IBM Systems - iSeries
Developer Kit for Java Commands

Version 5 Release 4
Note

Before using this information and the product it supports, be sure to read the information in "Notices," on page 17.
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Run Java Program (JAVA)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Run Java Program (JAVA) command runs the Java program associated with the specified Java class. If no Java program exists, one is created and associated with the class file.

This command can operate on files in any file system that supports the integrated file system APIs.

### Parameters

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<td>*Path name</td>
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</tr>
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<td>*Character value, *NONE</td>
<td></td>
</tr>
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<td>Garbage collect initial size</td>
<td>256-2400000000, *DFT</td>
<td>Optional</td>
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<td>Optional</td>
</tr>
<tr>
<td>GCFRQ</td>
<td>Garbage collection frequency</td>
<td>0-100, 50</td>
<td>Optional</td>
</tr>
<tr>
<td>GCPTY</td>
<td>Garbage collection priority</td>
<td>20, 10, 30</td>
<td>Optional</td>
</tr>
<tr>
<td>JOB</td>
<td>Job name</td>
<td>*Name, *QIVACMDSRV, *GEN</td>
<td>Optional</td>
</tr>
<tr>
<td>AGTPGM</td>
<td>Agent program</td>
<td>Single values: *NONE Other values: *Qualified object name</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Qualifier 1: Agent program</td>
<td>*Name</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Qualifier 2: Library</td>
<td>Name, *LIBL, *CURLIB</td>
<td></td>
</tr>
<tr>
<td>AGTOPTIONS</td>
<td>Agent options</td>
<td>*Character value, *NONE</td>
<td>Optional</td>
</tr>
<tr>
<td>OUTPUT</td>
<td>Output</td>
<td>Single values: *PRINT, *NONE Other values: *Element list</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Element 1: Destination</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Element 2: Program end action</td>
<td>*PAUSE, *CONTINUE</td>
<td></td>
</tr>
</tbody>
</table>

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Class file or JAR file (CLASS)

Specifies the class name or jar file to be run. The class name may be qualified by one or more package names. Each package name must be followed by a period. For example, CLASS('pkg1.pkg2.myclass') identifies a class qualified by two package names.

A jar file name may be specified only when running JDK 1.2 or higher. The start up class must be indicated by the Main-Class in the manifest header.

- **class-name**: Specify the name of the class to be run.
- **jar-name**: Specify the name of the jar file with the Main-Class specified in the manifest.

*VERSION

The build version information for the Java Development Kit (JDK) and the Java Virtual Machine (JVM) is displayed. No Java program is run.

Parameters (PARM)

Specifies one or more parameter values that are passed to the Java program. A maximum of 200 parameter values can be passed.

- **NONE**: There are no input parameters to the Java program.

- **parameter-value**: Specify the parameter value to be passed to the Java program.

Classpath (CLASSPATH)

Specifies the path used to locate classes. Directories are separated by colons.

- **ENVV AR**: The class path is determined by the environment variable CLASSPATH.

- **class-path**: Path used to locate classes. An example class path is '/directory1/directory2:/QIBM/ProdData/Java400'.

Classpath security check level (CHKPATH)

Specifies the level of warnings given for directories in the CLASSPATH that have public write authority. A directory in the CLASSPATH that has public write authority is a security exposure because it may contain a class file with the same name as the one you want to run. Whichever class file is found first is run.

- **WARN**: A warning message is sent for each directory in the CLASSPATH that has public write authority.
*SECURE
A warning message is sent for each directory in the CLASSPATH that has public write authority. If one or more warning messages are sent, an escape message is sent and the Java program is not run.

*IGNORE
Ignore the fact that directories in the CLASSPATH may have public write authority. No warnings messages are sent.

Optimization (OPTIMIZE)

Specifies how to treat class files if no Java program is associated with the file.

For 10,20,30,40 this specifies the optimization level of the Java program which will be created if no Java program is associated with the Java class file. The Java program will contain machine instruction sequences that are run when the Java program is invoked and will remain associated with the class file after the Java program has been run.

If the Java class file is determined to be downlevel or out of date, a new Java program will be created using the optimization level that was used when the previous Java program was created, instead of the value specified for this parameter.

For OPTIMIZE(*INTERPRET), the resulting Java program interprets the class byte codes when invoked.

OPTIMIZE(*INTERPRET) Java programs will be smaller but will run slower than Java programs created with higher optimization levels. As you increase the optimization level beyond 10, the Java program performance will generally improve, but the time required to create the Java program will increase and you will have less ability to debug the Java program.

For OPTIMIZE(*JIT), no Java program containing machine instruction sequences is created if no program is associated with the class file. Rather, the class is run using the Just In Time compiler (JIT).

*JIT No Java program containing machine instruction sequences is created. The class is run using the Just In Time compiler (JIT).

*INTERPRET
The Java program created does not contain machine specific instructions. It will be interpreted when the program is started. Variables can be displayed and modified while debugging.

If *OPTIMIZE is specified for the Interpret (INTERPRET) parameter, all of the classes that run will be run interpreted even if there is an optimized Java program associated with the class.

10 The Java program contains a compiled version of the class file byte codes and has only minimal additional compiler optimization. Variables can be displayed and modified while debugging.

20 The Java program contains a compiled version of the class file byte codes and has some additional compiler optimization. Variables can be displayed but not modified while debugging.

30 The Java program contains a compiled version of the class file byte codes and has more compiler optimization than optimization level 20. During a debug session, user variables cannot be changed, but can be displayed. The presented values may not be the current values of the variables.

40 The Java program contains a compiled version of the class file byte codes and has more compiler optimization than optimization level 30. All call and instruction tracing is disabled.
Interpret (INTERPRET)

Specifies how the Java class files should be run.

*OPTIMIZE

Whether all Java classes are run interpretively depends on the value specified for the OPTIMIZE parameter. If OPTIMIZE(*INTERPRET) was specified, all Java classes will be run interpretively. If any other value was specified for the OPTIMIZE parameter, only Java classes with Java programs created using CRTJVAPGM command and specifying OPTIMIZE(*INTERPRET) will be run interpretively.

*YES  All Java classes will be run interpretively regardless of the OPTIMIZE value associated Java program. Java classes that need a Java program created will use the optimization level specified in the OPTIMIZE parameter.

*NO   Only Java classes with Java programs created using CRTJVAPGM command and specifying OPTIMIZE(*INTERPRET) will be run interpretively. Java classes that need a Java program created will be created with the optimization level specified in the OPTIMIZE parameter.

*JIT  All Java class files will be run using the Just In Time compiler (JIT), regardless of what OPTIMIZE value was used when the associated Java program was created.

Properties (PROP)

Specifies a list of values to assign to Java properties. Up to 100 properties can have a value assigned.

Single values

*NONE

No properties are specified.

Element 1: Property name

property-name

Specify the name of the property to be changed.

Element 2: Property value

property-value

Specify the value to be assigned to the property.

Garbage collect initial size (GCHINL)

Specifies the initial size, in kilobytes, of the garbage collection heap. This is used to prevent garbage collection from starting on small programs.

*DFT  The default initial size is 16384 kilobytes unless it is overridden by a property.

256-240000000

Specify the initial size, in kilobytes, of the garbage collection heap. It is recommended that the initial heap size be set to 16384 kilobytes (the default) or larger.
Garbage collect maximum size (GCHMAX)

Specifies the maximum size, in kilobytes, that the garbage collection heap can grow to. This is used to prevent runaway programs that consume all of the available storage. Normally, garbage collection runs as an asynchronous thread in parallel with other threads. If the maximum size is reached, all other threads are stopped while garbage collection takes place. This may adversely affect performance.

*DFT  The default for the parameter is used. The default maximum is determined by the system unless a property is specified. The heap will grow until all system resources are depleted. Then a synchronous garbage collection is started to reclaim resources no longer in use.

*NOMAX
The maximum size is not specified by the user. The maximum is determined by the system. The heap will grow until all system resources are depleted. Then a synchronous garbage collection is started to reclaim resources no longer in use.

256-240000000
Specify the size, in kilobytes, that the garbage collection heap can grow to.

Garbage collection frequency (GCFRQ)

Specifies the relative frequency that garbage collection runs.

This parameter is no longer supported. It exists solely for compatibility with the releases earlier than Version 4 Release 3 Modification 0 of the server.

Garbage collection priority (GCPTY)

Specifies the priority of the tasks running garbage collection.

This parameter is no longer supported. It exists solely for compatibility with the releases earlier than Version 4 Release 3 Modification 0 of the server.

Option (OPTION)

Specifies special options used when running the Java class.

*NONE
No special options are used when running the Java class.

*VERBOSE
A message is displayed each time a class file is loaded.

*DEBUG
Allows the system debugger to be used for this Java program. This value cannot be used with the JIT compiler. That is, *DEBUG is mutually exclusive with INTERPRET(*JIT). Also, *DEBUG cannot be used when a JAR file is specified for the CLASS keyword.

*VERBOSEGC
A message is displayed for each garbage collection sweep.
*NOCLASSGC

Unused classes are not reclaimed when garbage collection is run.

---

**Job name (JOB)**

Specifies the name that is associated with the batch immediate (BCI) job that is started when this command is run. The BCI job is where the Java program will be run.

**QJVACMDSRV**

The job name for the BCI job will be QJVACMDSRV.

**GEN**

The job name is generated from the class name.

**name**

Specify the name to be used for the BCI job that is used to run the Java program.

---

**Agent program (AGTPGM)**

Specifies an ILE service program or i5/OS PASE program that contains a virtual machine (VM) agent. For example, a VM agent can be a remote debugger or profiler. The VM loads the agent program and looks for the entry point:

```c
jint JNI_FIELD JVM_OnLoad(JavaVM *jvm, char *options, void *reserved);
```

The VM calls the JVM_OnLoad function, passing a pointer to the JavaVM instance as the first argument, and the character string specified in the AGTOPTIONS parameter as the second argument. The third argument to JVM_OnLoad is reserved and set to NULL.

**Single values**

**NONE**

No VM agent program is specified.

**Qualifier 1: Agent program**

**name**

Specify the name of the VM agent program.

**Qualifier 2: Library**

**LIBL**

All libraries in the library list for the current thread are searched until the first match is found. If the VM agent is an i5/OS PASE program, the directories contained in the LIBPATH and PASE_LIBPATH environment variables are used to locate the program.

**CURLIB**

The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

**name**

Specify the name of the library to be searched.

---

**Agent options (AGTOPTIONS)**

Specifies a character string of the virtual machine (VM) agent options. A pointer to this character string will be passed as the second argument to the JVM_OnLoad function in the VM agent program specified in the AGTPGM parameter. The format of the options string is determined by the agent program.
*NONE

No options are specified. A NULL options argument will be passed to the JVM_OnLoad function.

character-value

Specify the options string to be passed to the VM agent program on start-up.

Output (OUTPUT)

Specifies where output from the Java program should be sent and, if output is directed to the Java shell display, whether the shell display panel should go away when the Java program ends.

Single values

*PRINT

The Java program output is sent to a spooled file through the QPRINT printer device file.

*NONE

The Java program output is discarded.

Element 1: Destination

*                  A Java shell display panel will be used to display output if the Java program is run from an interactive job. If the Java program is run in a batch job, the Java program output is sent to a spooled file through the QPRINT printer device file.

Element 2: Program end action

*PAUSE

The Java shell display panel is shown until the F3, F12, or Enter key is pressed.

*CONTINUE

The Java shell display panel is closed (goes away) when the Java program ends.

Examples

Example 1: Run a Java Program

JAVA CLASS('projectA.myJavaclassname')

This command will run the iSeries Java program associated with the class myJavaclassname. The job name of the batch immediate (BCI) job where the Java program will run will be QJVACMDSRV.

Example 2: Generate the Job Name for the Java Program

JAVA CLASS('projectA.myJavaclassname') JOB(*GEN)

This command will run the iSeries Java program associated with the class myJavaclassname. The job name of the batch immediate (BCI) job where the Java program will run will be MYJAVACLAS.

Error messages

*ESCAPE Messages
JVAB534
Unable to complete Java program "&1".

JVAB535
Unmonitored exception received.

JVAB537
Java shell already active in job.

JVAB538
Error occurred when running Java shell.

JVAB539
Unable to start system debugger.

JVAB53A
Unable to start Java shell, reason code &1.

JVAB53B
Java processing canceled.

JVAB53D
Java Development Kit could not be found.

JVAB546
Error detected while running java in batch mode.
Run Java Program (RUNJVA)

Where allowed to run: All environments (*ALL)
Threadsafe: No

The Run Java Program (JAVA) command runs the Java program associated with the specified Java class. If no Java program exists, one is created and associated with the class file.

This command can operate on files in any file system that supports the integrated file system APIs.

### Parameters

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<th>Choices</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
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<td>CLASS</td>
<td>Class file or JAR file</td>
<td>Path name, *VERSION</td>
<td>Required, Positional 1</td>
</tr>
<tr>
<td>PARM</td>
<td>Parameters</td>
<td>Single values: *NONE</td>
<td>Optional, Positional 2</td>
</tr>
<tr>
<td></td>
<td>Other values (up to 200 repetitions): Character value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLASSPATH</td>
<td>Classpath</td>
<td>Path name, *ENVVAR</td>
<td>Optional</td>
</tr>
<tr>
<td>CHKPATH</td>
<td>Classpath security check level</td>
<td>*WARN, *SECURE, *IGNORE</td>
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<td>OPTIMIZE</td>
<td>Optimization</td>
<td>*JIT, *INTERPRET, 10, 20, 30, 40</td>
<td>Optional</td>
</tr>
<tr>
<td>INTERPRET</td>
<td>Interpret</td>
<td>*OPTIMIZE, *YES, *NO, *JIT</td>
<td>Optional</td>
</tr>
<tr>
<td>PROP</td>
<td>Properties</td>
<td>Single values: *NONE</td>
<td>Optional</td>
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<td>Other values (up to 100 repetitions): Element list</td>
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<td>GCHINL</td>
<td>Garbage collect initial size</td>
<td>256-240000000, *DFT</td>
<td>Optional</td>
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<tr>
<td>GCHMAX</td>
<td>Garbage collect maximum size</td>
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<td>Optional</td>
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<td>GCFRQ</td>
<td>Garbage collection frequency</td>
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<td>GCPTY</td>
<td>Garbage collection priority</td>
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<td>JOB</td>
<td>Job name</td>
<td>Name, QIVACMDSRV, *GEN</td>
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<td>AGTPGM</td>
<td>Agent program</td>
<td>Single values: *NONE</td>
<td>Optional</td>
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<td></td>
<td>Other values: Qualified object name</td>
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<td></td>
</tr>
<tr>
<td>Qualifier 1: Agent program</td>
<td>Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qualifier 2: Library</td>
<td>Name, *LIBL, *CURLIB</td>
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<td></td>
</tr>
<tr>
<td>AGTOPTIONS</td>
<td>Agent options</td>
<td>Character value, *NONE</td>
<td>Optional</td>
</tr>
<tr>
<td>OUTPUT</td>
<td>Output</td>
<td>Single values: *PRINT, *NONE</td>
<td>Optional</td>
</tr>
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<td></td>
<td>Other values: Element list</td>
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<tr>
<td></td>
<td>Element 1: Destination</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Element 2: Program end action</td>
<td>*PAUSE, *CONTINUE</td>
<td></td>
</tr>
</tbody>
</table>

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Class file or JAR file (CLASS)

Specifies the class name or jar file to be run. The class name may be qualified by one or more package names. Each package name must be followed by a period. For example, CLASS('pkg1.pkg2.myclass') identifies a class qualified by two package names.

A jar file name may be specified only when running JDK 1.2 or higher. The start up class must be indicated by the Main-Class in the manifest header.

class-name
    Specify the name of the class to be run.

jar-name
    Specify the name of the jar file with the Main-Class specified in the manifest.

*VERSION
    The build version information for the Java Development Kit (JDK) and the Java Virtual Machine (JVM) is displayed. No Java program is run.

Parameters (PARM)

Specifies one or more parameter values that are passed to the Java program. A maximum of 200 parameter values can be passed.

*NONE
    There are no input parameters to the Java program.

parameter-value
    Specify the parameter value to be passed to the Java program.

Classpath (CLASSPATH)

Specifies the path used to locate classes. Directories are separated by colons.

*ENVVAR
    The class path is determined by the environment variable CLASSPATH.

class-path
    Path used to locate classes. An example class path is
    '/directory1/directory2:/QIBM/ProdData/Java400'.

Classpath security check level (CHKPATH)

Specifies the level of warnings given for directories in the CLASSPATH that have public write authority. A directory in the CLASSPATH that has public write authority is a security exposure because it may contain a class file with the same name as the one you want to run. Whichever class file is found first is run.

*WARN
    A warning message is sent for each directory in the CLASSPATH that has public write authority.
*SECURE
A warning message is sent for each directory in the CLASSPATH that has public write authority. If one or more warning messages are sent, an escape message is sent and the Java program is not run.

*IGNORE
Ignore the fact that directories in the CLASSPATH may have public write authority. No warnings messages are sent.

---

**Optimization (OPTIMIZE)**

Specifies how to treat class files if no Java program is associated with the file.

For 10,20,30,40 this specifies the optimization level of the Java program which will be created if no Java program is associated with the Java class file. The Java program will contain machine instruction sequences that are run when the Java program is invoked and will remain associated with the class file after the Java program has been run.

If the Java class file is determined to be downlevel or out of date, a new Java program will be created using the optimization level that was used when the previous Java program was created, instead of the value specified for this parameter.

For OPTIMIZE(*INTERPRET), the resulting Java program interprets the class byte codes when invoked.

OPTIMIZE(*INTERPRET) Java programs will be smaller but will run slower than Java programs created with higher optimization levels. As you increase the optimization level beyond 10, the Java program performance will generally improve, but the time required to create the Java program will increase and you will have less ability to debug the Java program.

For OPTIMIZE(*JIT), no Java program containing machine instruction sequences is created if no program is associated with the class file. Rather, the class is run using the Just In Time compiler (JIT).

*JIT
No Java program containing machine instruction sequences is created. The class is run using the Just In Time compiler (JIT).

*INTERPRET
The Java program created does not contain machine specific instructions. It will be interpreted when the program is started. Variables can be displayed and modified while debugging.

If *OPTIMIZE is specified for the **Interpret (INTERPRET)** parameter, all of the classes that run will be run interpreted even if there is an optimized Java program associated with the class.

10 The Java program contains a compiled version of the class file byte codes and has only minimal additional compiler optimization. Variables can be displayed and modified while debugging.

20 The Java program contains a compiled version of the class file byte codes and has some additional compiler optimization. Variables can be displayed but not modified while debugging.

30 The Java program contains a compiled version of the class file byte codes and has more compiler optimization than optimization level 20. During a debug session, user variables cannot be changed, but can be displayed. The presented values may not be the current values of the variables.

40 The Java program contains a compiled version of the class file byte codes and has more compiler optimization than optimization level 30. All call and instruction tracing is disabled.
Interpret (INTERPRET)

Specifies how the Java class files should be run.

*OPTIMIZE

Whether all Java classes are run interpretively depends on the value specified for the OPTIMIZE parameter. If OPTIMIZE(*INTERPRET) was specified, all Java classes will be run interpretively. If any other value was specified for the OPTIMIZE parameter, only Java classes with Java programs created using CRTJVAPGM command and specifying OPTIMIZE(*INTERPRET) will be run interpretively.

*YES All Java classes will be run interpretively regardless of the OPTIMIZE value associated Java program. Java classes that need a Java program created will use the optimization level specified in the OPTIMIZE parameter.

*NO Only Java classes with Java programs created using CRTJVAPGM command and specifying OPTIMIZE(*INTERPRET) will be run interpretively. Java classes that need a Java program created will be created with the optimization level specified in the OPTIMIZE parameter.

*JIT All Java class files will be run using the Just In Time compiler (JIT), regardless of what OPTIMIZE value was used when the associated Java program was created.

Properties (PROP)

Specifies a list of values to assign to Java properties. Up to 100 properties can have a value assigned.

Single values

*NONE No properties are specified.

Element 1: Property name

property-name

Specify the name of the property to be changed.

Element 2: Property value

property-value

Specify the value to be assigned to the property.

Garbage collect initial size (GCHINL)

Specifies the initial size, in kilobytes, of the garbage collection heap. This is used to prevent garbage collection from starting on small programs.

*DFT The default initial size is 16384 kilobytes unless it is overridden by a property.

256-240000000

Specify the initial size, in kilobytes, of the garbage collection heap. It is recommended that the initial heap size be set to 16384 kilobytes (the default) or larger.
Garbage collect maximum size (GCHMAX)

Specifies the maximum size, in kilobytes, that the garbage collection heap can grow to. This is used to prevent runaway programs that consume all of the available storage. Normally, garbage collection runs as an asynchronous thread in parallel with other threads. If the maximum size is reached, all other threads are stopped while garbage collection takes place. This may adversely affect performance.

*DFT The default for the parameter is used. The default maximum is determined by the system unless a property is specified. The heap will grow until all system resources are depleted. Then a synchronous garbage collection is started to reclaim resources no longer in use.

*NOMAX

The maximum size is not specified by the user. The maximum is determined by the system. The heap will grow until all system resources are depleted. Then a synchronous garbage collection is started to reclaim resources no longer in use.

256-240000000

Specify the size, in kilobytes, that the garbage collection heap can grow to.

Garbage collection frequency (GCFRQ)

Specifies the relative frequency that garbage collection runs.

This parameter is no longer supported. It exists solely for compatibility with the releases earlier than Version 4 Release 3 Modification 0 of the server.

Garbage collection priority (GCPTY)

Specifies the priority of the tasks running garbage collection.

This parameter is no longer supported. It exists solely for compatibility with the releases earlier than Version 4 Release 3 Modification 0 of the server.

Option (OPTION)

Specifies special options used when running the Java class.

*NONE

No special options are used when running the Java class.

*VERBOSE

A message is displayed each time a class file is loaded.

*DEBUG

Allows the system debugger to be used for this Java program. This value cannot be used with the JIT compiler. That is, *DEBUG is mutually exclusive with INTERPRET(*JIT). Also, *DEBUG cannot be used when a JAR file is specified for the CLASS keyword.

*VERBOSEGRC

A message is displayed for each garbage collection sweep.
**NOCLASSGC**
Unused classes are not reclaimed when garbage collection is run.

---

**Job name (JOB)**
Specifies the name that is associated with the batch immediate (BCI) job that is started when this command is run. The BCI job is where the Java program will be run.

**QJVACMDSRV**
The job name for the BCI job will be QJVACMDSRV.

**GEN**
The job name is generated from the class name.

**name**
Specify the name to be used for the BCI job that is used to run the Java program.

---

**Agent program (AGTPGM)**
Specifies an ILE service program or i5/OS PASE program that contains a virtual machine (VM) agent. For example, a VM agent can be a remote debugger or profiler. The VM loads the agent program and looks for the entry point:

```c
jint JNI CALL JVM_OnLoad(JavaVM *jvm, char *options, void *reserved);
```

The VM calls the JVM_OnLoad function, passing a pointer to the JavaVM instance as the first argument, and the character string specified in the AGTOPTIONS parameter as the second argument. The third argument to JVM_OnLoad is reserved and set to NULL.

**Single values**

**NONE**
No VM agent program is specified.

**Qualifier 1: Agent program**

**name**
Specify the name of the VM agent program.

**Qualifier 2: Library**

**LIBL**
All libraries in the library list for the current thread are searched until the first match is found. If the VM agent is an i5/OS PASE program, the directories contained in the LIBPATH and PASE_LIBPATH environment variables are used to locate the program.

**CURLIB**
The current library for the thread is searched. If no library is specified as the current library for the thread, the QGPL library is searched.

**name**
Specify the name of the library to be searched.

---

**Agent options (AGTOPTIONS)**
Specifies a character string of the virtual machine (VM) agent options. A pointer to this character string will be passed as the second argument to the JVM_OnLoad function in the VM agent program specified in the AGTPGM parameter. The format of the options string is determined by the agent program.
*NONE
No options are specified. A NULL options argument will be passed to the JVM_OnLoad function.

class-value
Specify the options string to be passed to the VM agent program on start-up.

Output (OUTPUT)
Specifies where output from the Java program should be sent and, if output is directed to the Java shell display, whether the shell display panel should go away when the Java program ends.

Single values
*PRINT
The Java program output is sent to a spooled file through the QPRINT printer device file.

*NONE
The Java program output is discarded.

Element 1: Destination
* A Java shell display panel will be used to display output if the Java program is run from an interactive job. If the Java program is run in a batch job, the Java program output is sent to a spooled file through the QPRINT printer device file.

Element 2: Program end action
*PAUSE
The Java shell display panel is shown until the F3, F12, or Enter key is pressed.

*CONTINUE
The Java shell display panel is closed (goes away) when the Java program ends.

Examples

Example 1: Run a Java Program
JAVA CLASS('projectA.myJavaclassname')

This command will run the iSeries Java program associated with the class myJavaclassname. The job name of the batch immediate (BCI) job where the Java program will run will be QJVACMDSRV.

Example 2: Generate the Job Name for the Java Program
JAVA CLASS('projectA.myJavaclassname') JOB(*GEN)

This command will run the iSeries Java program associated with the class myJavaclassname. The job name of the batch immediate (BCI) job where the Java program will run will be MYJAVACLAS.

Error messages

*ESCAPE Messages
JVAB534
Unable to complete Java program "&1".

JVAB535
Unmonitored exception received.

JVAB537
Java shell already active in job.

JVAB538
Error occurred when running Java shell.

JVAB539
Unable to start system debugger.

JVAB53A
Unable to start Java shell, reason code &1.

JVAB53B
Java processing canceled.

JVAB53D
Java Development Kit could not be found.

JVAB546
Error detected while running java in batch mode.
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