

Tools - Java VisualVM

Purpose

Java VisualVM allows to examine all Java applications running and detect memory leaks and CPU profiling. It can display for each application:

- the JVM used
- the JVM arguments
- all threads and their call stacks
- CPU
- memory
- number of classes

Java VisualVM is the equivalent to ADPlus for Java.

This page will help you with the following

- [Installing Java VisualVM](#)
- [Creating a thread dump](#)
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Details

Installing Java VisualVM

This tool is provided with the Java Development Kit (**JDK**)
In order to be able to monitor a JVM, the JDK version must equal or higher than the JVM version.
So to dump CAST-MS, JDK must be at least at version **6.0.15**
JDK download can be found at this location <http://java.sun.com/javase/downloads/index.jsp>

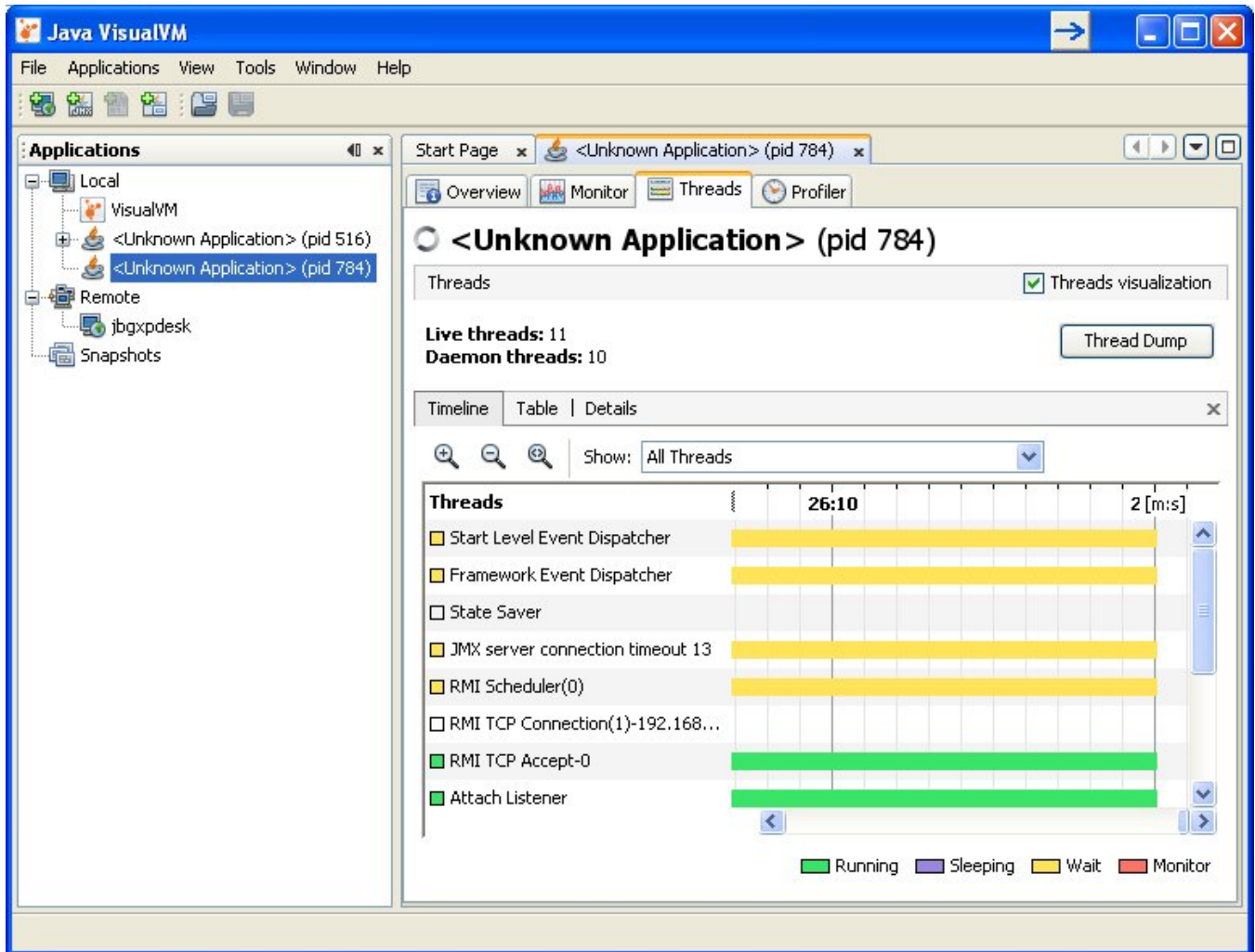
The tool is located in the "**bin**" subfolder of the JDK
For example

```
C:\Program Files\Java\jdk1.6.0_15\bin\jvisualvm.exe
```

Creating a thread dump

If the Java application hangs, you may create a thread dump

1. Open jvisualvm.exe
2. Locate your Application
If the tool cannot display the application name (<Unknown Application>), you can open the Task Manager to get the Process Id (**pid**) or use the **Java Home** property in "**Overview**" tab
3. Select the "**Threads**" tab
4. Click on button "**Thread Dump**"



Analyzing the thread dump

It contains the call stacks of all running threads
 If there is a **deadlock**, it is mentioned at the end of the report

Notes / Comments

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