

Name generate-jvm-report – shows the JVM machine statistics for a given target instance

Synopsis generate-jvm-report [`--help`] [`--type=jvm-statistic-type`] [`--target target`]

Description The `generate-jvm-report` subcommand creates a report that shows the threads (dump of stack trace), classes, memory, or loggers for a given target instance, including the domain administration server (DAS). If a type is not specified, a summary report is generated. This subcommand only provides statistics for the Enterprise Server instance processes. This subcommand provides an alternative to sending `Ctrl+Break` or `kill -3` signals to Enterprise Server processes to obtain a stack trace for processes that are hanging.

The information in the report is obtained from managed beans (MBeans) and MXBeans that are provided in the Java™ Platform, Standard Edition (Java SE) or JDK™ software with which Enterprise Server is being used.

If Enterprise Server is running in the Java Runtime Environment (JRE™) software from JDK release 6 or Java SE 6, additional information is provided. For example:

- System load on the available processors
- Object monitors that are currently held or requested by a thread
- Lock objects that a thread is holding, for example, `ReentrantLock` objects and `ReentrantReadWriteLock` objects

If the JRE software cannot provide this information, the report contains the text `NOT_AVAILABLE`.

This subcommand is supported in remote mode only.

Options `--help`

`--?`

Displays the help text for the subcommand.

`--target`

Do not specify this option. This option is retained for compatibility with other releases. If you specify this option, a syntax error does not occur. Instead, the subcommand runs successfully and the option is silently ignored.

`--type`

The type of report that is to be generated. Default is `summary`.

`summary`

Displays summary information about the threads, classes, and memory (default).

`memory`

Provides information about heap and non-heap memory consumption, memory pools, and garbage collection statistics for a given target instance.

`class`

Provides information about the class loader for a given target instance.

thread

Provides information about threads running and the thread dump (stack trace) for a given target instance.

log

Provides information about the loggers that are registered in the Virtual Machine for the Java platform (Java Virtual Machine or JVMTM machine).¹

Examples **EXAMPLE 1** Obtaining Summary Information for the JVM Machine

This example shows a partial listing of a report that is generated if no type is specified. This same report is generated if the summary type is specified.

```
asadmin> generate-jvm-report
Operating System Information:
Name of the Operating System: SunOS
Binary Architecture name of the Operating System: sparc, Version: 5.10
Number of processors available on the Operating System: 32
System load on the available processors for the last minute: 7.921875.
(Sum of running and queued runnable entities per minute)
General Java Runtime Environment Information for the VM: 64097@sr1-usca-22
...
sun.desktop = gnome
sun.io.unicode.encoding = UnicodeBig
sun.java.launcher = SUN_STANDARD
sun.jnu.encoding = ISO646-US
sun.management.compiler = HotSpot Client Compiler
sun.os.patch.level = unknown
user.dir = /home/thisuser/GlassFish/glassfishv3/glassfish/domains/mydomain4/config
user.home = /home/thisuser
user.language = en
user.name = thisuser
user.timezone = US/Pacific
Command generate-jvm-report executed successfully
```

EXAMPLE 2 Obtaining Information for a Particular JVM Machine Type

This example generates a report that shows information on the class loader.

```
asadmin> generate-jvm-report --type=class
Class loading and unloading in the Java Virtual Machine:
Number of classes currently loaded in the Java Virtual Machine: 3,781
Number of classes loaded in the Java Virtual Machine since the startup: 3,868
Number of classes unloaded from the Java Virtual Machine: 87
Just-in-time (JIT) compilation information in the Java Virtual Machine:
Java Virtual Machine compilation monitoring allowed: true
```

¹ The terms "Java Virtual Machine" and "JVM" mean a Virtual Machine for the Java platform.

EXAMPLE 2 Obtaining Information for a Particular JVM Machine Type *(Continued)*

Name of the Just-in-time (JIT) compiler: HotSpot Client Compiler
Total time spent in compilation: 0 Hours 0 Minutes 4 Seconds
Command generate-jvm-report executed successfully.

Exit Status 0 subcommand executed successfully
1 error in executing the subcommand

See Also [create-jvm-options\(1\)](#), [delete-jvm-options\(1\)](#), [list-jvm-options\(1\)](#)
[asadmin\(1M\)](#)