



# **ILOG CPLEX 10.1**

## **Release Notes**

**July 2006**

## **COPYRIGHT NOTICE**

ILOG CPLEX 10.1 Copyright © 1997-2006, 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 10.1

***Table of Contents***

**ILOG CPLEX 10.1 Release Notes . . . . . 5**

**Focus of ILOG CPLEX 10.1 . . . . .5**

**Announcement: Port Changes . . . . .6**

**Conversion Note for All Users . . . . .6**

**Conversion Note for Concert Users . . . . .6**

**Index . . . . .9**



# ***ILOG CPLEX 10.1 Release Notes***

Please review these notes before using ILOG CPLEX 10.1.

- ◆ *Focus of ILOG CPLEX 10.1* on page 5
- ◆ *Announcement: Port Changes* on page 6
- ◆ *Conversion Note for All Users* on page 6
- ◆ *Conversion Note for Concert Users* on page 6

---

## **Focus of ILOG CPLEX 10.1**

This release of ILOG CPLEX provides improvements in models with logical constraints, indicator constraints, or linearized constraints. The changes provide the user with increased performance when solving models that use one of these features. No user code needs to be changed nor parameters selected to take advantage of these improvements.

There are no API changes in this release.

The version of ILOG Concert Technology has changed, requiring you to recompile and link your application.

Finally, there are some general programming improvements that will be useful to a variety of users.

---

## Announcement: Port Changes

The next major release of ILOG CPLEX will offer several major port changes. The following ports will no longer be available. Customers will need to migrate to a different port.

*Table 1 Port Changes*

No longer available in next major release	Recommended migration
AIX 5.x with Visual Age 6.0	AIX 5.2 (or higher) with xl C/C++ 7.0 or 8.0
Red Hat Enterprise Linux 3.0	Red Hat Enterprise Linux 4.0 or 5.0
HP UX 11i v2 for Itanium	Customer's choice

Port inquiries may be directed to the ILOG CPLEX Product Manager at [cplex-productmgr@ilog.fr](mailto:cplex-productmgr@ilog.fr).

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](#).

---

## Conversion Note for All Users

In the makefile distributed with the product, the target to compile and execute examples distributed with the product now expects the path of the current working directory (that is, `./`). This convention avoids ambiguity between names of the examples and any existing executable software already installed on the user's platform. For example, previous instructions about compiling and executing ILOG CPLEX examples suggested the following command:

```
make example
```

Now the recommended command is:

```
make ./example
```

---

## Conversion Note for Concert Users

Recall that the methods `getRootAlgorithm`, `setRootAlgorithm`, `getNodeAlgorithm`, `setNodeAlgorithm` have been **deprecated** since ILOG CPLEX version 8.0. If your application uses any of these deprecated methods, you need to **recompile** your application to take into account a new **exception** that these methods may raise. It is preferable to use the

parameters `RootAlgorithm` or `NodeAlgorithm` instead of these deprecated methods. You must eliminate these deprecated functions from your application, as they will entirely disappear from ILOG CPLEX in the **next major release**.





Index

C

compiler version number 6

E

examples  
    makefile to compile and execute 6

G

getNodeAlgorithm deprecated method  
    must eliminate soon 6  
    must recompile 6  
getRootAlgorithm deprecated method  
    must eliminate soon 6  
    must recompile 6

L

library formats supported 6

M

machine types supported 6  
makefile 6

P

port changes 6

S

setNodeAlgorithm deprecated method  
    must eliminate soon 6  
    must recompile 6  
setRootAlgorithm deprecated method  
    must eliminate soon 6  
    must recompile 6

