



ILOG CPLEX 10.2

Release Notes

May 2007

COPYRIGHT NOTICE

ILOG CPLEX 10.2 Copyright © 1997-2007, by ILOG S.A., 9 Rue de Verdun, 94253 Gentilly Cedex, France, and ILOG, Inc., 1080 Linda Vista Ave., Mountain View, California 94043, USA. All rights reserved.

General Use Restrictions

This document and the software described in this document are the property of ILOG and are protected as ILOG trade secrets. They are furnished under a license or nondisclosure agreement, and may be used or copied only within the terms of such license or nondisclosure agreement.

No part of this work may be reproduced or disseminated in any form or by any means, without the prior written permission of ILOG S.A, or ILOG, Inc.

Trademarks

ILOG, the ILOG design, CPLEX, and all other logos and product and service names of ILOG are registered trademarks or trademarks of ILOG in France, the U.S. and/or other countries.

All other company and product names are trademarks or registered trademarks of their respective holders.

Java and all Java-based marks are either trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

Microsoft and Windows are either trademarks or registered trademarks of Microsoft Corporation in the United States and other countries.

document version 10.2

Table of Contents

ILOG CPLEX 10.2 Release Notes	5
Announcement: Test Candidates	6
Announcement: Port Changes	6
Conversion Notes for Concert Technology C++ Users	7
Deprecated Method	8
Removed Methods	8
Improved Documentation	8
PDF Documentation	8
Index	11

ILOG CPLEX 10.2 Release Notes

Please review these notes before you use ILOG CPLEX 10.2.

- ◆ *Announcement: Test Candidates* on page 6
- ◆ *Announcement: Port Changes* on page 6
- ◆ *Conversion Notes for Concert Technology C++ Users* on page 7
- ◆ *Improved Documentation* on page 8

Announcement: Test Candidates

Periodically, ILOG seeks users to provide feedback about features and to test beta releases of ILOG CPLEX. If you would like to be added to the list of possible participants, please contact the ILOG CPLEX Product Manager by email at cplex-productmgr@ilog.fr.

Announcement: Port Changes

This release features support for a number of recent compiler and operating system versions. For a complete list of machine types and library formats (including version numbers of compilers and JDKs) available in the current release, see the file [yourCPLEXhome/mptable.html](#).

This release of ILOG CPLEX also includes several port changes affecting Intel IA-64 (Itanium) systems and IBM Power architecture. Table 1 on page 7 summarizes these changes.

For Intel IA-64 (Itanium) systems, Red Hat Enterprise Linux is no longer supported. (RHEL is still supported on other architecture.) The **recommended replacement** on Intel IA-64 (Itanium) is SuSE Linux Enterprise Server, a new port.

For IBM Power architecture systems, AIX 5.1 with IBM Visual Age C++ 6.0 is no longer supported. The **recommended replacement** is AIX 5.2 (or higher) with IBM XL C/C++ 7.0 or 8.0.

HP UX 11i on Intel IA-64 (Itanium) is available in this release, and customers can expect future support of this port, contrary to the announcement in a previous release.

In the **next release** of ILOG CPLEX, **no** Microsoft Windows operating systems will be supported on Intel IA-64 (Itanium) systems. However, Microsoft operating systems will be supported on other architecture.

Port inquiries may be directed to the ILOG CPLEX Product Manager at cplex-productmgr@ilog.fr.

Conversion Notes for Concert Technology C++ Users

Table 1 Port changes in ILOG CPLEX 10.2

Port Name	Platform	Status	Recommended Replacement
ia64_RHEL3.0_3.2	Red Hat Enterprise Linux 3 on Intel IA-64 Itanium	No longer available	Another architecture or SuSE 10 on Itanium
rs6000_5.1_6.0 rs64_5.1_6.0	IBM Power AIX with Visual Age C++ 6	No longer available	AIX 5.2 (or higher) with IBM XL C/C++ 7.0 or 8.0
In the next release			
ia64_.net2003_7.1	Microsoft Windows 64-bit on IA-64 Itanium	No longer available in the next release	Another architecture
New in this release			
ia64_sles10.0_4.1	SuSE Linux Enterprise Server 10.0 on IA-64 Itanium	New port available	
x86_.net2005_8.0	Windows XP Windows Server 2003 Windows Vista	Added support for Windows Vista	
x64_.net2005_8.0	Windows XP (64-bit) Windows Server 2003 (64-bit) Windows Vista (64-bit)	Added support for Windows Vista	
x86-64_rhel4.0_3.4	Red Hat Enterprise Linux 4.0 on x86-64, Red Hat Enterprise Linux 5.0 on x86-64 SuSE Linux Enterprise Server 10.0 on x86-64	Added support for Red Hat 5.0 and SuSE 10.0	
x86_rhel4.0_3.4	Red Hat Enterprise Linux 4.0 on x86 Red Hat Enterprise Linux 5.0 on x86	Added support for Red Hat 5.0	

Conversion Notes for Concert Technology C++ Users

There are no changes in the application programming interface (API) for C, Java, or .NET customers.

This release offers a new version of Concert Technology for the C++ API. Concert Technology 2.4 requires you to recompile and link your C++ applications of ILOG CPLEX.

Deprecated Method

The method `IloSolution::isBound` has been **deprecated**. It will be removed in the next release. If you have been using this deprecated method, we recommend that you use `IloSolution::isFixed` instead.

Removed Methods

The following methods were deprecated in a previous release of Concert Technology C++ API. They have been **removed** from Concert Technology 2.4 C++ API.

- ◆ `IloNumExprArg IloNumExprArray::operator() (IloNumExprArg idx) const`
- ◆ `IloNumExprArg IloNumVarArray::operator() (IloNumExprArg idx) const`
- ◆ `IloNumExprArg IloExprArray::operator() (IloNumExprArg idx) const`
- ◆ `IloIntExprArg IloIntExprArray::operator() (IloIntExprArg arg) const`
- ◆ `IloIntExprArg IloIntArray::operator() (IloIntExprArg idx) const`
- ◆ `IloIntExprArg IloIntVarArray::operator() (IloIntExprArg idx) const`
- ◆ `void IloEnv::assumeStrictNumericalDivision(IloBool val) const`
- ◆ `IloBool IloEnv::assumeStrictNumericalDivision() const`

Improved Documentation

The presentation of *ILOG CPLEX Parameters Reference Manual* has changed. Instead of a single table presenting all parameters, this reference manual now consists of individual web pages, one for each parameter. This improved presentation accomplishes several goals:

- ◆ You can print documentation about a given parameter from your usual browser.
- ◆ Each parameter page also displays the name of the parameter in every API, along with the customary information about its use and possible values.
- ◆ The search facility can now locate documentation of a parameter more precisely for you.
- ◆ A topical list of parameters has been added to the manual, so that you can locate parameters by general subject, such as MIP parameters, display parameters, and so forth.

PDF Documentation

A version in Portable Document Format (PDF) of the *Reference Manual of the Callable Library (C API)* and the *Reference Manual of the C++ API* is available in this release. If your browser is equipped with a plug-in for reading PDF, then both PDF manuals are accessible from the online HTML documentation, along with the other manuals usually available in PDF, at `yourCPLEXhome/doc/doc/html/index.html` when you choose

Improved Documentation

“Manuals Available in PDF”. These manuals are also available directly in PDF at `yourCPLEXhome/doc/doc/pdf`.

On Windows, PDF documentation is installed to the same directory as the MS HTML Help (.chm) documentation. The default location is: `C:\ILOG\OptimDoc2007a\`.

Index

A

AIX 5.x port change **6**

C

compiler version number **6**

H

HP UX 11i port change **6**

I

IBM Power architecture port change **6**

IBM Visual Age C++ 6.0 port change **6**

IBM XL C/C++ 7.0 port change **6**

IBM XL C/C++ 8.0 port change **6**

IloEnv::assumeStrictNumericalDivision
removed **8**

IloExprArray::operator() removed **8**

IloIntArray::operator() removed **8**

IloIntExprArray::operator() removed **8**

IloIntVarArray::operator() removed **8**

IloNumExprArray::operator() removed **8**

IloNumVarArray::operator() removed **8**

IloSolution::isBound deprecated **8**

IloSolution::isFixed new method **8**

Intel IA-64 port change

Microsoft Windows **6**

Red Hat Enterprise Linux **6**

Itanium port change

Microsoft Windows **6**

Red Hat Enterprise Linux **6**

L

library formats supported **6**

M

machine types supported **6**

P

port changes **6**

R

Red Hat Enterprise Linux (RHEL) port change **6**

S

SuSE Linux Enterprise Server new port **6**

