



Getting Started Guide



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See Third\_Party\_Contributions.htm in your Quest Software License Server installation directory.

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# **Welcome to JClass DesktopViews**

*Using this Installation Guide* ■ *Supported Platforms*

Thank you for purchasing or evaluating JClass DesktopViews. JClass DesktopViews is composed of the following products:

* JClass Chart 3D, which adds powerful, three-dimensional graphing capabilities to Java.
* JClass Chart, which allows you to develop sophisticated charting applications with components, or develop fast, effective chart solutions with the MultiChart and SimpleChart JavaBeans.
* JClass Elements, which is a collection of pre-built, pre-tested, GUI JavaBean components and utilities designed to enhance and extend Swing.
* JClass Gauge, which enables you to create various types of gauges to add to your application.
* JClass JarMaster, which makes packaging and managing your classes to ensure fast download easy.
* JClass LiveTable, which is a high quality grid/table JavaBean for data-driven display.
* JClass PageLayout, which is the ultimate tool for putting your Java application data on paper or on-screen.

## **Using this Installation Guide**

The JClass DesktopViews Installation Guide is broken up into the following sections,

each geared to further integrate JClass DesktopViews into your environment.

* Before installing JClass DesktopViews, we suggest that you first verify that your current operating system and IDE are supported and that you are familiar with the installation and licensing information in the Installation and Licensing Overview chapter before proceeding.
* Once you are familiar with the information, continue on to either:

❏ Microsoft Windows: Installing and Licensing

❏ UNIX: Installing and Licensing

* Once the product is installed and licensed, the steps required to integrate
JClass DesktopViews within your development environment are outlined in the

JClass DesktopViews and Your Development Environment chapter.

The Technical Support chapter will provide you with all the information you might need to contact Quest’s technical support team if you require assistance in the installation, licensing, and integration of JClass DesktopViews.

If you require more information on programming, please refer to the programmer’s

guides in the following locations:

* *JClass Chart Programmer’s Guide*, in *JCLASS\_HOME/docs/chart*
* *JClass Chart 3D Programmer’s Guide*, in *JCLASS\_HOME/docs/chart3d*
* *JClass Elements Programmer’s Guide*, in *JCLASS\_HOME/docs/elements*
* *JClass Gauge Programmer’s Guide*, in *JCLASS\_HOME/docs/gauge*
* *JClass JarMaster Programmer’s Guide*, in *JCLASS\_HOME/docs/jarmaster*
* *JClass LiveTable Programmer’s Guide*, in *JCLASS\_HOME/docs/table*
* *JClass PageLayout Programmer’s Guide*, in *JCLASS\_HOME/docs/pagelayout*

## **Supported Platforms**

JClass DesktopViews is supported on a selection of operating systems using JDK 1.4.2 or later. It has been tested with a variety of browsers and IDEs. The following lists summarize the supported platforms.

**Important:** Supported platforms are subject to change. In the case of a discrepancy between this guide and the *Supported Platforms* section of the *readme.html* file, the readme file supersedes the list of platforms below.

**Operating Systems and JDKs**

The following operating systems are supported with the specified JDKs:

* Microsoft® Windows® 2000, XP, Server 2003, and Vista

with Sun JDK 1.4.2, 5.0, or 6.0 or BEA® JRockit® 5.0

* Sun Solaris® SPARC® 8, 9, and 10 with Sun JDK 1.4.2, 5.0, or 6.0
* HP® HP-UX® 11i with HP JDK 1.4.2 or 5.0
* IBM AIX® 5L 5.2, and 5.3 with IBM JDK 1.4.2 or 5.0 (AIX 5.2 and 5.3 only)

IBM AIX® 5L 6.1 with IBM JDK 6.1

* Red Hat® Enterprise Linux® AS 3.0, 4.0 and 5.0

with Sun JDK 1.4.2, 5.0, or 6.0 or BEA JRockit 5.0

* Novell® SUSE® Linux Enterprise Server 9 and 10

with Sun JDK 1.4.2, 5.0, or 6.0 or BEA JRockit 5.0

* Apple® Mac OS® X 10.4.3 with Apple JDK 1.4.2 or 5.0

**Note**: For JClass DesktopViews 6.4.2, Sun JDK 1.4.2 is the minimum level supported.

**Browsers**

The following browsers are supported:

* Mozilla® Firefox® 1.5.0/2.0
* Microsoft Internet Explorer® 5.5/6.0/7.0 with Java Plug-in

**IDEs**

The following IDEs are supported for compiling, Javadoc, and JavaBeans:

* Borland® JBuilder®2005
* IBM Rational Application Developer 6.0
* Sun Java Studio Creator 8.0
* NetBeans 5.5
* JetBrains® IntelliJ IDEA™ 6.0 \*
* Eclipse 3.2, 3.3, 3.4

**\*** JClass DesktopViews JavaBeans are not supported with these IDEs

# **Installation and Licensing Overview**

*JClass DesktopViews Installation Files* ■ *Installed Directories*

*Licensing Overview* ■ *Upgrading a JClass DesktopViews Installation*

The JClass DesktopViews installation is comprised of two parts:

* extracting and installing the product
* installing the license file

The JClass License Wizard contains online Help to assist you through this installation process.

## **JClass DesktopViews Installation Files**

If you purchased a physical kit, your JClass DesktopViews installation CD contains

JClass Chart, JClass Chart 3D, JClass Elements, JClass Gauge, JClass JarMaster,

JClass LiveTable, and JClass PageLayout packaged for installation on Microsoft

Windows, UNIX, and other development platforms; if you purchased the product online, download the appropriate development platform(s) installer(s) for your environment.

|  |  |
| --- | --- |
| **Target Platform** | **JClass DesktopViews** |
| Microsoft Windows | jcdesktopviews642.exe |
| IBM AIZ 5L | jcdesktopviews642-aix.bin |
| Sun Solaris SPARC | jcdesktopviews642-sol.bin |
| HP HP-UX | jcdesktopviews642-hp.bin |
| Red Hat Enterprise Linus AS *or* Novell SUSE Enterprise Linux Server | jcdesktopviews642-Inx.bin |
| Apple Mac OS X | jcdesktopviews642-mac.bin |

To continue with the installation, ensure that you have a valid license file.

## **Installed Directories**

The following directory structure is created on your system when you install

JClass DesktopViews.

Please note that throughout this document we use the environment variable JCLASS\_HOME to represent the directory on your system where you have installed JClass DesktopViews.



## **Licensing Overview**

In order to use the production version JClass DesktopViews, you need a valid license file. To install and use an evaluation version of JClass DesktopViews, no license is required.

Please note that an evaluation installation only allows you to test the different JClass DesktopViews functionality for a limited period of time. You have access to demos

and examples and you can begin prototype level development of your code, but you can not use it in a production environment and there may be an “evaluation” watermark in the generated output.

Licenses are transferable; please email *support@quest.com*. To purchase any JClass product, please contact Quest Software at *sales@quest.com*.

**Production**

A Production license allows you full access to the JClass DesktopViews products for development and production, eliminating the watermark.

You can purchase the JClass DesktopViews source code as well.

**The License Repository**

A license file (typically named *jclass-desktopviews.license*) is emailed to you from Quest Software. Once you receive this file, you will be able to install JClass DesktopViews on the licensed host. The license repository will be created during installation and then will be found in the *JCLASS\_HOME/licenses/* directory.

**Using JClass DesktopViews and JClass ServerViews**

JClass ServerViews are pure J2EE components for generating interactive charts and PDF documents on the fly, bringing live professional data visualization to Web browsers.

To use both JClass ServerViews and JClass DesktopViews on the same machine, a

separate classpath setting must exist for each product. Since both products have

components in common, which have been optimized for each product, placing them on the same classpath will result in the virtual machine and/or compiler automatically

choosing the first class that matches. This may be from the wrong product, and may result in the desired product not working correctly.

## **Upgrading a JClass DesktopViews Installation**

You can run different versions of JClass DesktopViews on the same machine. To do so, simply run the installer and, when it asks you where you would like to install the product, select a different folder than the one where the current JClass installation resides.

For example, if you already have JClass DesktopViews version 6.3 installed on your

system, and you accepted the default installation, it will be installed in a

*JClass DesktopViews 6.3* folder. When installing the latest version, use a different folder name, such as *JClass DesktopViews 6.4*.

If you would like to install the latest version of JClass DesktopViews without keeping any past versions, you must first run the uninstaller to remove JClass from your system. Proceed with installing JClass, as outlined in Installing and Licensing

JClass DesktopViews in Microsoft Windows or Installing and Licensing
JClass DesktopViews on UNIX.

**Note:** When installing a newer version of JClass, it is essential that the new and old JAR files do not mix. For that reason, do not install a new version over top of an old version; either uninstall the older version first, or install the new version in a different folder.

**Changing your license**

To update your license, launch the license wizard, delete the old license and add the new one.

Once you have updated your license in the license wizard, it is important to verify that the JAR files you intend to use are correctly referenced. You should check your classpath and IDE preferences to ensure that you are not referencing old product versions.

# **Microsoft Windows: Installing and Licensing**

*Installing and Licensing JClass DesktopViews in Microsoft Windows*

## **Installing and Licensing JClass DesktopViews in Microsoft Windows**

1. **Insert the JClass DesktopViews CD or download the installation executable.**

To run the executable file, *jcdesktopviews642.exe*, double-click it. Once running, follow the instructions given by the installation program.

1. **Install the product files.**
2. **Ensure that JCLASS\_HOME is set correctly.**

While setting the JCLASS\_HOME is optional, it is highly recommended as it adds a valuable level of platform and file system independence.

JCLASS\_HOME should be set correctly by the installation program. If not, you can set it manually at a command prompt.

For example:

set JCLASS\_HOME=C:\JClassDesktopViews\_642

where C:\JClassDesktopViews\_642 is the JClass DesktopViews installation directory.

**Note:** Though we suggest that you set your JCLASS\_HOME environment variable, this is not required for JClass DesktopViews to function properly.

1. **Run the JClass License Wizard to install the** JClass DesktopViews **License.**

JClass License Wizard automatically launches while you are running the installer.

**Adding a License File to JClass JARs**

Using the JClass License Wizard, you may also install your license file into
JClass DesktopViews JAR files.

Once you have selected the product(s) you want to install, the JClass License Wizard allows you to choose whether you want to add your license file to JClass DesktopViews JARs.



If you choose not to add your license file to JClass DesktopViews JARs during the installation and later decide to add them, simply run the JClass License Wizard again and add them.

# **UNIX: Installing and Licensing**

*Installing and Licensing JClass DesktopViews on UNIX*

## **Installing and Licensing JClass DesktopViews on UNIX**

1. **Insert the JClass DesktopViews CD or download the installation executable.**
2. **Install the product files.**

To determine the appropriate file for your UNIX environment, please refer to
JClass DesktopViews Installation Files in the first chapter of this document.

You can launch the JClass DesktopViews installer from a GUI or from the command line. In both cases, the installer will be the same.

* **GUI:** Right click the appropriate installation file and select the option to view its properties or change its permissions (the name of this option will vary depending on your platform). Enable the Execute permission for at least the file’s owner, and save your changes. Double-click the file in the file manager to start the installation.
* **Command-line:** Execute the installer by typing:

sh jcdesktopviews642-\*.bin

where \* indicates the proper platform.

Follow the instructions given by the installation program.

1. **Ensure that JCLASS\_HOME is set correctly.**

While setting the JCLASS\_HOME is optional, it is highly recommended as it adds a valuable level of platform and file system independence.

JCLASS\_HOME should be set correctly by the installation program. If not, you can set it manually at a command prompt.

For example:

setenv JCLASS\_HOME /opt/JClassDesktopViews\_642

where /opt/JClassDesktopViews\_642 is where you installed the
JClass DesktopViews product(s).

**Note:** Though we suggest that you set your JCLASS\_HOME environment variable, this is not required for JClass DesktopViews to function properly.

1. **Run the License Wizard to install the JClass DesktopViews license.**

The JClass License Wizard automatically launches while you are running the installer.

To run the license again, go to the *JCLASS\_HOME/bin* directory and launch *jclicense*. Follow the instructions to install the license.

**Adding a License File to JClass JARs**

Using the JClass License Wizard, you may also install your license file into
JClass DesktopViews JAR files.

Once you have selected the product(s) you want to install, the JClass License Wizard allows you to choose whether you want to add your license file to JClass DesktopViews JARs.



If you choose not to add your license file to JClass DesktopViews JARs during the installation and later decide to add them, simply run the JClass License Wizard again and add them.

# **JClass DesktopViews and YourDevelopment Environment**

*JClass DesktopViews JAR Files* ■ *JClass DesktopViews and Your CLASSPATH*

*Examples and Demos* ■ *Integrating JClass DesktopViews into your Ant Build Scripts*

## **JClass DesktopViews JAR Files**

The JClass JAR files are located in the *lib* subdirectory of your JClass DesktopViews installation. The following table helps determine the JClass product JAR file to install for use with your application.

|  |  |
| --- | --- |
| **Product** | **JAR files** |
| JClass ChartJClass Chart 3DJClass ElementsJClass GuageJClass PageLayoutJClass LiveTableJClass JarMaster | jcchart.jarjchart3dj2d.jarjcelements.jarjcguage.jarjcpagelayout.jarjctable.jar, jcfield.jarjcjarmaster.jar |

## **JClass Desktop Views and Your CLASSPATH**

The Java Virtual Machine (JVM) and other applications use the CLASSPATH environment variable to locate user-defined classes. You should ensure that the CLASSPATH points to the location of the JClass DesktopViews JAR files (and any other classes you develop). The Windows installation program does this automatically. UNIX users must manually configure their CLASSPATH.

Note: For JClass DesktopViews 6.4.2, Sun JDK 1.4.2 is the minimum level supported.

Two entries should be part of the CLASSPATH:

* one specifying the JClass product classes (a JAR file located in the product’s \*lib*\directory)
* one specifying the installation directory (necessary to run JClass example and demo programs). You should not need to extract the JAR archive to develop with JClass DesktopViews products

**Setting the CLASSPATH in Windows**

Open the **Control Panel** and select **System**. Locate the environment variables on the

**Advanced** tab.

Look for a CLASSPATH environment variable (if it doesn’t exist, create it), and make sure that the JClass JAR location and home location are in the variable. For example, to include JClass Chart in the CLASSPATH, add the following value to the variable:

[*existing-classes*];C:\JCLASS\_HOME\lib\jcchart.jar;C:\JCLASS\_HOME;

The following illustrates a CLASSPATH setting; your actual setting may vary or have additional directories/JAR files.



**Setting the CLASSPATH in UNIX**

In UNIX, you must manually configure the CLASSPATH environment variable before you can start using any JClass DesktopViews product. The CLASSPATH must point to the location of the classes and installation directory.

For example, to set the CLASSPATH for JClass Chart, add a *setenv* command to your startup file (such as *.cshrc*) to set CLASSPATH to point to the classes, for example:

setenv CLASSPATH $CLASSPATH

${JCLASS\_HOME}/lib/jcchart.jar:

${JCLASS\_HOME}

If you are using the Bourne Shell, the commands are:

CLASSPATH=$CLASSPATH:/${JCLASS\_HOME}/lib/jcchart.jar:

${JCLASS\_HOME}

export CLASSPATH

**Examples and Demos**

JClass DesktopViews includes examples and demos for each of the products. The

examples show you how to create and customize a single JClass DesktopViews

component. Demos demonstrate how to use one or more JClass DesktopViews

components within the context of a larger application. Many of the examples and demos are referenced in the JClass *Programmer’s Guides*.

**Note:** Your CLASSPATH and JCLASS\_HOME environment variables must be set

correctly to run the demos and examples. For more information, see

JClass DesktopViews and Your CLASSPATH on page 17.

**Locating the Examples and Demos**

You can find examples in the *JCLASS\_HOME/examples/* directory and demos in the

*JCLASS\_HOME/demos/* directory. Examples and demos are organized by product.

**Introducing the Example & Demo Gallery**

The JClass DesktopViews *Example & Demo Gallery* provides an interface for running the examples and demos. The Gallery runs within a custom JComponent.



*Figure 1 JClass DesktopViews Example & Demo Gallery*

In the *Example & Demo Gallery*, you can:

* locate examples for each JClass product under the **Simple Examples** branch
* locate demos for each JClass product under the **Full Demos** branch
* view a description of an example or demo
* run examples and demos without compiling
* open the source code for an example or demo

**Starting and Using the Example & Demo Gallery**

To start the Gallery, launch *jcexamples* from the *JCLASS\_HOME/bin/* directory.

Alternatively, in Microsoft Windows you can select the *Example & Demo Gallery* item in the JClass DesktopViews program group off the Start menu.

To run an example:

* + - 1. Expand the **Full Demos** branch or the **Simple Examples** branch.
1. Expand the branch for the JClass product that you are interested in.
2. Expand the branch for one of the examples.
3. To find out the purpose of the selected example, double-click the

**View <example\_name> Documentation** item.

1. To run the example, double-click the **Run <example\_name>** item.
2. To open the source code, double-click the **View <example\_name> Source** item.

**Integrating JClass DesktopViews into your Ant Build**

**Scripts**

In order to compile your JClass application using the popular Ant build tool, you must ensure that the JClass JAR files you are using are specified in the CLASSPATH of the <javac> task that performs the compilation. If your environment's CLASSPATH setting includes the JClass JARs, then they will automatically be available for any <javac> task you use. However, we recommend that you specify explicitly the JClass JAR files to be used via a nested <fileset>. For example:

<project name="JClassApp">

<!-- Enable the prefix env for accessing environment variables -->

<property environment="env" />

<!-- Set a property, jcse\_home, to be used throughout the build file when referring to your JClass installation -->

<property name="jcse\_home" value="env.JCLASS\_HOME" />

<!-- Set some properties specific to our application -->

<property name="srcdir" value="src" />

<property name="builddir" value="build" />

<!-- Create a path containing the required JClass JAR files -->

<path id="jclass\_jars">

<fileset dir="${jcse\_home}/lib">

<include name="\*.jar" />

</fileset>

</path>

<target name="compile" description="Compiles all .java files in our JClass application src directory">

<javac srcdir="${srcdir}"

sourcepath=""

includeAntRuntime="no"

includeJavaRuntime="no"

fork="yes">

<!-- Make sure to fork a new process to ensure your explicit settings are used -->

<classpath refid="jclass\_jars" />

<!-- Specify the JClass jars on the 'CLASSPATH' -->

<patternset refid="\*\*/\*.java" />

</javac>

</target>

</project>

Your JClass installation includes an Ant script that demonstrates various ways of integrating JClass with your Ant environment, using the demos and examples as a sample "application". Located in the *bin* directory, execute
ant -f demobuilder.xml for instructions on how to use the various tasks it contains.

# **Integrating JClass DesktopViews JavaBeans in an IDE**

*NetBeans 5.0*

## **NetBeans 5.0**

For full details on using JavaBeans with NetBeans, please refer to the NetBeans documentation.

**Creating a New Palette in NetBeans**

1. Launch NetBeans.
2. From the main menu, select **Tools > Palette Manager > Swing/AWT Components**.

The *Palette Manager* dialog box opens.

1. Select **New Category**.
2. In the *New Palette Category* dialog box, type a name for the palette, such as **JClass** or **Quest** and click **OK**.



1. In the *Palette Manager* dialog box, confirm that the new palette appears in the list. In this example, the palette is called **JClass**.

****

**Adding JClass DesktopViews Beans to the JClass Palette**

1. In the *Palette Manager* dialog box, select **Add From JAR**.

The *Install Components to Palette* wizard opens.

1. Navigate to your *JCLASS\_HOME/lib* directory. Select the JAR files for the JClass products you want to use and click **Next**.



1. A list of beans contained in the selected JAR files is displayed. Select the beans you want to use and click **Next**.



1. Select the **JClass** palette.



1. Click **Finished**. The beans are added to the JClass palette.
2. In the *Palette Manager* dialog box, click **Close**.

When you work with a form, the JClass palette is available in the Palette window. When you add a bean, its properties are displayed.



**Removing JClass DesktopViews Beans**

1. From the main menu, select **Tools > Palette Manager > Swing/AWT
Components**. The *Palette Manager* dialog box opens.
2. To remove the JClass palette and all its beans, select the **JClass** palette and click
**Remove**. In the confirmation dialog box, click **Yes**.
3. To remove a JClass bean, expand the **JClass** palette, select the bean to remove, and
click **Remove**. In the confirmation dialog box, click **Yes**.

# **Technical Support**

*About Quest Software, Inc* ■ *Contacting Quest Software* ■ *Contacting Quest Support*

## **About Quest Software, Inc**

Quest Software, Inc. delivers innovative products that help organizations get more

performance and productivity from their applications, databases and Windows

infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 18,000 customers worldwide meet higher expectations for enterprise IT. Quest Software can be found in offices around the globe and at [*www.quest.com*](http://www.quest.com).

## **Contacting Quest Software**

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| **Mail** | Quest Software, IncWorld headquarters5 Plaris WayAliso Viejo, CA 92656USA |
| **Web site** | [*www.quest.com*](http://www.quest.com) |

 Refer to our web site for regional and international office information.

## **Contacting Quest Support**

Quest Support is available to customers who have a trial version of a Quest product or who have purchased a commercial version and have a valid maintenance contract. Quest Support provides around the clock coverage with SupportLink, our web self-service. Visit SupportLink at: *http://support.quest.com*

From SupportLink, you can do the following:

* Quickly find thousands of solutions (Knowledgebase articles/documents).
* Download patches and upgrades.
* Seek help from a Support engineer.
* Log and update your case, and check its status.

View the *Global Support Guide* for a detailed explanation of support programs, online services, contact information, and policy and procedures. The guide is available at: *http://support.quest.com/pdfs/Global Support Guide.pdf*

**JClass Community**

For the latest product information, helpful resources, and discussions with theJClass

Quest team and other community members, join the JClass community at http://jclass.inside.quest.com/.