been provided in an invalid context.

**User response:** Specify an expression for the variable length array bound.

#### CCN8426

The argument of the size of operator is (or contains) a zero extent array or flexible array member of size zero.

**Explanation:** This is an informational message describing the default size for a zero extent array and for a flexible array member.

**User response:** See the primary message.

#### CCN8427

A goto statement may not jump into the scope of a variable of variably modified type.

**Explanation:** The goto statement branches into the scope of a variable length array.

**User response:** Remove the goto statement or change the location of the label.

#### CCN8428

A variable length array of non-POD (plain old data) element type is not permitted.

**Explanation:** Support for variable length arrays in C++ is limited to C99 functionality.

**User response:** Use malloc or new to dynamically allocate an array.

#### CCN8429

The format of the designated initializer is incorrect.

**Explanation:** A designated initializer should contain a designator, followed by an expression to initialize it.

**User response:** Change the designated initializer syntax.

#### CCN8430

Casting to an array type is not permitted.

**Explanation:** A cast expression may not specify an array type.

**User response:** Remove the array type cast or correct the type.

#### CCN8431

A template may not be instantiated with a variably modified type.

**Explanation:** Template instantiation with a variably modified type is not permitted.

#### CCN8432 • CCN8445

**User response:** Remove the template instantiation or correct the type.

#### CCN8432

"goto %1\$s" bypasses the variable length array definition "%2\$s".

**Explanation:** The goto statement skips over the definition of a variable length array.

In the message text:

"%1\$s" is the label. "%2\$s" is the missed variable length array.

**User response:** Move the label before the variable length array definition.

#### CCN8433

The "%1\$s" statement bypasses the variable length array definition "%2\$s".

**Explanation:** A case in the switch statement contains variable length arrays that are not contained within a compound statement.

In the message text:

"%1\$s" is the case or default statement. "%2\$s" is the bypassed variable length array.

**User response:** Add a pair of braces {} to enclose the code containing the variable length array.

#### CCN8434

The type is not allowed for the "%1\$s" unary operation.

**Explanation:** Only integral type, floating point type or complex floating point type are allowed for the "%1\$s" unary operation.

In the message text:

"%1\$s" is the unary operation.

**User response:** Change the type to integral, floating point type or complex floating point type.

#### CCN8439

The constructor initializer is unexpected. This constructor delegates at line %1\$s, column %2\$s.

**Explanation:** A delegating constructor should have only one constructor initializer. The initialization can only be done within a non-delegating constructor. In other words, a delegating constructor cannot both delegate and initialize.

In the message text:

"%1\$s" is the line number for the constructor initializer that specifies the target constructor. "%2\$s" is the column number for the constructor initializer that specifies the target constructor.

**User response:** Remove the extra initializers from the constructor initializer list.

#### CCN8440 "%1\$s" delegates to itself.

**Explanation:** A delegating constructor should not delegate to itself directly or indirectly. Attempts to do so lead to infinite recursion.

In the message text:

"%1\$s" is a delegating constructor that delegates to itself directly or indirectly.

**User response:** Modify an affected constructor to be non-delegating or modify the chain of delegations to reach a non-delegating constructor.

#### CCN8441

"%1\$s" delegates to "%2\$s".

**Explanation:** Informational message indicating part of a delegation chain.

In the message text:

"%1\$s" is a delegating constructor. "%2\$s" is the constructor that is the direct target of "%1\$s".

**User response:** See the primary message.

#### CCN8442

This expression cannot be used as a decltype expression.

**Explanation:** The expression is inappropriate for use with decltype.

**User response:** Change the expression.

#### CCN8443

The function "%1\$s" given to decltype contains an ambiguous set of overloaded functions.

**Explanation:** Decltype must not be given an ambiguous set of overloaded functions as part of the argument.

In the message text:

"%1\$s" is a function.

**User response:** Resolve the ambiguity or do not use decltype on the overloaded function set.

#### CCN8444

Auto deduced type cannot be incomplete type.

**Explanation:** An incomplete type was specified in the initializer of auto deduced type and it is not allowed.

**User response:** Specify a complete type in the initializer of auto deduced type.

#### CCN8445

An rvalue has been bound to an lvalue reference to a non-const or volatile type.

**Explanation:** The C++ language does not permit an rvalue to be bound to a non-const or volatile lvalue reference; this binding is not portable.

**User response:** Change the reference to be a non-volatile const lyalue reference.

#### **CCN8446**

The generated temporary will not be treated as a local variable due to the presence of label definition "%1\$s".

**Explanation:** A branch to the label may bypass construction of the temporary. The temporary is destroyed in the standard compliant way.

In the message text:

"%1\$s" is the name of the problematic label definition.

**User response:** Remove the label definition or enclose the temporary construction in an appropriate lexical block.

#### **CCN8447**

The generated temporary will not be treated as a local variable due to the presence of computed goto on line "%1\$s", column "%2\$s".

**Explanation:** The computed goto may bypass the destruction of the temporary. The temporary is destroyed in the standard compliant way.

In the message text:

"%1\$s" is the line of the computed goto in the user source. "%2\$s" is the column of the computed goto in the user source.

**User response:** Remove the computed goto or enclose the temporary construction in an appropriate lexical block.

#### **CCN8460**

The parameter of a catch block cannot be an rvalue reference.

**Explanation:** The C++ language does not permit an rvalue reference type in an exception-declaration.

**User response:** Change the type of the parameter for the catch block.

#### CCN8461

The rvalue reference type, "%1\$s", is not allowed in an exception-specification.

**Explanation:** The C++ language does not permit an rvalue reference type in an exception-specification.

In the message text:

"%1\$s" is the rvalue reference type.

**User response:** Correct the exception-specification type list.

#### CCN8462

A prvalue expression of type "%1\$s" cannot be converted to type "%2\$s".

**Explanation:** Conversion from a prvalue expression of type "%1\$s" to type "%2\$s" cannot be done in this context.

In the message text:

"%1\$s" is the original type. "%2\$s" is the target type.

**User response:** Change the types or provide conversion functions.

#### CCN8463

An Ivalue expression of type "%1\$s" cannot be converted to type "%2\$s".

**Explanation:** Conversion from an Ivalue expression of type "%1\$s" to type "%2\$s" cannot be done in this context.

In the message text:

"%1\$s" is the original type. "%2\$s" is the target type.

**User response:** Change the types or provide conversion functions.

#### CCN8464

An xvalue expression of type "%1\$s" cannot be converted to type "%2\$s".

**Explanation:** Conversion from an xvalue expression of type "%1\$s" to type "%2\$s" cannot be done in this context.

In the message text:

"%1\$s" is the original type. "%2\$s" is the target type.

**User response:** Change the types or provide conversion functions.

#### **CCN8465**

An object or reference of type "%2\$s" cannot be initialized with a prvalue of type "%1\$s".

**Explanation:** This object or reference must be initialized with a glvalue or a prvalue of a type other than "%1\$s".

In the message text:

"%2\$s" is the type of the object. "%1\$s" is the type of the prvalue.

**User response:** Change the type of the object or reference.

#### CCN8466

A parameter of type "%2\$s" cannot be initialized with a prvalue of type "%1\$s".

**Explanation:** This parameter must be initialized with a glvalue or a prvalue of a type other than "%1\$s".

In the message text:

#### CCN8467 • CCN8475

"%2\$s" is the type of the parameter. "%1\$s" is the type of the prvalue.

**User response:** Change the type of the parameter.

CCN8467

A return value of type "%2\$s" cannot be initialized with a prvalue of type "%1\$s".

**Explanation:** The return value must be initialized with a glvalue or a prvalue of a type other than "%1\$s".

In the message text:

"%2\$s" is the return type. "%1\$s" is the type of the prvalue.

**User response:** Change the return type.

**CCN8468** 

An object or reference of type "%2\$s" cannot be initialized with an Ivalue of type "%1\$s".

**Explanation:** This object or reference must be initialized with an rvalue or an Ivalue of a type other than "%1\$s".

In the message text:

"%2\$s" is the type of the object. "%1\$s" is the type of the lvalue.

**User response:** Change the type of the object or reference.

CCN8469

A parameter of type "%2\$s" cannot be initialized with an lvalue of type "%1\$s".

**Explanation:** This parameter must be initialized with an rvalue or an Ivalue of a type other than "%1\$s".

In the message text:

"%2\$s" is the type of the parameter. "%1\$s" is the type of the lvalue.

**User response:** Change the type of the parameter.

CCN8470

A return value of type "%2\$s" cannot be initialized with an lvalue of type "%1\$s".

**Explanation:** The return value must be initialized with an rvalue or an Ivalue of a type other than "%1\$s".

In the message text:

"%2\$s" is the return type. "%1\$s" is the type of the lvalue.

**User response:** Change the return type.

CCN8471

An object or reference of type "%2\$s" cannot be initialized with an xvalue of type "%1\$s".

**Explanation:** This object or reference must be initialized with an expression that is not an xvalue of type "%1\$s".

In the message text:

"%2\$s" is the type of the object. "%1\$s" is the type of the xvalue.

**User response:** Change the type of the object or reference.

CCN8472

A parameter of type "%2\$s" cannot be initialized with an xvalue of type "%1\$s".

**Explanation:** This parameter must be initialized with an expression that is not an xvalue of type "%1\$s".

In the message text:

"%2\$s" is the type of the parameter. "%1\$s" is the type of the xvalue.

**User response:** Change the type of the parameter.

CCN8473

A return value of type "%2\$s" cannot be initialized with an xvalue of type "%1\$s".

**Explanation:** The return value must be initialized with an expression that is not an xvalue of type "%1\$s".

In the message text:

"%2\$s" is the return type. "%1\$s" is the type of the xvalue.

**User response:** Change the return type.

CCN8474

The scoped enumeration variable "%1\$s" cannot be converted to "%2\$s".

**Explanation:** Scoped enums cannot be implicitly converted to any other type.

In the message text:

"%1\$s" is the scoped enum variable that is being implicitly converted to type "%2\$s".

**User response:** Use a scoped enum only in the context of a scoped enum of the same type to avoid the need for a conversion.

CCN8475

The case expression "%1\$s" should be of type "%2\$s".

**Explanation:** The case expression "%1\$s" has a type different from "%2\$s", which is the type of the switch condition.

In the message text:

"%1\$s" is the case statement, "%2\$s" is the scoped enum type of the condition in the switch statement.

**User response:** Scoped enums of matching types can only be used throughout a switch/case statement.

CCN8600 "%1\$s" operator cannot be overloaded.

**Explanation:** The attempted operator overload is not valid.

In the message text:

"%1\$s" is the operator.

**User response:** Change the declaration to overload a different operator.

CCN8601 Forward declaration of the enumeration "%1\$s" is not allowed.

**Explanation:** Enumerations cannot have forward declarations.

In the message text:

"%1\$s" is the enumeration.

**User response:** Define the enumeration before attempting to use an elaboration of the enumeration.

# CCN8602 The first non-matching token was encountered on line %1\$s, column %2\$s. A project cannot contain more than one definition of a class unless each definition consists of the same sequence

**Explanation:** Informational message indicating the first token that differs in the two class definitions.

In the message text:

"%1\$s" is the line number. "%2\$s" is the column number.

User response: See the primary message.

of tokens.

CCN8603 The parameter must not be specified with this scheduling type.

**Explanation:** This schedule clause kind does not allow a chunk\_size parameter.

**User response:** Remove the chunk\_size expression from the schedule clause.

CCN8606 "restrict" can only qualify a pointer or reference type. The "restrict" keyword is ignored.

**Explanation:** The "restrict" qualifier is only allowed to adorn a pointer or a reference type.

**User response:** Apply the "restrict" keyword to a pointer or reference type.

CCN8607

The "\_callback" keyword can only adorn a pointer to a function. The keyword is ignored.

**Explanation:** The "\_\_callback" keyword is only allowed to adorn a pointer to a function.

**User response:** Remove the \_\_callback or apply the "\_\_callback" to a pointer to a function.

CCN8608

The "\_ptr32" qualifier cannot be applied to a pointer that is in the return type of a function or in a parameter to a function.

**Explanation:** The "\_\_ptr32" qualifier is not allowed on a pointer that is part of a function type. That is, a pointer that is part of a function return type or part of a function parameter type.

**User response:** Remove the \_\_ptr32 qualifier.

CCN8609 The linkage keyword "%1\$s" is deprecated and has no meaning

deprecated and has no meaning. The keyword is ignored.

**Explanation:** The linkage keyword has no meaning and is ignored.

In the message text:

"%1\$s" is the deprecated linkage keyword.

**User response:** Remove the linkage keyword.

CCN8610 The pascal string is too long. It will be truncated to 255 bytes in length.

**Explanation:** The pascal string can be a maximum of 255 bytes in length.

**User response:** Shorten the pascal string.

CCN8611 The name "%1\$s" can only be used to declare a constructor.

**Explanation:** The constructor for a class cannot be used as a type specifier.

In the message text:

"%1\$s" is the constructor.

**User response:** Declare the constructor or specify a valid type.

CCN8612

The hexadecimal floating point constant "%1\$s" cannot be represented exactly in its evaluated format.

**Explanation:** Due to limits on the number of significant digits, the hexadecimal floating point constant is rounded.

In the message text:

#### CCN8613 • CCN8625

"%1\$s" is the hexadecimal floating constant.

**User response:** Change the hexadecimal floating point constant so that it fits in the evaluation format.

### CCN8613 A variable length array type cannot be used in a compound literal expression.

**Explanation:** A compound literal expression can only have an array type of unknown size or fixed size.

**User response:** Remove the variable array type from the compound literal.

#### **CCN8614**

The static keyword or type qualifiers are ignored unless they are in the outermost array index of a function parameter.

**Explanation:** The array index contains the static keyword or type qualifiers. When the static keyword or type qualifiers are used to specify the dimension of an array, they can only be used for the declaration of function parameters and only in the outermost array dimension.

**User response:** Remove the static keyword or type qualifiers.

#### CCN8615

The attribute "%1\$s" cannot be applied to this variable. The attribute is ignored.

**Explanation:** The attribute is generally not supported for the type of variable.

In the message text:

"%1\$s" is the attribute specified.

**User response:** Remove the section attribute specifier.

#### CCN8616

A different section was specified for "%1\$s"; the new specification is used.

**Explanation:** The new section specification overrides the previous one.

In the message text:

"%1\$s" is an identifier.

**User response:** Remove the previous specification of attribute "section".

#### **CCN8617**

The attribute "section" has been specified more than once; the last specification is used.

**Explanation:** The identified attribute was specified more than once; the last specification is used.

**User response:** Remove the duplicate attribute specifier.

#### **CCN8618**

The class template name "%1\$s" did not match an injected class name and must be followed by a template parameter list.

**Explanation:** The template must have its template parameter list specified.

In the message text:

"%1\$s" is the name of the template class.

**User response:** Add the < and the appropriate template parameter list followed by >.

#### CCN8619

The anonymous enumeration declaration does not declare a name.

**Explanation:** An anonymous enumeration has been specified without an enumerator list.

**User response:** Either name the indicated enumeration or specify its enumerators.

#### CCN8621

The type attribute "%1\$s" is ignored because it is not supported for this type.

**Explanation:** The identified attribute is attached to the type of the declarator, but it is not supported for this type.

In the message text:

"%1\$s" is the invalid attribute.

**User response:** Remove the attribute specifier or, if you wish to specify it on a variable, attach it to the variable by placing it after the variable declarator.

#### CCN8622

The expression must be an integral non-volatile expression.

**Explanation:** Only an integral expression can be used in this context, but a non-integral expression is specified.

**User response:** Change the expression to be an integral expression.

#### CCN8623

A character string literal cannot be concatenated with a wide string literal.

**Explanation:** You can only concatenate character string literals or wide string literals, but not both together.

**User response:** Change the string concatenation.

#### CCN8625

The asm label specification cannot be applied to a constructor or destructor declaration. The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

**User response:** Remove the asm label specifier.

CCN8626 The asm label specification cannot be applied to a local object or static object.

The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

User response: Remove the asm label specifier.

CCN8627

The asm label specification cannot be applied to a non-static data member. The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

**User response:** Remove the asm label specifier.

CCN8628

The asm label specification cannot be applied to a template function declaration or any declaration contained within a template. The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

User response: Remove the asm label specifier.

CCN8629

The asm label specification cannot be applied to a typedef declaration. The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

**User response:** Remove the asm label specifier.

CCN8630

The asm label specification cannot be applied to a virtual member function declaration. The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

**User response:** Remove the asm label specifier.

CCN8631

The asm label specification cannot be applied to a friend declaration. The asm specification is ignored.

**Explanation:** An asm label cannot be specified in this type of declaration.

**User response:** Remove the asm label specifier.

CCN8633 Decimal floating-point constant "%1\$s" is out of range.

**Explanation:** The compiler detected a decimal floating-point overflow or underflow while scanning a constant or performing constant arithmetic folding.

In the message text:

"%1\$s" is a decimal floating-point constant.

**User response:** Change the decimal floating-point constant so that it fits in the evaluation format or use a format with higher precision. See the XL C/C++ Language Reference for details on the valid format.

CCN8634

Decimal floating-point constant "%1\$s" cannot be represented exactly in its evaluated format.

**Explanation:** Due to limits on the number of significant digits, the decimal floating-point constant is rounded.

In the message text:

"%1\$s" is a decimal floating-point constant.

**User response:** Change the decimal floating-point constant so that it fits in the evaluation format or use a format with higher precision. See the XL C/C++ Language Reference for details on the valid format.

CCN8638

The \_thread keyword can only be specified for external or static data.

**Explanation:** The \_\_thread keyword is used in an invalid context.

**User response:** Remove the \_\_thread attribute.

CCN8639

The attribute "%1\$s" is specified for "%2\$s"; the attribute "%3\$s" is ignored.

**Explanation:** The attribute "%1\$s" has the higher priority than the attribute "%3\$s".

In the message text:

"%1\$s" and "%3\$s" are attribute names. "%2\$s" is an identifier.

**User response:** Use only attribute %1\$s" or attribute "%3\$s" for the variable.

CCN8640

A different attribute common/nocommon was specified; the new specification is used.

**Explanation:** The new attribute common/nocommon specification overwrites the previous one.

**User response:** Remove the previous specification of attribute common/nocommon.

CCN8641 The type "%1\$s" is not supported on the target architecture.

**Explanation:** The target architecture does not natively support machine instructions for the specified type.

In the message text:

"%1\$s" is a type.

**User response:** Remove the reference to the type.

CCN8643 No static initialization may refer to the address of a thread-local variable.

Explanation: The \_\_thread keyword is used in an invalid context.

**User response:** Remove the \_\_thread attribute.

CCN8644 The "[" has no matching "]".

**Explanation:** There is an imbalance of left and right brackets.

**User response:** Ensure that each left bracket has a matching right bracket.

CCN8645 Attribute "%1\$s" has been specified more than once; the last specification is used.

**Explanation:** The new attribute specification overwrites the previous one.

In the message text:

"%1\$s" is an attribute name.

**User response:** Remove the previous specification of attribute "%1\$s".

**CCN8646** "auto" is a storage class in this context and cannot be specified with any other

storage class.

**Explanation:** "auto" is a storage class in this context and it conflict with another storage class.

User response: Remove extra storage class specifers so there is just one specifier.

CCN8647 Expecting single token "auto" for trailing return type placeholder.

Explanation: Auto type specifier placeholder can be single token only in conjuction with trailing return type.

User response: Please specify "auto" for trailing return type placeholder.

**CCN8648** "auto" type specifier can only be specified for static members with constant initializers.

**Explanation:** "auto" is a type specifer in this context and it is not supported for non-static class members.

**User response:** Remove the "auto" type specifier or make the member static.

**CCN8649** "auto" is a type specifier in this context. "%1\$s" must have an initializer for automatic type deduction.

**Explanation:** "auto" is a type specifer in this context, an initializer must be supplied to deduce the type.

In the message text:

"%1\$s" is the variable name.

**User response:** Specify an initializer for "%1\$s".

CCN8650 The second operand to a static\_assert expression must be a string literal.

**Explanation:** The second operand to a static\_assert expression represents the diagnostic message to be displayed upon assertion failure.

**User response:** Replace the second operand to the static\_assert expression with a string literal.

CCN8651 The argument to decltype must be an expression.

**Explanation:** The argument given to the decltype operator is not an expression.

**User response:** Pass an expression to decltype.

Decltype is being used but decltype is CCN8652 not enabled. To enable decltype use -qlanglvl=decltype.

**Explanation:** Decltype has not been enabled but is present.

**User response:** Enable decltype or do not use the decltype operator.

CCN8653 Auto type is not supported in top-level array type.

Explanation: Auto type has been specified in top-level array type and is unsupported.

**User response:** Do not use auto type in top-level array types.

CCN8654 Auto type is not supported for brace list initialization.

**Explanation:** Auto type has been specified in brace list initialization and is unsupported.

**User response:** Do not use auto type in brace list initialization.

CCN8655 Auto type is not supported here.

**Explanation:** Auto type has been specified in an unsupported construct.

**User response:** Do not use auto type in this construct.

CCN8656

A non-function friend declaration must consist of a friend specifier followed by an elaborated-type-specifier, simple-type-specifier or typename-specifier.

**Explanation:** C++0x allows only specific syntactic forms for non-function friend declarations.

**User response:** Use one of the allowed forms. It may be necessary to use multiple friend declarations.

CCN8657 Variable declared with auto type cannot appear in its initializer.

**Explanation:** Variable declared with auto type was used in its initializer.

**User response:** Do not use variable declared with auto type in its initializer.

CCN8658 Auto type cannot be declared with more than one type token.

**Explanation:** Variable declared with auto type has been declared with additional type tokens.

**User response:** Remove additional type tokens.

CCN8659 Auto type specifier is not supported on functions without trailing return type.

**Explanation:** Trailing return type is missing for this function declarator.

**User response:** Please apply trailing-return-type in conjunction with auto type.

CCN8660

The "explicit" specifier must be applied only to declarations of constructors or conversion operators within a class declaration.

**Explanation:** The "explicit" specifier is being applied to something other than a constructor or conversion operator that is being declared in-line in the class.

User response: Remove the "explicit" specifier.

CCN8661 The underlying type "%1\$s" is not an integral type.

**Explanation:** The underlying type of the enumeration should be an integral type.

In the message text:

"%1\$s" is the underlying type used by the user.

**User response:** Please use an integral type as the underlying type.

CCN8662 The scoped enum should have a name.

**Explanation:** Scoped enums cannot be anonymous.

**User response:** Give the scoped enum a name or make it unscoped.

CCN8663 The keyword "%1\$s" is not allowed in an enum elaborated type specifier.

**Explanation:** The elaborated type of scoped enums is the same as that of unscoped enums.

In the message text:

The keyword "%1\$s" is not allowed in the elaborated type.

User response: Remove the extra keyword "%1\$s".

CCN8664 Enumerator "%1\$s" has value "%2\$s", which does not fit in the underlying type "%3\$s".

**Explanation:** Enumerator values should be representable by the enumeration's underlying type.

In the message text:

"%1\$s" is the enumerator's name, "%2\$s" is the enumerator value, and "%3\$s" is the underlying type of the enumeration.

**User response:** Change the underlying type to fit the value, or change enumerator value if possible.

CCN8665 Unexpected specifiers in enumeration's underlying type found.

**Explanation:** The underlying type of an enumeration should not contain any specifiers.

**User response:** Remove any specifiers from the enumeration's underlying type.

CCN8666 The "noreturn" specifier must be applied only to function declarations.

**Explanation:** The "noreturn" specifier is being applied to something other than a function.

User response: Remove the "noreturn" specifier.

#### CCN8667 • CCN8706

**CCN8667** "%1\$s" cannot be declared as noreturn.

**Explanation:** There are restrictions on "main" since it is the program starting point.

In the message text:

"%1\$s" is the function name.

**User response:** Remove the noreturn specifier.

**CCN8668** Forward declared unscoped enums should have a fixed underlying type.

**Explanation:** Unscoped enumerations with no explicit underlying type cannot be forward declared.

User response: Add an underlying type to the forward declaration of the unscoped enum.

**CCN8669** "%1\$s" is a scoped enumerator and cannot be named by a using-declaration.

Explanation: using-declarations cannot name scoped enumerators.

In the message text:

"%1\$s" is the enumerator that is being named by the using-declaration.

**User response:** Make the enumerator unscoped, or remove the whole using-declaration.

CCN8670 "%1\$s" is invalid. Qualified enumeration names cannot be forward declared.

**Explanation:** Forward declaration of enums cannot use nested-name-specifiers in the enum name.

In the message text:

"%1\$s" is the qualified name used in the forward declaration.

User response: Remove the nested-name-specifier from "%1\$s".

CCN8671 Unable to deduce the type of variable "%1\$s" from expression "%2\$s".

**Explanation:** The compiler was unable to deduce the type of the auto variable from the initializer expression provided.

In the message text:

"%1\$s" is the name of the variable, "%2\$s" is the initializer expression provided to deduce the type of the variable.

**User response:** Provide a correct initializer exprssion or specify the type of the variable.

CCN8672 Vector initializer list is non-portable.

**Explanation:** Vector initializer list is non-portable.

**User response:** Use parenthesis-style initialization

instead.

CCN8701 The "pragma datamodel" stack is empty. The pragma is ignored.

**Explanation:** An attempt has been made to restore the previous pragma setting, but this is the first instance of the pragma.

**User response:** Remove the pragma.

CCN8702 Invalid syntax for pragma datamodel.

**Explanation:** The compiler has detected an invalid

pragma datamodel syntax.

**User response:** Correct the syntax.

CCN8703 pragma datamodel(LLP64 | P128) seen without matching pragma datamodel(pop).

**Explanation:** At the end of compilation there was an extra pragma datamodel on the stack.

User response: Ensure that all pragma datamodel directives have a matching pragma datamodel(pop).

CCN8704 The base class has a different data model than this derived class.

Explanation: Base and derived classes must have identical data models.

**User response:** Change the data model of one of the classes.

CCN8705 Cannot initialize a static \_\_ptr64 with a \_\_ptr128 value.

Explanation: A \_\_ptr64 variable is being initialized with a constant value when the storage model indicates such values are \_\_ptr128s.

User response: Use a different initialization value or a different storage model.

The declaration "%2\$s" specified in CCN8706 "pragma %1\$s" cannot be found.

Explanation: Name lookup failed for the variable or type specified in the pragma.

In the message text:

"%1\$s" is the name of the pragma. "%2\$s" is the variable or type name.

User response: Change the pragma to refer to a

declared variable or type or declare the indicated variable or type.

#### CCN8707

The pragma map has been applied to function "%1\$s", which has internal linkage. The pragma is ignored.

**Explanation:** An internal linkage function cannot be mapped.

In the message text:

"%1\$s" is the function name.

**User response:** Change the function's linkage or remove the pragma.

#### **CCN8708**

The divisor for the modulus or division operator cannot be zero.

**Explanation:** The result of the calculation is undefined.

**User response:** Change the value of the divisor or change the operator.

#### CCN8709

The pragma "%1\$s" directive must occur before the first C++ statement in the program. The directive is ignored.

**Explanation:** The pragma must precede any C++ statement in the program.

In the message text:

"%1\$s" is the pragma name.

**User response:** Move the pragma directive before any C++ statement.

#### CCN8710

The pragma "%1\$s" is ignored because the "%2\$s" option is not specified.

**Explanation:** The pragma must only be used when the option is specified.

In the message text:

"%1\$s" is the pragma name, "%2\$s" is the missing option.

**User response:** Remove the pragma or specify the option.

#### CCN8711

Detected "%1\$s": "%2\$s"

**Explanation:** The pragma runopts has invalid arguments.

In the message text:

"%1\$s" is the message number, "%2\$s" is the message text

User response: Correct the arguments.

#### CCN8712

The pragma enum is not allowed in the middle of a declaration of an enumeration. This pragma is in effect after the enumeration declaration.

**Explanation:** The pragma enum cannot appear inside a declaration of an enumeration.

**User response:** Place the pragma before or after the enum declaration.

#### CCN8713

The pragma "%1\$s" is ignored because the locale compiler option is not specified.

**Explanation:** The locale compiler option is required for pragma "%1\$s"

In the message text:

"%1\$s" is the pragma name.

**User response:** Remove all the pragma &1 directives or specify the locale compiler option.

#### CCN8715

The pragma runopts is not implemented with 64-bit mode.

**Explanation:** The pragma runopts is not supported with 64-bit mode in the current release.

**User response:** Remove the pragma runopts if compiled in 64-bit mode.

#### CCN8716

The "pragma wsizeof" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the wsize of stack is empty.

**User response:** Remove the pragma or ensure that the stack is not empty.

#### CCN8717

The "pragma %1\$s" is not allowed in namespace scope. The pragma is ignored.

**Explanation:** The pragma is ignored because it is specified in namespace scope.

In the message text:

"%1\$s" is the pragma name.

**User response:** Use this pragma in a global scope.

#### CCN8718

The unroll and nounroll pragmas must be applied to a for-loop or block\_loop construct. The pragma is ignored.

**Explanation:** The pragma is ignored because it is not applied to a for loop.

**User response:** Remove the offending pragma.

#### CCN8719 • CCN8735

CCN8719

Only one unroll directive may be specified on a single loop or block\_loop. The pragma is ignored.

**Explanation:** The pragma is ignored because it conflicts with another pragma specified on the same loop.

**User response:** Remove the conflicting pragma.

CCN8720

The unroll pragma unrolling factor must be a positive scalar integer initialization expression. The pragma is ignored.

**Explanation:** The pragma is ignored because its unrolling factor is not a positive scalar integer.

**User response:** Change the pragma factor to a positive scalar integer.

CCN8721

The "pragma pass\_by\_value" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the pass\_by\_value stack is empty.

User response: Remove the pragma or ensure that the stack is not empty.

CCN8722

The declaration "%2\$s" specified in pragma "%1\$s" must be a variable. The pragma is ignored.

**Explanation:** The pragma is ignored because the declaration in the variable list is not a variable.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is a declaration.

**User response:** Remove the declaration from the pragma declaration list.

CCN8723

The variable "%2\$s" specified in pragma "%1\$s" must be not be a member variable. The pragma is ignored.

**Explanation:** The pragma is ignored because the variable in the variable list is a member of a class.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is a variable name.

User response: Remove the variable from the pragma declaration list.

CCN8724

The ccsid code page number "%1\$s" specified in #pragma convert is not valid. The pragma is ignored.

**Explanation:** A valid ccsid suboption for #pragma convert is needed.

In the message text:

"%1\$s" is a ccsid code page number.

**User response:** Specify a different cosid number or remove the pragma.

CCN8725

Missing "%1\$s" "%2\$s" directive(s). The matching "%3\$s" is/are no longer in

**Explanation:** The "%3\$s" is ignored because it needs a matching "%1\$s".

In the message text:

"%1\$s" is either convert or convlit. "%2\$s" is either pop or resume. "%3\$s" is either convert or convlit.

**User response:** Add the missing "%1\$s" pragma or remove the "%3\$s" pragma.

CCN8726

An empty pragma directive was found. The pragma directive is ignored.

**Explanation:** The pragma directive is ignored because there is no pragma specified in the directive.

**User response:** Remove the pragma directive or complete the pragma.

CCN8727

The "pragma nameManglingRule" stack is empty. The pragma is ignored.

**Explanation:** The pragma is ignored because the pragma nameManglingRule stack is empty.

**User response:** Remove the pragma or ensure that the pragma nameManglingRule stack is not empty.

CCN8728

The declaration "%2\$s" specified in "pragma %1\$s" has already been defined. The pragma is ignored.

**Explanation:** The identifier found in the pragma cannot be redefined.

In the message text:

"%1\$s" is the name of the pragma and "%2\$s" is the name of the identifier.

**User response:** Remove the definition of the identifier in question or remove the pragma.

CCN8735

The use of pragma once is deprecated. It may not be supported in future releases of the compiler or on other platforms.

**Explanation:** The pragma is provided for support of legacy code on some platforms. The continued use of this pragma is discouraged.

User response: Replace the use of this pragma with a C/C++ style header guard.

CCN8736

The loopid pragma can only be specified once per loop. The pragma is ignored.

**Explanation:** The pragma is ignored because this loop already has one loopid specified.

**User response:** Remove the offending pragma.

CCN8737

The loopid pragma may only be specified before a for loop or block\_loop directive. The pragma is ignored.

**Explanation:** The pragma is ignored because the statement that follows it is not applicable to the loopid directive.

**User response:** Remove the offending pragma.

**CCN8738** 

A loopid pragma must be unique within its enclosing scope. The pragma is ignored.

**Explanation:** The pragma is ignored because it is within the enclosing scope of another pragma loopid which has the same loopid name.

**User response:** Remove the offending pragma.

CCN8739

A block\_loop pragma should precede a for loop or another block\_loop directive. The pragma is ignored.

**Explanation:** The pragma is ignored because the statement that follows it is not applicable to the block\_loop directive.

**User response:** Remove the offending pragma or move it to the correct place.

CCN8740

The block\_loop directive is invalid because loopid, "%1\$s", is not found within the loop nest. The pragma is ignored.

**Explanation:** The pragma is ignored because the loopid specified is not a valid loopid.

In the message text:

%1\$s is the loopid name.

**User response:** Remove the offending pragma.

CCN8741

A block\_loop directive may only be specified on a perfect loop nest. The pragma is ignored.

**Explanation:** The pragma is ignored because it is not applied to a perfect loop nest.

**User response:** Remove the offending pragma or fix the loop nest.

CCN8742

The loopid identifier name specified in this directive is not valid. The pragma is ignored.

**Explanation:** The pragma is ignored because the loopid identifier name is not in the proper format.

**User response:** Remove the offending pragma or fix the loopid identifier name.

CCN8743

The nosimd pragma can only be specified before a for, while, or do loop. The pragma is ignored.

**Explanation:** The pragma is ignored because it is not specified before a loop.

**User response:** Remove the offending pragma.

CCN8744

The novector pragma can only be specified before a for, while, or do loop. The pragma is ignored.

**Explanation:** The pragma is ignored because it is not specified before a loop.

**User response:** Remove the offending pragma.

CCN8745

The blocking factor specified for the block\_loop directive must be a positive integral value. The pragma is ignored.

**Explanation:** The pragma is ignored because the blocking factor is not in the proper format.

**User response:** Remove the offending pragma or fix the blocking factor.

CCN8746

The unroll pragmas may not be applied to %1\$s. The pragma is ignored.

**Explanation:** The pragma is ignored because it is not applied to a for loop.

In the message text:

%1\$s is the statement to which the unroll pragma applies.

**User response:** Remove the offending pragma.

CCN8747

The Loopid directive has been referred to by more than one block\_loop directive

**Explanation:** A loop may only be blocked by one block\_loop directive.

**User response:** Remove the offending block\_loop directive, or block a different loop.

#### CCN8749 • CCN8801

CCN8749

The conflicting mapping is specified on line %1\$s of "%2\$s".

**Explanation:** Informational message about the coordinates of the conflicting pragma map or asm label.

In the message text:

"%1\$s" is the line number, "%2\$s" is the file name.

User response: Correct the mapped names for consistency.

#### CCN8751

There is no matching #pragma extension for "pop" argument in the same file. The pragma will be ignored.

**Explanation:** An attempt has been made to apply #pragma extension (pop) without a matching pragma extension in the same file.

User response: Remove the pragma.

#### CCN8753

pragma "%1\$s" must be specified at file scope. The pragma is ignored.

**Explanation:** The pragma directive is ignored because it has been specified at an invalid scope.

In the message text:

"%1\$s" is the name of the pragma.

**User response:** Move the pragma directive to file scope.

#### CCN8754

The pragma "%1\$s" directive must occur before the first CICS statement in the program. The directive is ignored.

**Explanation:** The pragma must precede any CICS statement or CICS keyword in the program.

In the message text:

"%1\$s" is the name of the pragma.

User response: Move the pragma directive before any CICS statement or CICS keyword.

#### CCN8755

The "pragma report" stack is empty. The pragma is ignored.

Explanation: The pragma is ignored because the pragma report stack is empty.

User response: Remove the pragma or ensure that the pragma report stack is not empty.

#### CCN8756

An error was detected while writing to the temporary file "%1\$s". The file system may be full.

Explanation: An error occurred writing to an intermediate code file. Please verify that the target file system exists, is writable, and is not full.

In the message text:

"%1\$s" is a file name.

**User response:** Ensure that the designated location for temporary objects exists, is writable, and is not full.

#### CCN8757

Compiler cannot create the temporary file "%1\$s". The file system may be full or not writable.

Explanation: The intermediate code files could not be created. Please verify that the target file system exists, is writable, and is not full.

In the message text:

"%1\$s" is a file name.

**User response:** Ensure that the designated location for temporary objects exists, is writable, and is not full.

#### CCN8758

"pragma %1\$s" is already specified for this option. The entire pragma clause is ignored.

**Explanation:** The entire pragma clause is ignored because one or more options it contains have already been specified.

In the message text:

"%1\$s" is the name of the pragma that is ignored.

**User response:** Remove the pragma specification.

#### CCN8800

The omp threadprivate variable "%1\$s" is not allowed to appear in the "%2\$s"

**Explanation:** Threadprivate variables are allowed in copyin, schedule and if clauses.

In the message text:

"%1\$s" is the variable name, "%2\$s" is the incorrect clause.

**User response:** Remove the clause or change the variable from being threadprivate.

#### CCN8801

The expression "%1\$s" is not allowed to appear in the "%2\$s" clause, where a variable is expected.

**Explanation:** The expression "%1\$s" is not a variable or name expression.

In the message text:

"%1\$s" is an expression. "%2\$s" is an omp clause.

**User response:** Only use variable names in the clause.

CCN8802

The "%1\$s" qualifier in argument "%2\$s" is ignored in the linkage signature for function "%3\$s".

**Explanation:** Top-level cv-qualifiers in function arguments are not part of the function parameter types, and are not included in the function linkage signature.

In the message text:

"%1\$s" is a cv-qualifier. "%2\$s" is a function argument. "%3\$s" is the function.

**User response:** Remove the cv-qualifier in question from the function argument in the specified function declaration.

#### **CCN8803**

Build with the "%1\$s" compiler option to include cv-qualifiers of function arguments in function linkage signatures.

**Explanation:** Informational message about the option for including cv-qualifiers of function arguments in function linkage signatures.

In the message text:

"%1\$s" is the compiler option that includes cv-qualifiers of function arguments in the function linkage signature.

**User response:** See the primary message.

#### CCN8804

The linkage specifier %1\$s is invalid in "%2\$s" mode.

**Explanation:** This linkage specifier has no meaning unless the object is built with the opposite XPLINK mode.

In the message text:

%1\$s is a linkage specifier (i.e. OS\_DOWNSTACK) "%2\\$s" is the current XPLINK mode.

**User response:** Turn on or off the XPLINK option.

#### CCN8805

"%1\$s" has an invalid return type for the OS linkage specifier.

**Explanation:** Only functions with a return type of int or void may be used with the OS linkage specifier.

In the message text:

"%1\$s" is the function.

**User response:** Check the return type or remove the OS linkage specifier.

#### CCN8806

The linkage specifier %1\$s is not supported in the current context.

**Explanation:** This linkage specifier is not supported in the current context and its usage may result in incorrect output.

In the message text:

%1\$s is a linkage specifier (i.e. OS\_DOWNSTACK)

**User response:** Refer to the compiler documentation for correct usage in the current context.

#### **CCN8807**

The return type "%1\$s" must not be used for a function that is declared to be extern "FORTRAN".

**Explanation:** A function that has extern "FORTRAN" language linkage can only return void, integral or double on certain platforms.

In the message text:

"%1\$s" is the invalid function return type.

**User response:** Change the return type of the function to be void, integral or double.

#### **CCN8808**

The return type "%1\$s" must not be used for a function that is declared to be extern "COBOL".

**Explanation:** A function that has extern "COBOL" language linkage can only return void on certain platforms.

In the message text:

"%1\$s" is the invalid function return type.

**User response:** Change the return type of the function to be void.

#### **CCN8809**

The function "%1\$s" must not be declared \_\_cdecl because the overridden function "%2\$s" is not declared \_\_cdecl.

Explanation: A virtual function can only be declared \_\_cdecl when the function in the base class is also \_\_cdecl.

In the message text:

"%1\$s" is the invalid function, "%2\$s" is the overridden function.

**User response:** Remove the \_\_cdecl qualifier from the derived class's overriding function or add the \_\_cdecl qualifier to the base class's overridden function.

#### CCN8810

The function "%1\$s" must be declared \_\_cdecl because the overridden function "%2\$s" is declared \_\_cdecl.

**Explanation:** A virtual function must be declared \_\_cdecl when the function in the base class is declared \_\_cdecl.

In the message text:

"%1\$s" is the invalid function, "%2\$s" is the overridden function.

#### CCN8811 • CCN8821

**User response:** Add a \_\_cdecl qualifier to the derived class's overriding function or remove the \_\_cdecl qualifier from the base class's overridden function.

#### **CCN8811**

The linkage of the virtual function "%1\$s" does not match the linkage of the overridden function "%2\$s".

**Explanation:** Virtual functions must have compatible linkage since there are several different ways of calling the function and they must all have the same linkage.

In the message text:

"%1\$s" is the invalid function, "%2\$s" is the overridden function.

**User response:** Ensure that the linkages match.

#### CCN8812

The argument of a 'num\_threads' clause must be a positive integer expression.

**Explanation:** The number of threads in a team must be positive.

**User response:** Change the argument in the 'num\_threads' clause to a positive integer expression.

#### CCN8813

The argument of a 'num\_threads' clause must be an integer expression.

**Explanation:** The type of the 'num\_threads' argument must be integer.

**User response:** Change the argument in the 'num\_threads' clause to an expression of integer type.

#### CCN8814

The threadprivate variable '%1\$s' must be a file scope or namespace scope variable or static block scope variable.

**Explanation:** The variable specified in the 'threadprivate' directive must be the outermost scope variable or local static variable.

In the message text:

"%1\$s" is the threadprivate variable.

**User response:** Declare the variable static or move its declaration to the outermost scope.

#### CCN8815

The iteration variable must not be

**Explanation:** The iteration variable must not change in the loop body, therefore it must not be volatile.

**User response:** Remove the 'volatile' qualifier for the loop variable, or use another loop variable.

#### CCN8816

The threadprivate variable '%1\$s' must not be referenced prior to the #pragma omp threadprivate directive.

**Explanation:** The variable '%1\$s' must be listed in #pragma omp threadprivate directive before its first usage.

In the message text:

"%1\$s" is the threadprivate variable.

**User response:** Move #pragma omp threadprivate directive before the first usage of variables listed in the directive.

#### **CCN8817**

The threadprivate directive for variable '%1\$s' must not appear within a nested scope of that variable.

**Explanation:** The threadprivate directive for variable '%1\$s' must appear within the scope of the variable declaration.

In the message text:

"%1\$s" is the threadprivate variable.

**User response:** Move #pragma omp threadprivate directive so that it appears within the scope of the variable declaration and not in a nested scope.

#### CCN8819

Format string contains unknown conversion type character '%1\$s' in conversion %2\$s.

**Explanation:** An incorrect character has been specified in the format string syntax.

In the message text:

"%1\$s" is the incorrect format character and %2\$s is the conversion specification information.

**User response:** Remove the character in question.

#### CCN8820

The number of arguments is less than required by the format string.

**Explanation:** Not enough arguments have been specified for the format string.

**User response:** Add the argument required for the format string specification.

#### CCN8821

The number of arguments is greater than required by the format string.

**Explanation:** More arguments have been specified than required by the format string.

**User response:** Remove the extra arguments that are not required by the format string.

#### CCN8822 Format string is null.

**Explanation:** The specified format string is a null pointer.

**User response:** Specify a format string which is not null.

#### CCN8823 The format string is empty.

**Explanation:** The specified format string is an empty string.

**User response:** Specify a format string which contains at least one character.

#### CCN8824 The format string contains '\\0'.

**Explanation:** The specified format string contains an embedded '\\0' character.

**User response:** Remove the embedded '\\0' character from format string.

### CCN8825 The format string contains an illegitimate trailing '%%'.

**Explanation:** The specified format string contains a dangling '%%' character.

**User response:** Either specify a conversion specification with the '%%' character or specify two '%%' characters for a percent character.

### CCN8826 The format string is not a string literal and format arguments are not given.

**Explanation:** The specified format string is not a string literal and it may contain conversion specifications for which arguments are not specified.

**User response:** Make sure that enough arguments are specified for the format string.

### CCN8827 The format string is not a string literal and argument types are unchecked.

**Explanation:** The specified format string is not string literal and its argument types cannot be checked.

**User response:** Make sure that correct argument types are specified for the format string.

### CCN8828 A wide character string is not permitted as a format string.

**Explanation:** The specified format string contains wide characters.

**User response:** Remove the wide characters from the format string.

### CCN8829 The format string contains an operand number out of range.

**Explanation:** %n\$ operand number is out of range.

**User response:** Specify an operand number which matches the number of the argument for the format string.

### CCN8830 The format is missing a \$ operand number.

**Explanation:** %n\$ operand number must be specified for all conversion specifications in the format string.

**User response:** Specify an operand number for conversion specifications which are missing operand numbers.

# CCN8831 Unused format argument (arg %1\$s) precedes the used argument (arg %2\$s) in the \$-style format.

**Explanation:** %n\$ operand numbers in format string skip over unused arguments.

In the message text:

%1\$s and %2\$s are argument numbers.

**User response:** Specify operand numbers in the format string which do not skip over unused arguments.

### CCN8832 Not all given arguments are used by \$-style format.

**Explanation:** Extra unreferenced arguments appear in %n\$ operand number format.

**User response:** Specify operand numbers which utilize all specified arguments.

### CCN8833 The format is taking no arguments and given an operand number.

**Explanation:** The operand number is specified for a conversion taking no arguments.

**User response:** Remove the operand number in question.

### CCN8834 %%n\$ operand number formats are unsupported by ISO C++ 98.

**Explanation:** Operand number formats are an extension to ISO C++ 98.

**User response:** Do not use operand number formats in ISO C++ 98 mode.

#### CCN8835 • CCN8844

CCN8835

Invalid use of '%1\$s' flag with '%2\$s' %3\$s format.

**Explanation:** The specified flag name and format conversion combination is unsupported.

In the message text:

%1\$s is a flag name, %2\$s is a conversion name and %3\$s is a function-style name.

**User response:** Remove the flag in question from the specified conversion.

**CCN8836** 

'%1\$s' flag is disregarded when combined with the '%2\$s' flag in a %3\$s format.

Explanation: The specified flag names conflict with each other.

In the message text:

%1\$s and %2\$s are flag names and %3\$s is a function-style name.

**User response:** Remove one of the conflicting flags.

**CCN8837** 

'%1\$s' flag is disregarded when combined with precision and '%2\$s' printf format.

**Explanation:** The specified flag is in conflict with the given precision and conversion.

In the message text:

%1\$s is the flag name and %2\$s is the printf conversion.

**User response:** Remove conflicting flag.

**CCN8838** 

'%1\$s' flag is found repeating in %2\$s

**Explanation:** The flag has been specified multiple times.

In the message text:

%1\$s is the flag name and %2\$s is a function-style name.

User response: Remove the duplicate specifications of the same flag.

**CCN8839** 

The platform %1\$s the use of a non-portable extension character '%2\$s' in the format.

**Explanation:** A non-portable extension character has been specified in a format string.

In the message text:

%1\$s is 'supports' or 'does not support' and %2\$s is an extension character in the format string.

**User response:** This extension character is not supported across platforms.

CCN8840

'%1\$s' flag is unsupported by ISO C++ 98 in %2\$s format.

**Explanation:** The specified flag is an extension to ISO C++ 98.

In the message text:

%1\$s is a flag name and %2\$s is a function-style name.

User response: Do not use the specified flag in ISO C++ 98 mode.

CCN8841

Invalid use of field width in '%1\$s' %2\$s format.

Explanation: The specified field width and format conversion combination is unsupported.

In the message text:

%1\$s is a conversion and \$2\$s is a function-style name.

**User response:** Remove the field width for the specified conversion.

CCN8842

Invalid use of precision in '%1\$s' printf format.

**Explanation:** The specified precision and format conversion combination is unsupported.

In the message text:

%1\$s is a conversion.

User response: Remove the precision for the specified conversion.

**CCN8843** 

Argument '%1\$s' is not an integer type: required for field %2\$s.

**Explanation:** Argument must be int type.

In the message text:

%1\$s is an argument number, %2\$s is a field number.

**User response:** Specify an argument which is int type.

**CCN8844** 

The use of the \$ operand with '\*' %1\$s in a printf format may result in undefined behavior.

**Explanation:** The operand number conflicts with the variable field width or precision.

In the message text:

%1\$s is width or precision.

**User response:** Do not specify an operand number with varible field width or precision.

CCN8845 Invalid %1\$s format for %2\$s argument type in argument %3\$s.

**Explanation:** An invalid argument type has been specified for the given conversion.

In the message text:

%1\$s is conversion, %2\$s is argument type and %3\$s is argument number.

**User response:** Specify an argument type that matches the given conversion type.

CCN8846 '%1\$s' type character is incompatible with '%2\$s' length modifer.

**Explanation:** An invalid type modifier has been specified for the given conversion.

In the message text:

%1\$s is a conversion and %2\$s is a type modifier.

**User response:** Change the type modifier for the given conversion.

CCN8847 Argument %1\$s is expected to be a pointer type.

**Explanation:** The given conversion requires a pointer type.

In the message text:

%1\$s is an argument number.

**User response:** A pointer argument type must be specified for the given conversion.

CCN8848 Argument %1\$s is %2\$s through a null pointer.

**Explanation:** The given conversion was given a const null pointer argument.

In the message text:

%1\$s is an argument number and %2\$s is either "reading" or "writing".

**User response:** Specify an argument which is not a null pointer.

CCN8849 Argument %1\$s is writing into a constant object.

**Explanation:** The argument for a given conversion points to a constant object.

In the message text:

%1\$s is an argument number.

**User response:** Specify an argument which does not point to a constant object.

CCN8850 '%1\$s' %2\$s format is unsupported by ISO C++ 98.

**Explanation:** The given conversion is an extension to ISO C++ 98.

In the message text:

%1\$s is a conversion and %2\$s is a function-style name.

**User response:** Do not use this conversion in ISO C++ 98 mode.

CCN8851 '%1\$s' %2\$s length modifier unsupported by ISO C++ 98.

**Explanation:** The given type modifier is an extension to ISO C++ 98.

In the message text:

%1\$s is a length modifier and %2\$s is a function-style name.

**User response:** Do not use this type modifier in ISO C++ 98 mode.

CCN8852 Invalid %1\$s format for %2\$s argument type in argument %3\$s.

**Explanation:** An invalid argument type has been specified for the given conversion.

In the message text:

%1\$s is a conversion, %2\$s is an argument type and %3\$s is an argument number.

**User response:** Specify an argument type that matches the given conversion type.

CCN8853 Argument %1\$s is expected to have type pointer to void.

**Explanation:** The argument type for the given conversion is not pointer to void.

In the message text:

%1\$s is the argument number.

**User response:** Change argument type for given conversion to pointer to void.

CCN8854 Assignment suppression flag does not take an operand number.

**Explanation:** An operand number was specified for the conversion along with a flag which suppresses argument assignment to that conversion.

**User response:** Remove the operand number.

#### CCN8855 • CCN8866

CCN8855 Invalid use of '\*' flag with a length modifier in scanf format.

**Explanation:** A '\*' flag was specified for a conversion which has a length modifier.

**User response:** Remove the conflicting '\*' flag for the given conversion.

CCN8856 Zero width cannot be specified for an input conversion.

**Explanation:** Zero width was specified in a format string.

**User response:** Specify a positive format width.

CCN8857 Format string contains out of range

integer literal in conversion

specification %1\$s.

**Explanation:** The integer literal is not valid.

In the message text:

"%1\$d" is the number of the conversion specification in format string.

**User response:** Change the integer literal.

CCN8858 Argument %1\$s is expected to be of type pointer to pointer type.

**Explanation:** The given conversion expects pointer to pointer type.

In the message text:

%1\$s is the argument number.

**User response:** Specify an argument of type pointer to pointer for the given conversion.

CCN8859 Argument %1\$s is writing through a null pointer.

**Explanation:** The argument for the given conversion is a const null pointer.

In the message text:

%1\$s is the argument number.

**User response:** Specify an argument for the given conversion which is not a const null pointer.

CCN8860 '%%[' format is missing closing ']'.

Explanation: For '%%[' the closing ']' was not

specified.

**User response:** Specify the closing ']'.

CCN8861 Invalid use of '%1\$s' flag with '%2\$s' flag in %3\$s format.

**Explanation:** Conflicting flags have been specified for the given format conversion.

In the message text:

%1\$s and %2\$s are flag names and %3\$s is a function-style name.

User response: Remove one of the conflicting flags.

CCN8862 Field width unsupported in strict ISO C++ 98 mode.

**Explanation:** The field width for the given format is an extension to ISO C++ 98.

**User response:** Do not use field width in ISO C++ 98 mode.

CCN8863 Only the last two digits of the year are given by the '%1\$s' conversion.

**Explanation:** The given conversion yields a 2-digit year.

In the message text:

%1\$s is conversion name.

**User response:** Find an alternative conversion which yields a 4-year digit.

CCN8864 Only the last two digits of year are given by '%1\$s' conversion in some locales.

**Explanation:** The given conversion yields a 2-digit year in some locales.

In the message text:

%1\$s is the conversion name.

**User response:** Find an alternative conversion which yields a 4-digit year.

CCN8865 Invalid use of '%1\$s' modifier with '%2\$s' strftime format.

**Explanation:** An invalid combination of a modifier and a conversion was specified.

In the message text:

%1\$s is a modifier name and %2\$s is a conversion.

**User response:** Remove the conflicting modifier.

CCN8866 '%1\$s' modifier is found repeating in strftime format.

**Explanation:** The given modifier has been specified multiple times.

In the message text:

%1\$s is a modifier name.

**User response:** Specify modifier only one time for the given conversion.

CCN8867 Invalid use of 'E' modifier with 'O' modifier in strftime format.

**Explanation:** The E and O modifiers conflict with each other for the given format conversion.

**User response:** Remove one of the conflicting modifiers.

CCN8868 The '%1\$s' modifier is unsupported by ISO C++ 98 in the strftime format.

**Explanation:** Modifiers are an extension to ISO C++ 98.

In the message text:

%1\$s is modifier name.

**User response:** Do not use modifiers in ISO C++ 98 mode.

CCN8869 The %1\$s precision in strfmon format is empty.

**Explanation:** An empty precision has been specified for strfmon format.

In the message text:

%1\$s is Left or Right.

**User response:** Specify a number for the precision.

CCN8870 Invalid multibyte character was found in the format string.

**Explanation:** The multibyte character in the format string is invalid.

**User response:** Change the multibyte character.

CCN8871 Format string argument must be a string type.

**Explanation:** The format string argument number specified in \_\_attribute\_\_((format)) or \_\_attribute\_\_((format\_arg)) must be a string type.

**User response:** Change the numeric value in the attribute.

CCN8872 '...' is required for arguments to be formatted.

**Explanation:** The arguments to be formatted in \_\_attribute\_\_((format)) must be an ellipsis.

**User response:** Change the numeric value in the attribute.

CCN8873 User function must return a string type.

**Explanation:** The return type specified in the declaration with \_\_attribute\_\_((format\_arg)) must be a string type.

**User response:** Change the return type.

CCN8874 The '%1\$s' modifier with '%2\$s' format is unsupported by ISO C++ 98 in strftime format.

**Explanation:** The given modifier and format specification is an extension to ISO C++ 98.

In the message text:

%1\$s is modifier name and %2\$s is format name.

**User response:** Do not use the given modifier and format in ISO C++ 98 mode.

CCN8875 The '%1\$s' attribute can only be applied to the definition of a non-static filescope variable.

**Explanation:** The attribute has no effect on filescope static or auto function scoped variables.

In the message text:

%1\$s is the attribute name.

**User response:** Remove the attribute.

CCN8876 Attribute "aligned" cannot be used to decrease the alignment of "%1\$s" and is ignored.

**Explanation:** Do not use the attribute specifier "aligned" to reduce the alignment of a variable or an aggregate.

In the message text:

"%1\$s" is the variable name

**User response:** Remove the use of the attribute specifier "aligned", or increase the value.

CCN8877 The built-in function "%1\$s" is not valid for this target system.

**Explanation:** The built-in function makes use of features not available on this target system.

In the message text:

"%1\$s" is the built-in name

**User response:** Remove the builtin or move the source to a valid target system.

**CCN8878** The built-in function "%1\$s" is not valid for this architecture.

**Explanation:** The built-in function makes use of features not available with this architecture.

In the message text:

"%1\$s" is the built-in name

**User response:** Remove the built-in or move the source to a valid architecture.

CCN8879 The built-in function "%1\$s" requires option "%2\$s".

Explanation: The built-in function depends on the option being set.

In the message text:

"%1\$s" is the built-in name, "%2\$s" is the required option.

User response: Set the required option or remove the built-in.

The built-in function "%1\$s" takes CCN8880 "%2\$s" arguments.

**Explanation:** The wrong number of arguments have been supplied to the built-in function.

In the message text:

"%1\$s" is the built-in name, "%2\$s" is the number of arguments.

**User response:** Correct the arguments to the built-in function call.

**CCN8881** The built-in function "%1\$s"'s argument "%2\$s" must be "%3\$s".

Explanation: A wrong argument type has been supplied to the built-in function.

In the message text:

"%1\$s" is the built-in name, "%2\$s" is the parameter number, and "%3\$s" is the required type.

**User response:** Correct the type of the argument on the built-in function call.

CCN8882 The built-in function "%1\$s"'s argument "%2\$s" must be in the range "%3\$s".

**Explanation:** An argument to the built-in function is out of the allowed range.

In the message text:

"%1\$s" is the built-in name, "%2\$s" is the parameter number, and "%3\$s" is the valid range.

**User response:** Correct the value of the built-in argument to be in the allowable range.

**CCN8883** Inline function "%1\$s" given attribute noinline.

**Explanation:** The function is given noinline attribute because noinline has higher precedence.

In the message text:

"%1\$s" is the function name.

**User response:** Remove one of the conflicting attributes.

CCN8884 A temporary object reachable during exception unwinding may not have been

Explanation: The logical operation may skip the temporary object construction, which may be destructed later if an exception is thrown from the same expression.

**User response:** Use -qeh=v6 option.

CCN8885 The alignment of "%1\$s" exceeds the maximum supported value of "%2\$s". The alignment has been limited to "%2\$s".

**Explanation:** An alignment value exceeded the maximum supported value. The alignment may be ignored.

In the message text:

"%1\$s" is the variable name. "%2\$s" is the maximum supported value for alignment.

**User response:** Use an alignment less than or equal to the maximum.

**CCN8887** A flexible array member is not permitted in this scope.

**Explanation:** A flexible array member is only allowed in the member scope of a class or struct.

**User response:** Remove the flexible array member.

**CCN8888** An array of aggregates that contain a flexible array member is not allowed.

Explanation: A flexible array is not permitted when the enclosing struct is used as an array element type.

User response: Remove the flexible array member or remove the array declaration.

**CCN8889** The pragma is in an invalid source location within another statement.

**Explanation:** This pragma causes a pragma statement to be generated but is located within another statement.

User response: Move the pragma before the parent

statement or to within a set of braces "{" "}" following the parent statement to clarify its location.

CCN8890 The argument "%1\$s" of the built-in function "%2\$s" is invalid.

**Explanation:** The built-in function accepts only one of the predefined strings. See the documentation for this built-in function for valid arguments.

In the message text:

"%1\$s" is the argument passed to the built-in function, "%2\$s" is the built-in function name.

**User response:** Change the argument to one of the predefined strings.

### CCN8891 The array member "%1\$s" may only be followed by members of consistent type.

**Explanation:** A zero extent array or flexible array member may only be followed by members of the same type within a struct nest.

In the message text:

"%1\$s" is the array member.

**User response:** Remove "%1\$s" or modify the members that follow it so they are of the same type as "%1\$s".

### CCN8892 A variably modified type may not be thrown.

**Explanation:** Exception handling for variable length arrays is not defined.

**User response:** Change the thrown object type.

### CCN8893 A catch handler may not catch a variably modified type.

**Explanation:** Exception handling for variable length arrays is not defined.

**User response:** Catch an appropriate pointer type instead.

### CCN8894 The use of C99 variable length arrays in C++ is not portable.

**Explanation:** Variable length arrays are not defined in the C++ language.

**User response:** Use dynamically allocated arrays through library routines such as alloca or malloc.

### CCN8895 A size of operator cannot be applied to a variable length array of unknown size.

**Explanation:** The result of a size of operator on a variable length array of unknown size is not known.

**User response:** Remove the call to size of.

### CCN8896 A variable length array may not have linkage.

**Explanation:** A variable length array must be an automatic variable.

**User response:** Remove the static or extern storage class specifier.

### CCN8897 A typeid expression of a variably modified type is not permitted.

**Explanation:** A typeid expression of variably modified type is not defined in the C++ language.

**User response:** Remove the typeid operation or change the expression.

# CCN8898 Functions with parameters of variably modified type must have extern "C" linkage.

**Explanation:** Function overload resolution with functions having variable length array parameters is not defined in C++.

**User response:** Add the extern "C" linkage specification to the function.

### CCN8899 A string literal is required for the format string.

**Explanation:** The specified format string is not a string literal.

**User response:** Make sure that correct argument types are specified for the format string.

### CCN8900 Section "%1\$s" is already specified as a "%2\$s" section.

**Explanation:** The user section has already been specified as being another type of section. Data sections and text sections must have distinct names.

In the message text:

"%1\$s" is the section name and "%2\$s" is "text" or "data".

**User response:** Remove one of the declarations for the section.

### CCN8901 A missing break statement allows fall-through to this case.

**Explanation:** A potential fall-through to this case exists as a result of a missing break statement.

**User response:** Make sure that the fall-through is intentional or add a break statement.

#### CCN8902 • CCN8911

CCN8902

The function "%1\$s" is declared using a type with no linkage.

**Explanation:** A function may not be declared in terms of something that has no scope linkage.

In the message text:

"%1\$s" is the parameter name.

**User response:** Correct the offending function parameter or return type so that it has linkage or remove it from the function declaration.

#### CCN8903

A variable length array may not be specified in an OpenMP "%1\$s" clause.

**Explanation:** Variable length arrays are not currently supported with OpenMP.

In the message text:

"%1\$s" is an OpenMP clause.

User response: Remove the variable length array from the OpenMP clause variable list.

#### CCN8904

Non-static initialization of a flexible array member is not permitted.

**Explanation:** A flexible array member may not be initialized in this scope.

**User response:** Remove the initializers for the flexible array member.

#### CCN8905

The asm statement is not portable.

**Explanation:** The meaning of an asm statement is implementation-defined.

**User response:** Remove the asm statement.

#### CCN8906

The \_align specifier cannot be used to reduce the alignment of an aggregate or a variable.

**Explanation:** One cannot use \_\_align to restrict the alignment of a variable or an aggregate more than its natural alignment.

User response: Remove the \_\_align specifier or change the specified value.

#### CCN8907

The subscript %1\$s is out of range. The valid range is 0 to %2\$s.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

"%1\$s" is the index into the array "%2\$s" is the max

**User response:** Change the index so it falls within the

bounds of the array or increase the size of the array. This message is usually generated when the user tries to index the array with the size of the array and forgets to subtract one.

#### **CCN8908**

The subscript %1\$s is less than zero. The subscript of an array should be greater than or equal to zero.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

"%1\$s" is the index into the array

**User response:** Change the index so it falls within the bounds of the array.

#### CCN8909

The subscript %1\$s is out of range. The only valid subscript is 0.

**Explanation:** The user attempted to index an array with a value that is not within the bounds of the array.

In the message text:

"%1\$s" is the index into the array

**User response:** Change the index so it falls within the bounds of the array or increase the size of the array. This message is usually generated when the user tries to index the array with the size of the array and forgets to subtract one.

#### CCN8910

The template "%1\$s" uses a file organization for tempinc, but tempinc is not being used.

**Explanation:** The compiler determined that the implementation of the template is contained in a separate file. The compiler can handle this automatic instantiation if tempinc is enabled. An alternative is to use template registry. Please consult the documentation on tempine and template registry for the best solution.

In the message text:

"%1\$s" is the name of the template

**User response:** Enable the tempinc option or organize the source files to use template registry.

#### CCN8911

Variable "%1\$s" must be private in the enclosing context.

**Explanation:** Variable listed in the copyprivate clause must be private in the enclosing context.

In the message text:

"%1\$s" is the variable name.

**User response:** Check the scope of the variable in the copyprivate clause.

### CCN8913 Template specialization "%1\$s" must match the formal definition.

**Explanation:** The definition of a specialization does not match the formal template.

In the message text:

"%1\$s" is the name of the specialization.

**User response:** Ensure that the declaration of the specialization matches the formal template.

### CCN8914 A decimal floating-point type may not be thrown.

**Explanation:** Exception handling for decimal floating-point types is not supported.

**User response:** Change the thrown object type to a supported type.

### CCN8915 A catch handler may not catch a decimal floating-point type.

**Explanation:** Exception handling for a decimal floating-point type is not supported.

**User response:** Change the catch object type to a supported type.

### CCN8916 "pragma %1\$s" conflicts with option "%2\$s". The pragma is ignored.

**Explanation:** The specified pragma cannot be used under the specified option. The pragma is ignored.

In the message text:

"%1\$s" is the pragma name. "%2\$s" is the option value.

**User response:** Verify the option values, and either remove or modify it.

#### CCN8917

Specified register name "%1\$s" can only be used to declare a variable with register storage class.

**Explanation:** A declaration may not be mapped to a register name.

In the message text:

"%1\$s" is the mapped name.

**User response:** Use a different mapped name.

### CCN8918 An OpenMP 'for' construct may only have one binding 'ordered' construct.

**Explanation:** An iteration of a loop with a 'for' construct must not execute more than one 'ordered' directive.

**User response:** Remove the extra 'ordered' construct.

# CCN8922 The argument of a "%1\$s" clause must be a positive constant integer expression.

**Explanation:** The value of the expression must be a constant value greater than zero.

In the message text:

"%1\$s" is the omp clause name.

**User response:** Change the argument of the clause to a positive constant integer expression.

#### CCN8923

The value of the expression in the "collapse" clause must not be greater than the number of nested "for" loops enclosed by the "parallel for" directive.

**Explanation:** The value of the expression must not exceed the number of nested "for" loops enclosed by the "parallel for" directive.

**User response:** Change the argument of the clause to a positive constant integer expression that does not exceed the number of nested "for" loops enclosed by the "parallel for" directive.

### CCN8924 Cannot pass an argument of non-POD class type "%1\$s" through ellipsis.

**Explanation:** The value of the expression must be a constant value greater than zero.

In the message text:

"%1\$s" is a class type.

**User response:** Check to see if the non-POD class was the intended argument and if so use a parameter to pass the argument with non-POD class type.

#### CCN8925

The inner loop bounds and stride must not depend on the outer loop control variable "%1\$s" within a construct with a "collapse" clause.

**Explanation:** The loop boundaries must be free from dependencies on the outer loop control variables in order for the loop to be collapsed.

In the message text:

"%1\$s" is the declaration with the dependency.

**User response:** Change the structure of the for loops to a rectangular form, which is free from dependencies.

### CCN8926 Branching out of a collapsed loop is not allowed.

**Explanation:** The collapsed loop must not have any loop control flow statements.

**User response:** Remove the loop control flow statements.

#### CCN8927 • CCN8939

CCN8927

The "unroll" pragma cannot be used with a construct containing the "collapse" clause.

**Explanation:** The pragma unroll and collapse clause are incompatible.

**User response:** Remove either the pragma unroll or the collapse clause.

CCN8928

Integral constant "%1\$s" has implied type unsigned long int under the non-C++0x language levels. It has implied type long long int under C++0x.

**Explanation:** Note that the type of constant may affect the evaluation of the expression.

In the message text:

%1\$s is an integer constant.

**User response:** Add explicit suffix to the constant if necessary.

CCN8931

The scheduling type "%1\$s" is not supported. "static" is assumed.

**Explanation:** An unsupported scheduling has been specified with the OMP schedule directive.

In the message text:

"%1\$s" is the user specified schedule type.

**User response:** Specify one of the supported scheduling types.

CCN8932

"%1\$s" has no parameter packs that can be expanded.

Explanation: A pack expansion is not permitted.

In the message text:

"%1\$s" is name of the invalid pack expansion.

**User response:** Remove the ellipsis.

CCN8933

A template parameter pack must be the last template parameter in this context.

**Explanation:** Only argument deduction is able to instantiate a parmameter pack that is not in the last position.

**User response:** Move the parameter pack to the end of the list of parameters.

CCN8934

Template parameter pack "%1\$s" is not expanded. All template parameter packs must be expanded in this context.

**Explanation:** Parameter pack "%1\$s" must be expanded.

In the message text:

"%1\$s" is the name of the unexpanded pack.

**User response:** Expand the template parameter pack using an ellipsis.

CCN8935

A C++0x feature is being used. Use the extended0x langlvl or langlvl "%1\$s" to enable this feature.

**Explanation:** The language level option must allow either C++0x or the specific C++0x feature.

In the message text:

"%1\$s" is the language option to enable this C++0x feature.

**User response:** Use the extended0x language level or the specific language level for this C++0x feature.

CCN8936

Function "%1\$s" should have static linkage.

**Explanation:** When the weakref function attribute is attached to the function "%1\$s", the function should have static linkage.

In the message text:

"%1\$s" is the function's name.

**User response:** Add static keyword to the function.

CCN8937

Mismatched pack lengths while expanding pack for "%1\$s".

**Explanation:** The pack expansion failed because the packs have different lengths.

In the message text:

"%1\$s" is the name of a pack expansion.

**User response:** In this pack expansion, packs must be the same length.

CCN8938

The operand of sizeof... must name a parameter pack.

**Explanation:** Sizeof... is only valid when called with an expression that names a parameter pack.

**User response:** Specify an expression that names a parameter pack.

CCN8939

A pack expansion is not allowed in this context.

**Explanation:** Template and function parameter packs can only be expanded in certain contexts.

**User response:** Avoid the expansion of a parameter pack in this context.

CCN8940

A template parameter pack cannot be a template template parameter, this has not been implemented.

**Explanation:** Variadic template template parameters have not been implemented in this release.

**User response:** Avoid using template template parameter packs.

#### CCN8941

A template parameter pack must not have a default argument.

**Explanation:** Default arguments cannot be specified for template parameter packs.

**User response:** Remove the default argument from the template parameter pack.

#### CCN8942

A template parameter pack or expansion is not permitted in this context.

**Explanation:** A variadic template parameter cannot be used here.

**User response:** Remove the parameter pack.

#### CCN8943

Integral constant "%1\$s" has implied type unsigned long long or is not allowed with "%2\$s" under C++0x. Its implied type is not unsigned long long under non-C++0x language levels.

**Explanation:** Note that the type of constant may affect the evaluation of the expression.

In the message text:

%1\$s is an integer constant. %2\$s is an langlvl suboption.

**User response:** Add explicit suffix to the constant if necessary.

#### CCN8947

The function "%1\$s" has a previous declaration with different top-level cv-qualifiers, which may cause link errors when used in another compilation unit under the option "%2\$s".

**Explanation:** Differences in top-level cv-qualifiers in function arguments are significant under older name mangling schemes.

In the message text:

"%1\$s" is a the function declaration. "%2\$s" is a compiler option that includes top-level cv-qualifiers of function arguments in the function linkage signature.

**User response:** Adjust the top-level cv-qualifiers of arguments in the previous function declaration to match the current function declaration.

#### CCN8952

The attribute "%1\$s" requires "%2\$s" on function "%3\$s"; the attribute is ignored.

**Explanation:** The attribute "%1\$s" is invalid without "%2\$s".

In the message text:

"%1\$s" is an attribute name, "%2\$s" is a keyword, "%3\$s" is a function name.

**User response:** Add "%2\$s" to allow attribute "%1\$s" or remove attribute "%1\$s".

#### CCN8953

"%3\$s" redeclared "%2\$s" without "%1\$s" attribute.

**Explanation:** The attribute "%1\$s" is required when using "%2\$s" if there are any other declaration that uses both.

In the message text:

"%1\$s" is an attribute name, "%2\$s" is a keyword, "%3\$s" is a function name.

**User response:** Add attribute "%1\$s" to allow "%2\$s" or remove "%2\$s".

#### CCN8954

The attribute "malloc" is not valid on function "%1\$s" since it has a return type other than a pointer or C++ reference. The attribute is ignored.

**Explanation:** Functions declared with the "malloc" attribute need to have a pointer or reference return type.

In the message text:

"%1\$s" is a function name.

**User response:** Change the return type or remove the "malloc" attribute.

#### CCN8955

SUGGESTION: Try using "%1\$s". It looks like you are trying to use the associated C++0x feature.

**Explanation:** The language level option must allow the specific C++0x feature.

In the message text:

"%1\$s" is a fine grain C++0x feature option to enable the C++0x feature.

**User response:** Use the specific C++0x feature option.

#### CCN8958

C++0x will reserve "%1\$s" as a keyword whose C++0x feature can be enabled by "%2\$s".

**Explanation:** The user should avoid using C++0x specific keyword as normal identifiers in non-C++0x mode.

#### CCN8959 • CCN8968

In the message text:

"%1\$s" is a C++0x keyword that is not reserved in non-C++0x level, %2\$s is the corresponding fine grain C++0x feature option to enable the C++0x feature.

**User response:** Use non-C++0x keyword or specify -qnokeeyword option.

#### CCN8959

The right side "%1\$s" of the assignment expression of the OMP Atomic Read construct should be a lvalue.

Explanation: To perform an atomic read, the source should be a lvalue expression, which represent a valid memory location where the data to be read resides.

In the message text:

"%1\$s" is the right side of the assignment expression under the OMP Atomic Read construct.

**User response:** Change the right side to a scalar lvalue expression, such as a simple variable, array element, reference, etc.

#### **CCN8960**

Expected two statements in the structured block of the OMP Atomic Capture construct.

**Explanation:** Expected two statements in the structured block of the OMP Atomic Capture construct.

**User response:** Create appropriate number and type of statements in the structured block of the OMP Atomic Capture construct.

#### CCN8961

The function "%1\$s" cannot be defined in the current scope.

**Explanation:** The current scope is not one in which the function can be defined.

In the message text:

"%1\$s" is the function name.

User response: Move the function definition to the correct scope.

#### CCN8962

The variable "%1\$s" cannot be defined in the current scope.

**Explanation:** The current scope is not one in which the variable can be defined.

In the message text:

"%1\$s" is the variable name.

User response: Move the variable definition to the correct scope.

#### CCN8963

The member "%1\$s" does not match any member declared in its containing class.

**Explanation:** The member that is being defined outside of a class is not declared in the class.

In the message text:

"%1\$s" is the member.

**User response:** Declare the variable or function as a member of the class.

#### CCN8964

Candidate member in the containing class: "%1\$s".

Explanation: The member that is being defined outside of a class does not match any candidate member in the class.

In the message text:

"%1\$s" is the candidate member.

User response: The member defined must match the declaration in the corresponding class.

#### **CCN8966**

The name mangling schema for expression of decltype used as function return type is not implemented on the current product.

**Explanation:** Avoid using expression of decltype used as function return type.

**User response:** See the primary message.

#### **CCN8967**

The two occurrences of expression "x" are different: "%1\$s" vs "%2\$s".

**Explanation:** The two occurrences of expression "x" are different.

In the message text:

The two occurrences are "%1\$s" and "%2\$s".

User response: Check the statement block and use same expression for both occurrences, or two expressions that evaluate to the same memory location.

#### CCN8968

The parameter type "%1\$s" for constexpr function or constructor "%2\$s" is not a literal type

**Explanation:** Each parameter type for a constexpr function or constructor shall be a literal types

In the message text:

"%1\$s" is the name of the parameter type in error, "%2\$s" is the name of the function or constructor

User response: Remove constexpr specifier from the function or constructor declaration

CCN8969 The return type "%1\$s" for constexpr function "%2\$s" is not a literal type

**Explanation:** Return type for a constexpr function shall be a literal types

In the message text:

"%1\$s" is the name of the return type in error, "%2\$s" is the name of the function

**User response:** Remove constexpr specifier from the function declaration

CCN8970 A constexpr function "%1\$s" shall not be declared virtual

**Explanation:** A virtual function cannot be declared constexpr

In the message text:

"%1\$s" is the name of the function in error

**User response:** Remove virtual specifier from the function declaration

CCN8971 Invalid statement is found in the body of constexpr function or constructor "%1\$s"

**Explanation:** Not all statements are allowed in the body of a constexpr function or constructor

In the message text:

"%1\$s" is the name of the function in error

**User response:** Check the function body and remove the statement not allowed

CCN8972 Function try block can not be used for a constexpr constructor "%1\$s"

**Explanation:** The Body for constexpr constructor cannot be a function try block

In the message text:

"%1\$s" is the name of the constructor in error

**User response:** Make the body a simple compound statement

CCN8973 The function body for constexpr constructor "%1\$s" is not empty

**Explanation:** A constexpr constructor shall have empty function body

In the message text:

"%1\$s" is the name of the constructor in error

**User response:** Make the function body empty

CCN8974 Type "%1\$s" for constexpr variable or static data member "%2\$s" is not a

literal type

**Explanation:** A constexpr variable or static data member shall have literal type

In the message text:

"%1\$s" is the type name in error, "%2\$s" is the name of the variable or static data member

User response: Remove the constexpr specifier

CCN8975 Class type "%1\$s" contains constexpr functions but is not a literal class

**Explanation:** A class type of which constexpr function is a member shall be a literal class

In the message text:

"%1\$s" is the class type in error

**User response:** Remove constexpr member function declaration or make the class type a literal class

CCN8976 The "constexpr" specifier cannot be applied to non-static data member "%1\$s"

**Explanation:** Specifier constexpr can only be used for variable or static data member

In the message text:

"%1\$s" is the non-static data member in error

User response: Remove the constexpr specifier

CCN8977 The non-static data member "%1\$s" is not initialized by constexpr constructor "%2\$s"

**Explanation:** A constexpr constructor shall initialize every non-static data member

In the message text:

"%1\$s" is the name of the data member, "%2\$s" is the name of the constructor in error

**User response:** Add the data member to the constexpr constructor's initialization list

CCN8978 The variable "%1\$s" should not be referenced by the expression "%2\$s".

**Explanation:** The expression in the OMP atomic construct should not reference "%1\$s".

In the message text:

"%1\$s" is the atomic variable that is being manipulated, "%2\$s" is a scalar expression that references the atomic variable.

#### CCN8979 • CCN8987

**User response:** Fix the expression so that it does not reference or access "%1\$s".

CCN8979

Constructor "%1\$s" called from the member initializer list of constexpr contructor "%2\$s" is not constexpr

**Explanation:** Every constructor invovled in initializing non-static data member and base class sub-object shall be a constexpr constructor

In the message text:

"%1\$s" is the name of the constructor called, "%2\$s" is the name of the constexpr constructor in error

**User response:** Use a different constructor or make the called constructor constexpr

CCN8980

Sub-object of base class "%1\$s" is not initialized by constexpr constructor

**Explanation:** A constexpr constructor shall initialize every base class sub-object

In the message text:

"%1\$s" is the name of the base class, "%2\$s" is the name of the constructor in error

**User response:** Add explicit initializer for the base class sub-object

CCN8981

The "omp for" pragma must be followed with one or more associated for-loops.

**Explanation:** The "omp for" pragma must contain at least one for-loop.

**User response:** Add for-loop(s) after the pragma statement.

**CCN8984** 

Cannot take the address of a built-in function.

**Explanation:** The built-in function "%1\$s" cannot have its address taken.

In the message text:

"%1\$s" is the name of the built-in function being address taken.

**User response:** Remove the address operator, or override the built-in function with your own.

CCN8985

cv-qualifiers must not be added to function type.

**Explanation:** The const and volatile qualifiers cannot added by the compiler when forming a function type.

**User response:** Remove the const or volatile specifiers.

CCN8986

The use of decimal floating-point is invalid for architecture level "%1\$s".

**Explanation:** The effective architecture value specified on either #pragma arch\_section or a compiler option does not support decimal floating-point.

In the message text:

"%1\$s" is the architecture level specified on #pragma arch\_section or a target architecture option.

**User response:** Use architecture value 7 and above, or remove the use of decimal floating-point.

CCN8987

%1\$s is disabled under option %2\$s. Use %3\$s instead.

**Explanation:** %1\$s is disabled under option %2\$s. Use %3\$s instead.

**User response:** Use the suggested option value instead.

#### **Note**

The following error messages may be produced by the compiler if the message file is itself invalid.

**SEVERE ERROR EDC0090**: Unable to open message file &1.

**SEVERE ERROR EDC0091:** Invalid offset table in message file &1.

**SEVERE ERROR EDC0092:** Message component &1s not found.

SEVERE ERROR EDC0093: Message file &1 corrupted.

SEVERE ERROR EDC0094: Integrity check failure on msg &1

SEVERE ERROR EDC0095: Bad substitution number in message &1

SEVERE ERROR EDC0096: Virtual storage exceeded

**ERROR:** Failed to open message file. Reason &1.

**ERROR:** Unable to read message file. Reason &1.

**ERROR:** Invalid offset table in message file &1.

**ERROR:** Message component &1s not found.

**ERROR:** Message file &1 corrupted.

**ERROR:** Integrity check failure on msg &1 — retrieved &2.

**ERROR:** Message retrieval disabled. Cannot retrieve &1.

**INTERNAL ERROR:** Bad substitution number in message &1.

The previous messages are only generated in English.

# Chapter 3. Utility messages

This topic contains information about the DSECT, CXXFILT, and CDAHLASM utility messages, and should not be used as programming interface information. For the localedef, iconv, and genxlt utility messages, refer to the *z/OS Language Environment Debugging Guide*. For the as and dbgld utility messages, refer to the *z/OS UNIX System Services Messages and Codes*.

# Other return codes and messages

See the *z/OS Language Environment Debugging Guide* for messages and return codes for the following:

- prelinker and object library utility
- · runtime messages and return codes
- · localedef utility
- genxlt utility
- · iconv utility
- System Programmer C (SPC)

### **DSECT utility messages**

The following section describes return codes and messages that are issued by the DSECT utility.

#### Return codes

The DSECT utility issues the following return codes:

Table 4. Return codes from the DSECT utility

Return Code	Meaning
0	Successful completion.
4	Successful completion, warnings issued.
8	DSECT utility failed, error messages issued.
12	DSECT utility failed, severe error messages issued.
16	DSECT utility failed, insufficient storage to continue processing.

# **Messages**

The messages that the DSECT utility issues have the following format:

#### **EDCnnns text** <*&s*> where:

nnnn	error message number
S	error severity
00	informational message
10	warning message
30	error message
40	severe error message

#### &s substitution variable

The DSECT utility issues the following messages:

#### EDC5500 10 Option %s is not valid and is ignored.

**Explanation:** The option specified in the message is not a valid DSECT Utility option or a valid option has been specified with an invalid value. The specified option is ignored.

**User response:** Rerun the DSECT Utility with the correct option.

# EDC5501 30 No DSECT or CSECT names were found in the SYSADATA file.

**Explanation:** The SECT option was not specified or SECT(ALL) was specified. The SYSADATA was searched for all DSECTs and CSECTs but no DSECTs or CSECTs were found.

**User response:** Rerun the DSECT Utility with a SYSADATA file that contains the required DSECT or CSECT definition.

# EDC5502 30 Sub option %s for option %s is too long.

**Explanation:** The sub option specified for the option was too long and is ignored.

# EDC5503 30 Section name %s was not found in SYSADATA File.

**Explanation:** The section name specified with the SECT option was not found in the External Symbol records in the SYSADATA file. The C structure is not produced.

**User response:** Rerun the DSECT Utility with a SYSADATA file that contains the required DSECT or CSECT definition.

# EDC5504 30 Section name %s is not a DSECT or CSECT.

**Explanation:** The section name specified with the SECT option is not a DSECT or CSECT. Only a DSECT or CSECT names may be specified. The C structure is not produced.

# EDC5505 00 No fields were found for section %s, structure is not produced.

**Explanation:** No field records were found in the SYSADATA file that matched the ESDID of the specified section name. The C structure is not produced.

# EDC5506 30 Record length for file "%s" is too small for the SEQUENCE option, option ignored.

**Explanation:** The record length for the output file specified is too small to enable the SEQUENCE option to generate the sequence number in columns 73 to 80. The available record length must be greater than or equal to 80 characters. The SEQUENCE option is ignored.

# EDC5507 40 Insufficient storage to continue processing.

**Explanation:** No further storage was available to continue processing.

**User response:** Rerun the DSECT Utility with a larger region  $(MVS^{TM})$ .

#### EDC5508 30 Open failed for file "%s": %s

**Explanation:** This message is issued if the open fails for any file required by the DSECT Utility. The file name passed to fopen() and the error message returned by strerror(errno) is included in the message.

**User response:** The message text indicates the cause of the error. If the file name was specified incorrectly on the OUTPUT option, rerun the DSECT Utility with the correct file name.

#### EDC5509 40 %s failed for file "%s": %s

**Explanation:** This message is issued if any error occurs reading, writing or positioning on any file by the DSECT Utility. The name of the function that failed (Read, Write, fgetpos, fsetpos), file name and text from strerror(errno) is included in the message.

**User response:** This message may be issued if an error occurs reading or writing to a file. This may be caused by an error within the file, such as an I/O error or insufficient disk space. Correct the error and rerun the DSECT Utility.

#### EDC5510 40 Internal Logic error in function %s

**Explanation:** The DSECT Utility has detected that an error has occurred while generating the C structure. Processing is terminated and the C structure is not produced.

**User response:** This may be caused by an error in the DSECT Utility or by incorrect input in the SYSADATA file. Contact your system administrator.

# EDC5511 10 No matching right parenthesis for %s option.

**Explanation:** The option specified had a sub option beginning with a left parenthesis but no right parenthesis was present.

**User response:** Rerun the DSECT Utility with the parenthesis for the option correctly paired.

#### EDC5512 10 No matching quote for %s option.

**Explanation:** The OUTPUT option has a sub option beginning with a single quote but no matching quote was found.

**User response:** Rerun the DSECT Utility with the quotes for the option correctly paired.

#### EDC5513 10 Record length too small for file "%s".

**Explanation:** The record length for the Output file specified is less than 10 characters in length. The minimum available record length must be at least 10 characters.

**User response:** Rerun the DSECT Utility with an output file with a available record length of at least 10 characters.

# EDC5514 30 Too many suboptions were specified for option %s.

**Explanation:** More than the maximum number of suboptions were specified for the particular option. The extra suboptions are ignored.

**User response:** Check the syntax of the DSECT utility option in the C/C++ User's Guide, and remove the extra suboption(s).

# EDC5515 00 HDRSKIP option value greater than length for section %s, structure is not produced.

**Explanation:** The value specified for the HDRSKIP option was greater than the length of the section. A structure was not produced for the specified section.

**User response:** Rerun the DSECT Utility with a smaller value for the HDRSKIP option.

#### EDC5516 10 SECT and OPTFILE options are mutually exclusive, OPTFILE option is ignored

**Explanation:** Both the SECT and OPTFILE options were specified, but the options are mutually exclusive.

**User response:** Rerun the DSECT Utility with either the SECT or OPTFILE option.

# EDC5517 10 Line %i from "%s" does not begin with SECT option

**Explanation:** The line from the file specified on the OPTFILE option did not begin with the SECT option. The line was ignored.

**User response:** Rerun the DSECT Utility without OPTFILE option, or correct the line in the input file.

#### EDC5518 10 setlocale() failed for locale name "%s".

**Explanation:** The setlocale() function failed with the locale name specified on the LOCALE option. The LOCALE option was ignored.

**User response:** Rerun the DSECT Utility without LOCALE option, or correct the locale name specified with the LOCALE option.

# EDC5519 10 Long names were detected and truncated. Check output.

**Explanation:** The dsect utility detected at least one name whose length exceeds the maximum allowed, and has truncated the name, and appended "..." to the end of the name to signify the condition. If the input name is within limits, and the UNIQUE option is specified, the mapping of national characters in the input name could have extended the name length beyond the maximum allowed.

**User response:** Check the dsect utility output. Long names are truncated and this is indicated by "..." at the end of the name. Modify the UNIQUE option field if applicable, or modify the input name so that it does not exceed the maximum length when expanded.

# EDC5520 40 Architecture Level %i of SYSADATA is not supported. The latest supported level is %d

**Explanation:** The SYSADATA file has probably been produced by a recent HLASM release which is not yet supported by the DSECT utility.

**User response:** Contact your IBM representative.

# EDC5521 40 Architecture Level %i of SYSADATA is not supported. The earliest supported level is %d

**Explanation:** The SYSADATA file has probably been produced by an obsolete HLASM release.

**User response:** Use a supported HLASM release to produce the SYSADATA file.

EDC5522 10 Edition %d, SYSADATA level %d of

record type X"%04x" - %s - is not supported. Edition %d is assumed.

**Explanation:** The likely reason is that HLASM maintenance has introduced an updated layout of this record type. This should not cause a problem unless the

offsets of fixed fields processed by the DSECT utility have changed. The message can be ignored unless the produced output is incorrect.

**User response:** If the DSECT utility is producing incorrect output, then please contact your IBM representative.

# **CXXFILT** utility messages

The following section describes return codes and messages that are issued by the CXXFILT utility.

### Return codes

The CXXFILT utility issues the following return codes:

Table 5. Return codes from the CXXFILT utility

Return Code	Meaning
0	Processing successful: CXXFILT processing completed successfully.
4	A warning was issued and a result was generated.
8	CXXFILT utility failed, possibly due to a read error.
16	CXXFILT utility failed.

### **Messages**

The CXXFILT utility issues the following messages:

CCN9500	Cannot open the following file: @1
	ignored.

**Explanation:** The specified file cannot be opened for reading or does not exist.

**User response:** Ensure that the file exists and is readable.

#### CCN9501 Cannot continue reading input.

**Explanation:** A read error occurred while reading the input stream.

**User response:** Ensure that the input stream is still available and try again.

#### CCN9502 No options specified after (.

**Explanation:** A ( indicating start of options was encountered but no options followed.

**User response:** Ensure that the input stream is still available and try again.

# CCN9503 An invalid option (@1) was specified -- ignored.

Explanation: An invalid option was specified.

**User response:** Refer to the z/OS or OS/390 C/C++ User's Guide under cxxfilt for valid options.

# CCN9504 Option (@1) was specified with too few suboptions. @2 suboption(s) required --

ignored.

**Explanation:** Not all the required suboptions were supplied.

**User response:** Refer to the z/OS or OS/390 C/C++ User's Guide under cxxfilt for the number of required suboptions.

# CCN9505 Option (@1) was specified with too many suboptions. @2 suboption(s) required -- ignored.

**Explanation:** More suboptions were supplied than what is allowed by this option.

**User response:** Refer to the z/OS or OS/390 C/C++ User's Guide under cxxfilt for the number of required suboptions.

# CCN9506 Option (@1) requires a positive suboption -- ignored.

**Explanation:** This error occurred because the specified suboptions for this option are invalid. Only positive suboptions are allowed.

**User response:** Refer to the z/OS or OS/390 C/C++ User's Guide under cxxfilt for the allowed suboptions.

CCN9507 Internal Error. Contact your Service

Representative.

**Explanation:** The cxxfilt utility has malfunctioned.

**User response:** Please report this problem.

CCN9508 No negative form for option @1 --

ignored.

Explanation: The specified option does not have a

negative form.

**User response:** Refer to the z/OS or OS/390 C/C++ User's Guide under cxxfilt for valid options.

CCN9509 An incomplete option (@1) has been

specified. -- ignored

**Explanation:** The specified option is incomplete.

**User response:** Refer to the z/OS or OS/390 C/C++ User's Guide under cxxfilt for valid options.

# **CDAHLASM** utility messages

The following section describes return codes and messages that are issued by the CDAHLASM utility.

#### **Return codes**

The CDAHLASM utility issues the following return codes:

Table 6. Return codes from the CDAHLASM utility

Return Code	Meaning
0	Assembled successfully.
2	Assembled with a notice.
4	Assembled with a warning.
16	Error assembling or CDAHLASM error.

### Messages

The CDAHLASM utility issues the following messages:

CDA3401 The assemble step ended with rc =

**Explanation:** Assemble step completed with a non-zero return code.

In the message text:

number is the return code from the assemble step.

**User response:** This does not necessarily mean that you need to take action. If necessary, correct the error indicated by the preceding messages, and rerun the CDAHLASM utility.

CDA3402 Exactly one source file must be specified.

**Explanation:** The CDAHLASM utility requires that you specify exactly one source file. The source file must be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

**User response:** Rerun the CDAHLASM utility and specify exactly one source file.

CDA3403 The PDS string cannot be assembled. Specify a PDS member instead.

**Explanation:** The indicated input file is a PDS. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

**User response:** Rerun the CDAHLASM utility and specify a PDS member.

CDA3404 The PDSE string cannot be assembled. Specify a PDSE member instead.

**Explanation:** The indicated input file is a PDSE. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

#### CDA3405 • CDA3417

User response: Rerun the CDAHLASM utility and specify a PDSE member.

CDA3405 The VSAM file string cannot be assembled.

**Explanation:** The indicated input file is a VSAM file. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

User response: Rerun the CDAHLASM utility and specify a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

**CDA3406** The block special file

string cannot be assembled.

**Explanation:** The indicated input file is a block special file. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

**User response:** Rerun the CDAHLASM utility and specify a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

**CDA3407** 

The character special file string cannot be assembled.

**Explanation:** The indicated input file is a character special file. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

**User response:** Rerun the CDAHLASM utility and specify a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

**CDA3408** 

The directory string cannot be assembled. Specify a **UNIX System Services file** instead.

**Explanation:** The indicated input file is a directory. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

**User response:** Rerun the CDAHLASM utility and specify a UNIX System Services file.

**CDA3409** The socket file string cannot be assembled.

**Explanation:** The indicated input file is a socket file. The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of the input source file.

**User response:** Rerun the CDAHLASM utility and specify a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

CDA3412 The file *string1* cannot

be opened with attributes:

string2. errno: *number*, **strerror**: string3.

**Explanation:** The CDAHLASM utility requires permission to open the indicated file with the indicated permission.

In the message text:

string1 is the processing file name. string2 contains the file attributes passed into fopen(). number is the errno set by fopen(). string3 is the error message associated with errno.

User response: If the indicated file already exists on your system, rename the file and rerun the CDAHLASM utility. Review the fopen() information in the XL C/C++ Run-Time Library Reference and use the errno to determine the cause of the error.

#### **CDA3416** DD names passed to assembler:

**Explanation:** This is the message header for displaying the data definition names that are being passed to the assembler. A list of data definition names will follow this message. The message is issued when the VERBOSE option is specified for the CDAHLASM utility.

**User response:** Rerun the CDAHLASM utility without the VERBOSE option.

CDA3417 The DLL string is not found.

**Explanation:** The indicated Common Debug Architecture run-time library cannot be found.

In the message text:

string is the name of the Common Debug Architecture run-time library.

**User response:** The indicated Common Debug Architecture run-time library should be installed in the SCEERUN2 data set. Verify that the run-time library is installed properly.

#### CDA3418 The data set does not exist.

**Explanation:** This message provides the cause of the failure in data definition name allocation. Message CDA3421 provides the name of the data set.

**User response:** Make sure the data set is properly allocated.

# CDA3419 A Ddpi error has been encountered: number.

**Explanation:** An error has occured while generating DWARF 4.0 debug information.

In the message text:

*number* is the error number generated by the libddpi APIs.

**User response:** If you do not require debug information, rerun the CDAHLASM utility with the NODEBUG option. Otherwise, provide the indicated error number to the IBM service representative responsible for your installation.

# CDA3420 An error has been encountered in string.

**Explanation:** The indicated message text contains the phase where the error has occured. The known phases are:

- ESI (extraction of symbol information)
- A2D (ADATA to DWARF conversion)
- POM (production of object map)

In the message text:

string is the phase where the error has occured.

**User response:** This is an internal error. Provide the indicated error text to the IBM service representative responsible for your installation.

# CDA3421 An error has occurred when establishing the DD name for

string1. string2

**Explanation:** An error has occured while the CDAHLASM utility uses the SVC99 service to allocate the data definition name.

In the message text:

string1 is the file name. string2 is the SVC99 message.

User response: The cause of the error is indicated in

the second part of the message. If the cause of the error is still unclear, rerun the CDAHLASM utility with the VERBOSE option. Provide this information to the IBM service representative responsible for your installation.

### CDA3422 An error has occurred when

reading string1: errno: number, strerror: string2.

**Explanation:** Unable to read from the indicated file.

In the message text:

string1 is the file being fread(). number is the errno set by fread(). string2 is the error messsage associated with errno.

**User response:** This is an internal error. Rerun the CDAHLASM utility with the VERBOSE option. Provide this information to the IBM service representative responsible for your installation.

#### CDA3423 An error has occurred when

writing string1: errno:
number, strerror:
string2.

**Explanation:** Unable to write to the indicated file.

In the message text:

string1 is the file being fwrite(). number is the errno set by fwrite(). string2 is the error messsage associated with errno.

**User response:** This is an internal error. Rerun the CDAHLASM utility with the VERBOSE option. Provide this information to the IBM service representative responsible for your installation.

### CDA3424 An error has occurred:

string.

**Explanation:** This is a generic error message. Refer to the error message text for a description of the error.

In the message text:

string contains the cause of the error and the method of recovery.

**User response:** Refer to the error messsage text for information on how to recover from the error.

# CDA3425 The file *string* does not exist.

**Explanation:** The CDAHLASM utility cannot find the indicated file.

In the message text:

string is a file name.

User response: Verify that the file name specified is

correct and the proper permissions are set.

CDA3426 An incompatible DLL has been

detected.

0xhexnum1 is the

LIBDDPI\_DLL\_VERSION with which

string was compiled. 0xhexnum2 is the

LIBDDPI\_DLL\_VERSION of the DLL.

**Explanation:** The Common Debug Architecture run-time version is outdated.

In the message text:

hexnum1 is the Common Debug Architecture run time that is compiled with the CDAHLASM utility. string is one of the source file names in the CDAHLASM utility. hexnum2 is the Common Debug Architecture run time that is being used to run the CDAHLASM utility.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run time installed.

**CDA3427** An incompatible DLL has been

detected.

0xhexnum1 is the

LIBELF\_DLL\_VERSION with which

string was compiled. 0xhexnum2 is the

LIBELF\_DLL\_VERSION of the DLL.

**Explanation:** The Common Debug Architecture run-time version is outdated.

In the message text:

hexnum1 is the Common Debug Architecture run time that is compiled with the CDAHLASM utility. string is one of the source file names in the CDAHLASM utility. hexnum2 is the Common Debug Architecture run time that is being used to run the CDAHLASM utility.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run time installed.

**CDA3428** The listing file name is too long. It must not be more than

number characters.

**Explanation:** The specified listing file name is too long.

In the message text:

number is the maximum character length for the file name.

**User response:** Provide a listing file name with less than the indicated number of characters.

CDA3429 The object file name is too long. It must not be more than

number characters.

**Explanation:** The specified object file name is too long.

In the message text:

number is the maximum character length for the file

**User response:** Provide an object file name with less than the indicated number of characters.

CDA3432 Out of memory allocating number bytes for

string.

**Explanation:** The CDAHLASM utility ran out of memory trying to assemble the file. This sometimes happens with large input files.

In the message text:

number is the number of bytes CDAHLASM tries to allocate. string contains the name of the function trying to allocate the memory.

User response: Shut down any large processes that are running. You may need to specify the runtime option HEAP(,,,FREE,,) to prevent the CDAHLASM utility from running out of memory.

**CDA3433** Out of memory allocating number bytes.

**Explanation:** The CDAHLASM utility ran out of memory trying to assemble the file. This sometimes happens with large input files.

In the message text:

number is the number of bytes CDAHLASM tries to allocate.

**User response:** Shut down any large processes that are running. You may need to specify the runtime option HEAP(,,,FREE,,) to prevent the CDAHLASM utility from running out of memory.

**CDA3434** SVC99 error code 0xhexnum1. info code

0xhexnum2.

**Explanation:** This message provides the cause of the failure in data definition name allocation. Message CDA3421 provides the name of the data set.

In the message text:

hexnum1 is the SVC99 error code. hexnum2 is the SVC99 information code.

**User response:** Make sure the data set is properly allocated. If the error still persists, rerun the CDAHLASM utility with the VERBOSE option. Provide this information to the IBM service representative responsible for your installation.

**CDA3437** 

Unable to allocate string1 data set

concatenation. The first data set in error is *string2*.

**Explanation:** The CDAHLASM utility is unable to process the indicated data set.

In the message text:

*string1* is a list of concatenated data set names. *string2* is the data set that is not allocated.

**User response:** Verify that the data set exists and is properly allocated.

**CDA3438** 

Unable to load the assembler compiler.

**Explanation:** The CDAHLASM utility cannot load the assembler compiler.

**User response:** Rerun the CDAHLASM utility. If the problem persists, contact the IBM service representative responsible for your installation.

CDA3439

Unable to obtain the file information for *string*.

**Explanation:** The CDAHLASM utility requires the input source file to be a sequential data set, a PDS member, a PDSE member or a UNIX System Services file.

In the message text:

string is the name of input source file.

**User response:** Rerun the CDAHLASM utility and specify a valid file name.

CDA3440

Unable to open the debug file *string*.

**Explanation:** The indicated file cannot be opened for writing.

In the message text:

string is the name of the debug file.

**User response:** If a file with the same name already exists, give the existing file another name before you rerun the CDAHLASM utility.

CDA3441

Unable to open the listing file *string*.

**Explanation:** The indicated file cannot be opened for writing.

In the message text:

string is the name of the listing file.

**User response:** If a file with the same name already exists, make sure it is renamed to another name before you rerun the CDAHLASM utility.

CDA3442

Unable to open the object file

**Explanation:** The indicated file cannot be opened for writing.

In the message text:

string is the name of the object file.

**User response:** If a file with the same name already exists, make sure it is renamed to another name before you rerun the CDAHLASM utility.

CDA3443

Unable to open the source file string for read.

**Explanation:** The indicated file cannot be opened for reading.

In the message text:

string is the name of the input source file.

**User response:** Make sure the source file exists and has the correct read permission.

CDA3491

An invalid option *string* is specified.

**Explanation:** The indicated option is not a valid CDAHLASM option.

In the message text:

string is an invalid option.

**User response:** Rerun the CDAHLASM utility and specify a valid option.

**CDA3495** 

The debug file name is too long. It must not be more than *number* characters.

**Explanation:** The specified debug file name is too long

In the message text:

*number* is the maximum character length for the file name.

**User response:** Provide a debug file name with less than the indicated number of characters.

CDA3500

Error reading the option file *string*.

**Explanation:** The option file specified must be either a sequential data set, a PDS member, a PDSE member or

#### CDA3505 • CDA1005

a UNIX System Services file. It must also have read permission.

In the message text:

string is the name of the option file.

**User response:** Rerun the CDAHLASM utility and specify a sequential data set, a PDS member, a PDSE member or a UNIX System Services file with read permission.

CDA3505

A Ddpi error number1 has been encountered in file string at line number2.

**Explanation:** An error has occurred while generating DWARF debug information.

In the message text:

*number1* is the error number generated by the libddpi APIs. *string* is the libddpi file name where the error occurs. *number2* is the line number where the error occurs.

**User response:** If you do not require debug information, rerun the CDAHLASM utility with the NODEBUG option. Otherwise, provide the indicated error number, file name, and line number to the IBM service representative responsible for your installation.

# **CDADBGLD** utility messages

The following section describes return codes and messages that are issued by the CDADBGLD utility.

#### Return codes

The CDADBGLD utility issues the following return codes:

Table 7. Return codes from the CDADBGLD utility

Return Code	Meaning
0	Successful completion.
4	Warning.
8	Error.
12	Severe Error.

# **Messages**

The CDADBGLD utility issues the following messages:

CDA1002 An invalid option string is specified.

**Explanation:** The indicated option is not a valid CDADBGLD option.

In the message text:

string is an invalid option.

**User response:** Rerun the CDADBGLD utility and specify a valid option.

CDA1003 BINDER API failed. retcode:number1, rsncode:0xnumber2

**Explanation:** CDADBGLD is unable to retrieve information from the input module. The BINDER API has failed.

In the message text:

*number1* is the return code from BINDER API. *number2* is the reason code from BINDER API.

**User response:** This is an internal error. Provide the indicated error text to the IBM service representative responsible for your installation.

CDA1004 The file string cannot be opened.

**Explanation:** Either the input file does not exist, or the permissions for the input file or the directory containing the input file do not have read or search permission set.

In the message text:

string is the input file name.

**User response:** Ensure the input file exists and that the input file and the directories containing the input file have read and search permissions set.

CDA1005 No debug information was found in string.

**Explanation:** CDADBGLD is unable to locate any debug information within the input file. No output file will be generated.

In the message text:

string is the input file name.

User response: Compile at least one compilation unit

with the debug compiler option.

CDA1006 Out of memory allocating *number* bytes for *string*.

**Explanation:** The CDADBGLD utility ran out of memory processing the input file. This may happen with a large input file.

In the message text:

*number* is the number of bytes CDADBGLD tries to allocate. *string* contains the name of the function trying to allocate the memory.

**User response:** Shut down any large processes that are running. You may need to specify the runtime option HEAP(,,,FREE,,) to prevent the CDADBGLD utility from running out of memory.

CDA1007 INTERNAL UTILITY ERROR: Procedure string:number.

**Explanation:** An internal utility error occurred.

In the message text:

*string* is the procedure where the error has occured. *number* is the line number where the error has occurred.

**User response:** This is an internal error. Provide the indicated error text to the IBM service representative responsible for your installation.

CDA1008 The DLL string is not found.

**Explanation:** The indicated Common Debug Architecture runtime library cannot be found.

In the message text:

string is the name of the Common Debug Architecture runtime library.

**User response:** The indicated Common Debug Architecture runtime library should be installed in the SCEERUN2 data set. Verify that the runtime library is installed properly.

CDA1009 An incompatible DLL has been detected.

The utility requires LIBDDPI\_DLL\_VERSION to be at least 0xnumber1.

The version found in the system is 0xnumber2.

**Explanation:** The Common Debug Architecture runtime version is outdated.

In the message text:

*number1* is the Common Debug Architecture run time that CDADBGLD is compiled with. *number2* is the

Common Debug Architecture run time that is currently being used.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run time installed.

**CDA1010** 

An incompatible DLL has been detected.
The utility requires
LIBELF\_DLL\_VERSION to be at least 0xnumber1.
The version found in the system

is 0xnumber2.

**Explanation:** The Common Debug Architecture runtime version is outdated.

In the message text:

*number1* is the Common Debug Architecture run time that CDADBGLD is compiled with. *number2* is the Common Debug Architecture run time that is currently being used.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run time installed.

CDA1011 Cannot find the function *string1* in DLL *string2*.

**Explanation:** The indicated function cannot be found in the Common Debug Architecture runtime library.

In the message text:

*string1* is the name of the function in the Common Debug Architecture runtime library. *string2* is the name of the Common Debug Architecture runtime library.

**User response:** Contact the IBM service representative responsible for your installation and verify that you have the latest Common Debug Architecture run time installed.

CDA1012 The debug file *string* cannot be opened for reading.

**Explanation:** The file permissions for the debug file do not have read permissions set.

In the message text:

string is the debug file name.

**User response:** Ensure the debug file exists and that it has read permissions set.

#### CDA1013 • CDA1021

#### **CDA1013** The module map file string cannot be opened for writing.

**Explanation:** The file or directory permissions for the module map file do not have write permissions set.

In the message text:

string is the module map file.

**User response:** Ensure the CDADBGLD utility is being run from a directory with write permission, and the file has write permission if it already exists.

#### **CDA1014** The input file string cannot be processed due to the EDIT=NO attribute.

Explanation: CDADBGLD cannot process modules that have been bounded with the EDIT=NO option.

In the message text:

string is the file name of the input module.

User response: Specify binder option EDIT=YES when binding the module.

#### **CDA1015** The input file string cannot be processed.

**Explanation:** The BINDER API has failed while processing the input module.

In the message text:

string is the file name of the input module.

User response: Refer to the Program Management documentation for information about the BINDER API return code and reason code.

#### The object file produced from string **CDA1016** contains ISD debug information.

**Explanation:** The CDADBGLD utility is converting ISD debug information into DWARF debug information. This process may degrade the performance of the CDADBGLD utility.

In the message text:

string is the source file name.

**User response:** To increase the performance of the CDADBGLD utility, please recompile the specified source file with the -g compiler option, rebind your application, and then rerun the CDADBGLD utility.

#### **CDA1017** The debug side file string is outdated.

Explanation: The MD5 signature within the specified debug side file does not match the MD5 signature within the input module.

In the message text:

string is the debug side file name.

**User response:** Recompile the corresponding source file, rebind your application, and then rerun the CDADBGLD utility.

#### **CDA1018** An error has occurred while processing the ISD debug information for string.

**Explanation:** The CDADBGLD utility is unable to convert the ISD debug information into DWARF debug information.

In the message text:

string is the source file name.

User response: Recompile the specified source file with the -g compiler option, rebind your application, and then rerun the CDADBGLD utility. If this is not a viable option, please contact the IBM service representative responsible for your installation.

#### **CDA1019** An error has occurred while processing the DWARF debug information for string.

**Explanation:** The CDADBGLD utility is unable to process the DWARF debug information in the specified debug side file.

In the message text:

string is the debug side file name.

**User response:** This is an internal error. Provide the indicated error text to the IBM service representative responsible for your installation.

#### **CDA1020** The source file string cannot be opened for reading.

**Explanation:** Either the source file does not exist, or the file permissions for the source file do not have read permissions set. The contents of the source file will not be added to the module map.

In the message text:

string is the source file name.

User response: Ensure the source file exists and that it has read permissions set.

#### **CDA1021** Error writing to module map file string.

Explanation: There may be insufficient disk space to write to the file.

In the message text:

string is the module map file.

**User response:** Ensure there is enough disk space available.

# Chapter 4. z/OS XL C/C++ legacy class libraries messages

This topic contains information about the XL C/C++ legacy class libraries messages that are included with the current release and should not be used as programming interface information.

The following information shows the format of these messages:

**Message format:** CLBnnnn<&*n*> text where:

nnnn error message number

&n error severity

text message which appears on the screen

CLB9900 An attempt to allocate memory has failed.

**Explanation:** The attempt to obtain memory in order to satisfy the current library request has failed. It cannot be performed on a collection because the collection is not empty.

**System action:** The requested function will fail.

**User response:** Run the program in a larger region or use the HEAP(,,FREE) runtime option instead of the HEAP(,,KEEP) option.

CLB9901 IOStreams do not support Record Mode I/O.

**Explanation:** The application is attempting to initialize an IOStreams object to perform Record Mode I/O. IOStream objects do not support Record Mode input and output.

**System action:** The attempt to initialize the object failed. The program continues to execute.

**User response:** Remove the "type=record" specification from the constructor or open() function call.

#### CLB9902 Too many characters.

**Explanation:** The application called the form() function with a format specifier string that caused form() to write past the end of the format buffer. form() is an obsolete interface provided in stream.h for compatibility with old code.

System action: Execution is stopped.

**User response:** Split the call to the form() function

into two or more calls.

CLB9903 There was a singularity; the application could not take the log of (0.0, 0.0).

**Explanation:** The application is attempting to take the log of (0.0, 0.0).

System action: Execution is stopped.

User response: Correct the value passed to the log()

function and resubmit.

CLB9904 The attempt to release the mutex handle failed.

**Explanation:** There was an internal error: pthread\_mutex\_destroy() failed.

**System action:** Execution is stopped.

**User response:** Note the return code and error number to identify the cause of the problem and inform IBM C++ Service and Support.

CLB9905 The attempt to lock the mutex handle failed.

**Explanation:** There was an internal error: pthread\_mutex\_lock() failed.

**System action:** Execution is stopped.

**User response:** Note the return code and error number to identify the cause of the problem and inform IBM C++ Service and Support.

CLB9906 The attempt to unlock the mutex handle failed.

**Explanation:** Internal error: pthread\_mutex\_unlock() failed.

**System action:** Execution is stopped.

**User response:** Note the return code and error number to identify the cause of the problem and inform IBM C++ Service and Support.

# Appendix. Accessibility

Accessible publications for this product are offered through IBM Knowledge Center (http://www.ibm.com/support/knowledgecenter/SSLTBW/welcome).

If you experience difficulty with the accessibility of any z/OS information, send a detailed message to the "Contact us" web page for z/OS (http://www.ibm.com/systems/z/os/zos/webqs.html) or use the following mailing address.

**IBM** Corporation

Attention: MHVRCFS Reader Comments

Department H6MA, Building 707

2455 South Road

Poughkeepsie, NY 12601-5400

**United States** 

### Accessibility features

Accessibility features help users who have physical disabilities such as restricted mobility or limited vision use software products successfully. The accessibility features in z/OS can help users do the following tasks:

- Run assistive technology such as screen readers and screen magnifier software.
- Operate specific or equivalent features by using the keyboard.
- Customize display attributes such as color, contrast, and font size.

# Consult assistive technologies

Assistive technology products such as screen readers function with the user interfaces found in z/OS. Consult the product information for the specific assistive technology product that is used to access z/OS interfaces.

# Keyboard navigation of the user interface

You can access z/OS user interfaces with TSO/E or ISPF. The following information describes how to use TSO/E and ISPF, including the use of keyboard shortcuts and function keys (PF keys). Each guide includes the default settings for the PF keys.

- z/OS TSO/E Primer
- z/OS TSO/E User's Guide
- z/OS ISPF User's Guide Vol I

# **Dotted decimal syntax diagrams**

Syntax diagrams are provided in dotted decimal format for users who access IBM Knowledge Center with a screen reader. In dotted decimal format, each syntax element is written on a separate line. If two or more syntax elements are always present together (or always absent together), they can appear on the same line because they are considered a single compound syntax element.

Each line starts with a dotted decimal number; for example, 3 or 3.1 or 3.1.1. To hear these numbers correctly, make sure that the screen reader is set to read out

punctuation. All the syntax elements that have the same dotted decimal number (for example, all the syntax elements that have the number 3.1) are mutually exclusive alternatives. If you hear the lines 3.1 USERID and 3.1 SYSTEMID, your syntax can include either USERID or SYSTEMID, but not both.

The dotted decimal numbering level denotes the level of nesting. For example, if a syntax element with dotted decimal number 3 is followed by a series of syntax elements with dotted decimal number 3.1, all the syntax elements numbered 3.1 are subordinate to the syntax element numbered 3.

Certain words and symbols are used next to the dotted decimal numbers to add information about the syntax elements. Occasionally, these words and symbols might occur at the beginning of the element itself. For ease of identification, if the word or symbol is a part of the syntax element, it is preceded by the backslash (\) character. The \* symbol is placed next to a dotted decimal number to indicate that the syntax element repeats. For example, syntax element \*FILE with dotted decimal number 3 is given the format 3 \\* FILE. Format 3 \\* FILE indicates that syntax element FILE repeats. Format 3\* \\* FILE indicates that syntax element \* FILE repeats.

Characters such as commas, which are used to separate a string of syntax elements, are shown in the syntax just before the items they separate. These characters can appear on the same line as each item, or on a separate line with the same dotted decimal number as the relevant items. The line can also show another symbol to provide information about the syntax elements. For example, the lines 5.1\*, 5.1 LASTRUN, and 5.1 DELETE mean that if you use more than one of the LASTRUN and DELETE syntax elements, the elements must be separated by a comma. If no separator is given, assume that you use a blank to separate each syntax element.

If a syntax element is preceded by the % symbol, it indicates a reference that is defined elsewhere. The string that follows the % symbol is the name of a syntax fragment rather than a literal. For example, the line 2.1 %0P1 means that you must refer to separate syntax fragment OP1.

The following symbols are used next to the dotted decimal numbers.

#### ? indicates an optional syntax element

The question mark (?) symbol indicates an optional syntax element. A dotted decimal number followed by the question mark symbol (?) indicates that all the syntax elements with a corresponding dotted decimal number, and any subordinate syntax elements, are optional. If there is only one syntax element with a dotted decimal number, the ? symbol is displayed on the same line as the syntax element, (for example 5? NOTIFY). If there is more than one syntax element with a dotted decimal number, the ? symbol is displayed on a line by itself, followed by the syntax elements that are optional. For example, if you hear the lines 5?, 5 NOTIFY, and 5 UPDATE, you know that the syntax elements NOTIFY and UPDATE are optional. That is, you can choose one or none of them. The ? symbol is equivalent to a bypass line in a railroad diagram.

#### ! indicates a default syntax element

The exclamation mark (!) symbol indicates a default syntax element. A dotted decimal number followed by the ! symbol and a syntax element indicate that the syntax element is the default option for all syntax elements that share the same dotted decimal number. Only one of the syntax elements that share the dotted decimal number can specify the ! symbol. For example, if you hear the lines 2? FILE, 2.1! (KEEP), and 2.1 (DELETE), you know that (KEEP) is the

default option for the FILE keyword. In the example, if you include the FILE keyword, but do not specify an option, the default option KEEP is applied. A default option also applies to the next higher dotted decimal number. In this example, if the FILE keyword is omitted, the default FILE(KEEP) is used. However, if you hear the lines 2? FILE, 2.1, 2.1.1! (KEEP), and 2.1.1 (DELETE), the default option KEEP applies only to the next higher dotted decimal number, 2.1 (which does not have an associated keyword), and does not apply to 2? FILE. Nothing is used if the keyword FILE is omitted.

#### \* indicates an optional syntax element that is repeatable

The asterisk or glyph (\*) symbol indicates a syntax element that can be repeated zero or more times. A dotted decimal number followed by the \* symbol indicates that this syntax element can be used zero or more times; that is, it is optional and can be repeated. For example, if you hear the line 5.1\* data area, you know that you can include one data area, more than one data area, or no data area. If you hear the lines 3\*, 3 HOST, 3 STATE, you know that you can include HOST, STATE, both together, or nothing.

#### Notes:

- 1. If a dotted decimal number has an asterisk (\*) next to it and there is only one item with that dotted decimal number, you can repeat that same item more than once.
- 2. If a dotted decimal number has an asterisk next to it and several items have that dotted decimal number, you can use more than one item from the list, but you cannot use the items more than once each. In the previous example, you can write HOST STATE, but you cannot write HOST.
- 3. The \* symbol is equivalent to a loopback line in a railroad syntax diagram.

#### + indicates a syntax element that must be included

The plus (+) symbol indicates a syntax element that must be included at least once. A dotted decimal number followed by the + symbol indicates that the syntax element must be included one or more times. That is, it must be included at least once and can be repeated. For example, if you hear the line 6.1+ data area, you must include at least one data area. If you hear the lines 2+, 2 HOST, and 2 STATE, you know that you must include HOST, STATE, or both. Similar to the \* symbol, the + symbol can repeat a particular item if it is the only item with that dotted decimal number. The + symbol, like the \* symbol, is equivalent to a loopback line in a railroad syntax diagram.

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- The core features of IEEE P1003.1a Draft 6 July 1991, Draft Revision to Information Technology—Portable Operating System Interface (POSIX), Part 1: System Application Program Interface (API) [C Language], copyright 1992 by the Institute of Electrical and Electronic Engineers, Inc.
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- The core features of IEEE 754-1985 (R1990) IEEE Standard for Binary Floating-Point Arithmetic (ANSI), copyright 1985 by the Institute of Electrical and Electronic Engineers, Inc.
- X/Open CAE Specification, System Interfaces and Headers, Issue 4 Version 2, copyright 1994 by The Open Group
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- X/Open Specification Programming Languages, Issue 3, Common Usage C, copyright 1988, 1989, and 1992 by The Open Group
- United States Government's Federal Information Processing Standard (FIPS) publication for the programming language C, FIPS-160, issued by National Institute of Standards and Technology, 1991

# **Bibliography**

This bibliography lists the publications for IBM products that are related to z/OS XL C/C++. It includes publications covering the application programming task. The bibliography is not a comprehensive list of the publications for these products, however, it should be adequate for most z/OS XL C/C++ users. Refer to z/OS Information Roadmap, SA23-2299, for a complete list of publications belonging to the z/OS product.

#### z/OS

- z/OS Introduction and Release Guide, GA32-0887
- z/OS Planning for Installation, GA32-0890
- z/OS Summary of Message and Interface Changes, SA23-2300
- z/OS Information Roadmap, SA23-2299
- z/OS Licensed Program Specifications, GA32-0888
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#### z/OS XL C/C++

- z/OS XL C/C++ Programming Guide, SC14-7315
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- z/OS XL C/C++ Language Reference, SC14-7308
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#### z/OS Metal C Runtime Library

• z/OS Metal C Programming Guide and Reference, SC14-7313

#### z/OS Runtime Library Extensions

- z/OS Common Debug Architecture User's Guide, SC14-7310
- z/OS Common Debug Architecture Library Reference, SC14-7311
- DWARF/ELF Extensions Library Reference, SC14-7312

#### **Debug Tool**

• Debug Tool documentation, which is available at http://www.ibm.com/software/awdtools/debugtool/library/.

### z/OS Language Environment

- z/OS Language Environment Concepts Guide, SA38-0687
- z/OS Language Environment Customization, SA38-0685
- z/OS Language Environment Debugging Guide, GA32-0908
- z/OS Language Environment Programming Guide, SA38-0682
- z/OS Language Environment Programming Reference, SA38-0683

- z/OS Language Environment Runtime Application Migration Guide, GA32-0912
- z/OS Language Environment Writing Interlanguage Communication Applications, SA38-0684
- z/OS Language Environment Runtime Messages, SA38-0686

#### **Assembler**

- HLASM Language Reference, SC26-4940
- HLASM Programmer's Guide, SC26-4941

#### COBOL

 COBOL documentation, which is available at: http://www.ibm.com/software/ awdtools/cobol/zos/library/.

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 PL/I documentation, which is available at http://www.ibm.com/software/ awdtools/pli/plizos/library/.

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 VS FORTRAN documentation, which is available at http://www.ibm.com/ software/awdtools/fortran/vsfortran/library.html.

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 DB2 for z/OS documentation, which is available at http://www.ibm.com/ software/data/db2/zos/library.html.

#### IMS/ESA®

 IMS documentation, which is available at http://www.ibm.com/software/data/ ims/library.html.

#### **MVS**

- z/OS MVS Program Management: User's Guide and Reference, SA23-1393
- z/OS MVS Program Management: Advanced Facilities, SA23-1392

#### QMF

• QMF documentation, which is available at http://www.ibm.com/software/ data/qmf/library.html.

#### **DFSMS**

- z/OS DFSMS Introduction, SC23-6851
- z/OS DFSMS Managing Catalogs, SC23-6853
- z/OS DFSMS Using Data Sets, SC23-6855
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CCN5026	102	CCN5093	108	CCN5162	114
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CCN5028	102	CCN5095	108	CCN5164	114
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