Java 1.3.1 and 1.4.2 Release 2 Release Notes

Java

2005-10-03

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Introduction to Java 1.3.1 and 1.4.2 Release 2 Release Notes

This release of Java for Mac OS X v10.4 includes improvements to Apple's Java implementation and features enhanced versions of Sun's Java 2 Platform, Standard Editions 1.3.1_16 and 1.4.2_09.

What is Java 1.3.1 and 1.4.2 Release 2?

Java 1.3.1 and 1.4.2 Release 2 provides numerous enhancements and bug fixes for Apple's implementation of Java on Mac OS X v.10.4. This release includes compatibility with Sun's Java 2 Platform Standard Edition, versions 1.4.2_09 and 1.3.1_16. For general information about Java changes in Java 1.3.1_16, see *Release Notes - Java 2, Standard Edition Version 1.3.1_16* at http://java.sun.com/j2se/1.3/ReleaseNotes.html. For general information about Java changes in Java 1.4.2_09, see *Release Notes - Java 2 SDK, Standard Edition Version 1.4.2_09* at http://java.sun.com/j2se/1.4.2/ReleaseNotes.html.

Who Should Read This Document?

Any developer that currently distributes Java 1.3.1 or 1.4.2 applications for Mac OS X v10.4 should read this document since the changes in this release may affect your application. Anyone interested in new Java development (either J2SE or Cocoa Java) should read this document for the most current information on new features and outstanding issues with Java on Mac OS X.

Organization of This Document

This document contains the following chapters:

- "Resolved Issues" (page 7) highlights a selection of high-visibility bugs that have been addressed in this release. This chapter is broken down by the category where the bug occurs and provides a brief description of what the issue was and how it was resolved.
- "Outstanding Issues" (page 13) presents a selection of high-visibility bugs that you may need to work around with this release. This chapter is broken down by the category where the bug occurs and provides a brief description of what the issue is and often provides a workaround for the issue.

This document also contains a revision history.

If you are just beginning Java development for Mac OS X, you can probably just read the "Outstanding Issues" (page 13) chapter. Otherwise, it is recommended that Java developers read all chapters.

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See Also

The Following Apple Java documentation may be helpful:

- *Java Development Guide for Mac OS X*
- *Java Property, VM Option, and Info.plist Key Reference for Mac OS X*
- Previous Java Release Notes
- *Java on Mac OS X Frequently Asked Questions* (http://developer.apple.com/java/faq/)

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Resolved Issues

This chapter lists high-visibility bugs that have been addressed in this release. It is not a complete listing of all of the bugs addressed. If you still have issues with any of these bugs, please file a new bug at http://bugreport.apple.com/ under the `Java (new bugs)` component, Version `X`. Refer to the bug number indicated below in your new bug if you believe it is the same issue.

Java Aqua Look-and-Feel

Radar #3134264

Variable JTableHeader Heights

Description:

If `JTableHeader` heights other than 16 pixels were used, the headers would display incorrectly.

Resolution:

A `JTableHeader` of any height now displays properly.

Radar #4127911

JFileChooser and Virtual Machine Crashes

Description:

`JFileChooser` instances suffered from a memory issue that crashed the Virtual Machine.

Resolution:

The memory issue is fixed, meaning that `JFileChooser` instances no longer cause crashes.

Java AWT

Radar #4049672

LiveConnect and File Dialogs

Description:

Attempting to show a `FileDialog` using LiveConnect caused a deadlock that could hang the host application.

Resolution:

Showing a `FileDialog` from LiveConnect no longer causes a deadlock.

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Radar #4097730

Headless Applications and AWT

Description:

In a headless application, trying to use any part of the AWT caused a debugging message to be printed, halting the application while waiting for user input.

Resolution:

The debugging message no longer appears, allowing the application to continue executing.

Radar #4103340

Applet Backgrounds Affect Host Windows

Description:

Under certain circumstances, setting an applet's background color would also change the host window's background color.

Resolution:

Applet background changes no longer change the host window's background.

Radar #4115676

Window Memory Leak

Description:

Some `Window` and `Window` subclass objects were leaking memory.

Resolution:

Disposed `Window` objects are garbage collected and no longer leak memory.

Radar #4135360

AWT List Responsiveness

Description:

Working with AWT lists, including insertion and deletion, was very slow.

Resolution:

Lists are considerably more responsive.

Radar #4138595

Container Validation Speed

Description:

Calls to `Container.validate()` were slow to return.

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Resolution:

A call to `Container.validate()` is more responsive.

Radar #4162089

Deadlock During Live Resize

Description:

Some applications would deadlock during resize if they were creating or destroying components on non-event threads at the same time.

Resolution:

Live Resizing no longer causes a deadlock.

Java Events

Radar #4130802

Tablets and Unwanted Console Messages

Description:

If using a tablet for input, unwanted `tabletProximity` and `tabletPoint` messages were output to Console.

Resolution:

The messages are no longer output.

Java Graphics

Radar #3481856

Textures and Printing

Description:

Under certain circumstances, attempting to print textures and gradients resulted in blank pages.

Resolution:

Textures and gradients now print properly.

Radar #3826711

Four-bit PNG Display Issues

Description:

Previously, 4-bit PNG files wouldn't display properly.

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Resolution:

This release properly displays 4-bit PNG images.

Radar #4077275

XOR Operations Cause Flickering

Description:

Some XOR operations would cause the window contents to be flushed, causing some applications to flicker.

Resolution:

There should be no more flicker associated with XOR operations.

Radar #4161821

TYPE_INT_RGB Image Type Rendering Performance

Description:

Images of `TYPE_INT_RGB` were slow to render.

Resolution:

These images now render more quickly.

Java Printing

Radar #4039157

Using Multiple Printers

Description:

Applications could only print to a user's default printer.

Resolution:

Users can target a printer from a print dialog window.

Java Swing

Radar #3882849

Pasteboard Keyboard Shortcuts and Swing Applets

Description:

Swing applets weren't receiving copy, cut, and paste events that were the result of a keyboard shortcut (Command-C, Command-X, and Command-V, respectively).

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Resolution:

The keyboard shortcuts for Pasteboard operations now function as expected. Note that Swing applets have their own pasteboards that are not shared with the system's general pasteboard (Cocoa) or Clipboard pasteboard (Carbon).

Radar #4107754

Swapping Menu Bars Within the Screen Menu Bar

Description:

When an application used the Screen Menu Bar and swapped between multiple menu bars via `setJMenuBar()` duplicate menus were shown.

Resolution:

Duplicate menus are no longer shown.

Java Text

Radar #4071289

Display Issues After Input Source Character Set Change

Description:

Changing the input source character set wasn't immediately respected by input fields.

Resolution:

Input source character set changes now take effect immediately.

Radar #4183194

KANJI Text Underlining

Description:

While typing Japanese text the length of the underline below composed text was incorrect.

Resolution:

The underline drawn during text entry is now the correct length.

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Outstanding Issues

This chapter lists bugs that you may need to work around in your Java code for Mac OS X. Where possible, workarounds are provided.

Java AWT

Radar #4205435

Nested Dialogs

Description:

Nested modal dialogs don't behave properly if they all use a common parent.

Workaround:

Use the previous modal dialog as the current dialog's parent.

Java Virtual Machine

Radar #4215376

Xcheck Flag crashes in Java 1.3.1

Description:

The Java 1.3.1 version of the `java` command lists an option called `-Xcheck:jni`. This option currently does not function. You will see *Bus error* if you try to execute this option.

Workaround:

There is no workaround.

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Document Revision History

This table describes the changes to *Java 1.3.1 and 1.4.2 Release 2 Release Notes*.

Date	Notes
2005-10-03	First version.

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Document Revision History

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