

# WebSphere Ver 6.0: CONFIGURE HEAP SIZE

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Go into administrative console, click Servers > Application Servers > server > in the Server Infrastructure section, click Java and Process Management > Process Definition > Java Virtual Machine

**BESTPRAC:** For performance analysis, the initial and maximum heap sizes should be equal.

The Initial heap size setting specifies, in megabytes, the amount of storage that is allocated for the JVM heap when the JVM starts. The Maximum heap size setting specifies, in megabytes, the maximum amount of storage that can be allocated to the JVM heap. Both of these settings have a significant effect on performance.

When tuning a production system where the working set size of the Java application is not understood, a good starting value for the initial heap size is 25% of the maximum heap size. The JVM then tries to adapt the size of the heap to the working set size of the application.

## Server Infrastructure

- [-] Java and Process Management
  - Class loader
  - Process Definition
  - Process Execution
- [+] Administration

Application servers > server1 > Process Definition > Java Virtual Machine

Advanced Java virtual machine settings.

Configuration

## General Properties

Classpath

Boot Classpath

- ☐ Verbose class loading
- ☒ Verbose garbage collection
- ☐ Verbose JNI

Initial Heap Size

Maximum Heap Size

Click Apply or OK >  
Save your changes to the master  
configuration >  
Stop and restart the application  
server

Click on Apply > Save. Restart this instance of the server.

## Reference:

### Tuning Java virtual machines

[http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/com.ibm.websphere.nd.doc/info/ae/ae/tpvf\\_tunejvm\\_v61.html](http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/com.ibm.websphere.nd.doc/info/ae/ae/tpvf_tunejvm_v61.html)