

JDK and JRE File Structure

本页提供了“JDK目录和文件的概要介绍”

This page provides an introductory overview of the JDK directories and the files they contain. Note that the file structure of the JRE is identical to that of the JDK's [jre directory](#).

Development Files and Directories

本节介绍最重要的文件和目录

This section describes the most important files and directories required to develop applications for the Java platform.

(Note that some of the directories that are not required include [Java source code](#) and C header files. These are mentioned in the [Additional Files and Directories](#) section.)

Assuming the JDK software is installed at `c:\jdk1.7.0`, here are some of the most important directories:

`c:\jdk1.7.0`

JDK根目录

版权、许可和自述文件

Root directory of the JDK software installation. Contains copyright, license, and README files. Also contains `src.zip`, the archive of source code for the Java platform. Java平台源代码归档文件

`c:\jdk1.7.0\bin`

用于开发工具的可执行文件

Executable files for the development tools contained in the Java Development Kit. The `PATH` environment variable should contain an entry for this directory. For more information on the tools, see the [JDK Tools](#).

`c:\jdk1.7.0\lib`

Files used by the development tools. These include the following:

- `tools.jar`: Contains non-core classes for support of the tools and utilities in the JDK
- `dt.jar`: DesignTime archive of BeanInfo files that tell interactive development environments (IDEs) how to display the Java components and how to let the developer customize them for an application
- `ant-javafx.jar`: Contains Ant tasks for packaging JavaFX applications; see [Packaging](#) in [Deploying JavaFX Applications](#)

`c:\jdk1.7.0\jre`

Java运行环境的根目录

运行环境是Java平台的一个实现

Root directory of the Java runtime environment used by the JDK development tools. The runtime environment is an implementation of the Java platform. This is the directory represented by the `java.home` system property.

`c:\jdk1.7.0\jre\bin`

Executable files and DLLs for tools and libraries used by the Java platform. The executable files are identical to files in `/jdk1.7.0/bin`. The `java` launcher tool serves as an application launcher (and replaced the old `jre` tool that shipped with 1.1 versions of the JDK). This directory does not need to be in the `PATH` environment variable.

`c:\jdk1.7.0\jre\bin\client`

包含用于“HotSpot客户端”的DLL文件

该目录无需添加到PATH环境变量中

Contains the DLL files used by the Java HotSpot™ Client Virtual Machine.

`c:\jdk1.7.0\jre\bin\server`

包含用于“HotSpot服务端”的DLL文件

Contains the DLL files used by the Java HotSpot™ Server Virtual Machine.

`c:\jdk1.7.0\jre\lib`

用于“Java运行环境”的代码包、属性设置和资源文件

Code libraries, property settings, and resource files used by the Java runtime environment. For example:

- `rt.jar`: Bootstrap classes (the RunTime classes that comprise the Java platform's core API) 引导类
- `charsets.jar`: Character conversion classes
- `jfxrt.jar`: JavaFX runtime libraries

Aside from the `ext` subdirectory (described below) there are several additional resource subdirectories not described here.

`c:\jdk1.7.0\jre\lib\ext`

Default installation directory for [Extensions](#) to the Java platform.

- `localedata.jar` -- locale data for `java.text` and `java.util`.

`c:\jdk1.7.0\jre\lib\security`

安全管理：包括安全策略和安全属性文件

Contains files used for security management. These include the security policy (`java.policy`) and security properties (`java.security`) files.

`c:\jdk1.7.0\jre\lib\applet`

Jar files containing support classes for applets can be placed in the `lib/applet/` directory. This reduces startup time for large applets by allowing applet classes to be pre-loaded from the local file system by the applet class loader, providing the same protections as if they had been downloaded over the net.

`c:\jdk1.7.0\jre\lib\fonts`

Contains TrueType font files for use by the platform.

Additional Files and Directories

This section describes additional files and directories.

`c:\jdk1.7.0\src.zip` Java平台的源代码

Archive containing source code for the Java platform.

`c:\jdk1.7.0\db`

Contains [Java DB](#).

`c:\jdk1.7.0\include` C语言头文件

C-language header files that support native-code programming using the [Java Native Interface](#) and the [Java Virtual Machine Debugger Interface](#).

Note: Demos and samples that show you how to program for the Java platform are available as a separate download at [Java SE Downloads](#). These demos and samples are available as [.zip files](#).