NAME

jhsdb − attach to a Java process or launch a postmortem debugger to analyze the content of a core dump from a crashed Java Virtual Machine (JVM)

SYNOPSIS

jhsdb clhsdb [**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump*]

jhsdb hsdb [**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump*]

jhsdb debugd (**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump*) [*options*]

jhsdb jstack (**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump* | **−−connect** *[server−id@]de-bugd−host*) [*options*]

jhsdb jmap (**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump* | **−−connect** *[server−id@]de-bugd−host*) [*options*]

jhsdb jinfo (**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump* | **−−connect** *[server−id@]de-bugd−host*) [*options*]

jhsdb jsnap (**−−pid** *pid* | **−−exe** *executable* **−−core** *coredump* | **−−connect** *[server−id@]de-bugd−host*) [*options*]

pid   The process ID to which the **jhsdb** tool should attach. The process must be a Java process. To get a list of Java processes running on a machine, use the **ps** command or, if the JVM processes are not running in a separate docker instance, the **jps** command.

executable

The Java executable file from which the core dump was produced.

coredump

The core file to which the **jhsdb** tool should attach.

[server−id@]debugd−host

An optional server ID and the address of the remote debug server (debugd).

options The command−line options for a **jhsdb** mode. See **Options for the debugd Mode**, **Options for the jstack Mode**, **Options for the jmap Mode**, **Options for the jinfo Mode**, and **Options for the jsnap Mode**.

Note:

Either the *pid* or the pair of *executable* and *core* files or the *[server−id@]debugd−host* must be provided for **debugd**, **jstack**, **jmap**, **jinfo** and **jsnap** modes.

DESCRIPTION

You can use the **jhsdb** tool to attach to a Java process or to launch a postmortem debugger to analyze the content of a core−dump from a crashed Java Virtual Machine (JVM). This command is experimental and unsupported.

Note:

Attaching the **jhsdb** tool to a live process will cause the process to hang and the process will probably crash when the debugger detaches.

The **jhsdb** tool can be launched in any one of the following modes:

jhsdb clhsdb

Starts the interactive command−line debugger.

jhsdb hsdb

Starts the interactive GUI debugger.

jhsdb debugd

Starts the remote debug server.

jhsdb jstack
   Prints stack and locks information.

jhsdb jmap
   Prints heap information.

jhsdb jinfo
   Prints basic JVM information.

jhsdb jsnap
   Prints performance counter information.

jhsdb *command* **--help**
   Displays the options available for the *command*.

OPTIONS FOR THE DEBUGD MODE

--serverid *server−id*
   An optional unique ID for this debug server. This is required if multiple debug servers are run on the same machine.

--rmiport *port*
   Sets the port number to which the RMI connector is bound. If not specified a random available port is used.

--registryport *port*
   Sets the RMI registry port. This option overrides the system property 'sun.jvm.hotspot.rmi.port'. If not specified, the system property is used. If the system property is not set, the default port 1099 is used.

--hostname *hostname*
   Sets the hostname the RMI connector is bound. The value could be a hostname or an IPv4/IPv6 address. This option overrides the system property 'java.rmi.server.hostname'. If not specified, the system property is used. If the system property is not set, a system hostname is used.

OPTIONS FOR THE JINFO MODE

--flags
   Prints the VM flags.

--sysprops
   Prints the Java system properties.

no option
   Prints the VM flags and the Java system properties.

OPTIONS FOR THE JMAP MODE

no option
   Prints the same information as Solaris **pmap**.

--heap
   Prints the **java** heap summary.

--binaryheap
   Dumps the **java** heap in **hprof** binary format.

--dumpfile *name*
   The name of the dumpfile.

--histo
   Prints the histogram of **java** object heap.

--clstats
   Prints the class loader statistics.

--finalizerinfo
> Prints the information on objects awaiting finalization.

OPTIONS FOR THE JSTACK MODE

--locks
> Prints the **java.util.concurrent** locks information.

--mixed
> Attempts to print both **java** and native frames if the platform allows it.

OPTIONS FOR THE JSNAP MODE

--all Prints all performance counters.