Memory allocation

If you receive an error message saying your modeling tool is out of memory, the application does not have enough memory to operate. You can change the amount of allocated memory directly in the error message dialog or by changing modeling tool properties.

Memory allocation concept more as the Java heap size. To increase the amount of memory allocated for the product, simply increase the

Java heap size

Recommended amount of allocated memory

The amount of allocated memory (or Java heap size) should be set to less than the available physical RAM on your computer. To calculate the approximate amount of memory you should allocate, subtract the amount of memory taken by any other processes that will run concurrently with your modeling tool from the total amount of RAM in your computer. Otherwise, your JVM process will likely swap, and that will slow down the application.

Changing the amount of allocated memory

You can set the amount of memory allocated for your modeling tool either in the Environment Options dialog, in the modeling tool properties file, or in the Environment Variables dialog on your machine.

To change the amount of allocated memory in the Environment Options dialog

- 1. In the main menu of your modeling tool, go to Options > Environment. The Environment Options dialog opens.
- 2. Expand the General options group on the left side of the dialog, and select the Memory Settings category.
- 3. In the option specification area on the right side of the dialog, change the value of the Maximum Heap Size or Thread Stack Size option.

Low memory notification

allocated amount of memory is enough to work with your currently opened projects. Click Open Environment Options to open the Environment options

dialog where you can adjust memory settings.

To change the amount of allocated memory in the modeling tool properties file To enable/disable notifications about low memory

- 1. Go to <modeling tool installation directory>bin and open the modeling tool properties file.
- 2. In the JAVA_ARGS line, change the value of the -Xmx property. For example, change the -Xmx800M to -Xmx1066M.
 3. 3aGo and hour options > Display > Notify about low memory option
- 4. Restart your modeling tool.
 - O Set to true to show notifications about low memory.
- o Set to false to disable notifications about low memory. Also, this notification can be disabled, by clicking Do not show again option in To change the amount of allocated memory in the **Environment Variables** dialog on your machine the **Low memory** notification.
 - 1. Go to Control Panel > System and Security > System > Advanced system settings. The System Properties dialog opens.
 - 2. In the Advanced tab, click Environment Variables. The Environment Variables dialog opens.
 - 3. In the System variables section, do one of the following:
 - a. If the _JAVA_OPTIONS variable is not in the variables list, click New. New System Variable dialog opens.
 - b. If the JAVA OPTIONS variable is in the variables list, select it and click Edit, Edit System Variable dialog opens.
 - 4. Set Variable name to _JAVA_OPTIONS and Variable value to the desired memory amount, e.g. -Xmx1066M. Click OK.

Changing options via the Environment Variables dialog overrides specified options for all Java applications.

Related pages

- Improving performance
- **Background Task Manager**
- Memory monitor
- Active validation period