



JDK Troubleshooting Guide

故障排除指南

[Java SE 7 Documentation](#)

The Java Platform, Standard Edition Development Kit (JDK) allows the development and deployment of a large variety of complex applications. **This document** contains information and pointers to **help you troubleshoot problems you encounter with your applications**.

帮助你解决应用中遇到的问题

Contents

[Quick Tips](#)

[Tools](#)

[Guides](#)

[Articles](#)

[Blogs](#)

[Forums](#)

Quick Tips 技巧

典型的故障诊断需求

For a few quick tips, consult these tables of typical troubleshooting needs, with corresponding commands, by platform.

- [Tips on Solaris OS and Linux](#)
- [Tips on Windows](#)

Another resource is the [Summary of Tools, Options, and Commands](#) section in the *Troubleshooting Guide for HotSpot VM*.

For JSSE troubleshooting related to TLS, SSL, or HTTPS connections, consult the [Debugging Utilities section of the JSSE Reference Guide](#).

[Back to top](#)

Tools 工具集

JDK 故障诊断工具集概述

The following documents are summaries of JDK troubleshooting tools, including links to man pages. **Note** that these tools are unsupported and experimental in nature, and they might not be available in future JDK versions.

- [Tools on Solaris OS and Linux](#)
- [Tools on Windows](#)

[Back to top](#)

Guides 指南

帮助你诊断并解决Java应用中发生的问题

Two separate troubleshooting guides are available to help you diagnose and solve problems that occur in Java applications.

- [Troubleshooting Guide for HotSpot VM](#) 虚拟机
 - For help with problems that occur between the application and the Java HotSpot

virtual machine.

- Describes the [troubleshooting tools](#), how to develop your own tools using the APIs provided with the platform, several suggested troubleshooting procedures, how to submit bug reports, and detailed reference information.
- Document last updated May 2011
- [Troubleshooting Guide for Java SE Desktop Technologies](#)
 - For help with problems that occur with a Java desktop application.
 - Describes common issues which can occur with Java SE desktop technologies, such as Swing, AWT, Java 2D, and so forth, as well as suggestions for troubleshooting these issues.
 - Document last updated May 2011

[Back to top](#)

Articles 文章

VisualVM 概述

- [Introduction to Java VisualVM](#) - [Overview of Java VisualVM](#), the all-in-one [graphical and extensible troubleshooting tool](#).
- [Profiling With VisualVM, Part 1](#) - [How to use the out-of-the-box profiling features](#) of Java VisualVM.
- [Profiling With VisualVM, Part 2](#) - [How to use the advanced profiling features](#) of Java VisualVM.
- [Troubleshooting Java SE Deployment](#) by Chuk-Munn Lee - Several ways to troubleshoot running Java SE applications, with examples.
- [Monitor and diagnose performance in Java SE 6](#) by Cathy Kegley and Greg Roberts - [Take advantage of performance and monitoring enhancements in the Java platform](#).
- [Monitoring and Managing Java SE 6 Platform Applications](#) by Mandy Chung - [How to use several monitoring and management tools to troubleshoot common problems with Java SE applications](#).

[Back to top](#)

Blogs 博客

- [Planet JDK](#) is an aggregation of JDK developers' blogs.
- [Alan Bateman's blog](#):
 - [Demos of monitoring & management and heapViewer](#)
 - [Easy starting \(attach-on-demand\) with JConsole](#)
- [Daniel Fuchs' blog](#): JConsole, JMX, etc.
- [Kelly O'Hair's blog](#): jhat utility, HPROF tool
- [Eamonn McManus' blog](#): JConsole and MBeans
- [The NetBeans Profiler blog](#): Includes NetBeans Profiler and Java VisualVM
- [Luis-Miguel Alventosa's blog](#): Changes to JConsole GUI in Java SE 7
- [Jean-Francois Arcand's blog](#): Using jmap and jhat to troubleshoot [memory leak](#)
- [Mandy Chung's blog](#):
 - [Java VisualVM Screencast](#)
 - [Summary of new features in Java SE 7 for Monitoring, Management, Diagnosability](#)
- [Danny Coward's blog](#): Crash Course: Java SE Monitoring, Management, and Troubleshooting
- [Frank Kieviet's blog](#): "[OutOfMemoryError: PermGen space](#)" exception
- [Keith McGuigan's blog](#): Description of DTrace probe providers hotspot and hotspot_jni
- [A. Sundararajan's \(Sundar\) blog](#):
 - Serviceability Agent, command-line arguments, creating binary heap dumps, using DTrace, JConsole, all troubleshooting tools
 - [viewing heap histogram](#)
 - [Querying Java heap with OQL \(Object Query Language\)](#)
 - [Perm gen analysis with OQL](#)
 - [irunscript, heapViewer demo, attach-on-demand API](#)

[Back to top](#)

Forums

Visit the various forum sites, where you can browse for information and post your own questions. Perhaps someone else has already encountered your problem! Use the [Search](#) facility on the forum site to specify your problem area.

This is a very brief list of pointers to the high-level entries into some of these sites.

- [OTN Discussion Forums : Java](#), including categories (among many others) such as:
 - [Monitoring, Management, Debugging, and Profiling APIs](#)
 - [Java Desktop Applications](#)
 - [Java Errors and Error Handling](#)
 - [Java Virtual Machine \(JVM\)](#)
- [java.net Forums](#), including categories (among many others) such as:
 - [JDK](#)
 - [Java Desktop](#)
 - [Performance](#)
 - [Java Tools](#)
- [Java-Gaming.org](#): various Java SE game technologies

[Back to top](#)

Page last updated: June 2011