

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

Memory allocation for the product is the same 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

While working on the project, you can get the *Low memory* notification. This notification is triggered by the mechanism which tracks whether the allocated amount of memory is enough to work with your currently opened projects. Click *Open Environment Options* to open **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. Go to **Environment Options > Display > Notify about low memory option**.
3. Save and close the file.
4. Restart your modeling tool.
 - Set to *true* to show notifications about low memory.
 - 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](#)