

# MDI Modes – Make Mine a Single, With a Twist

rior to BBj® 9.0, when a BBj program used an MDI (Multiple Document Interface) window, all programs that were SCALLed by that program (the MDI master process) appeared in the same MDI window and all the SCALLed programs (the MDI child processes) terminated when the master process terminated. BBj 9.0 introduced new API methods and a new command line parameter that allows the program to control whether the child processes will display within the MDI window and whether the child processes will be terminated when the master process is terminated.

Now, the developer controls whether a BBj program that uses an MDI window displays all programs SCALLed by that program in the same MDI window and terminates all the SCALLed programs when the master process finishes. This article introduces this feature with how-to tips on making an MDI application into an SDI (Single Document Interface) anytime it is needed.



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### **Default MDI Mode Methods**

The new BBj 9.0 method BBjMDI::setDefaultMDIMode(), allows the program to control the behavior of all MDI child processes that are started after calling setDefaultMDIMode().

This method accepts three valid modes.

- 1. MDI the traditional mode in which all MDI children appear within the master MDI window and are terminated when the MDI master is terminated.
- SDI displays each MDI child using a BBjWindow that is free to be outside the master MDI window but the children will be terminated when the MDI master is terminated.
- 3. DETACHED causes the programs that are SCALLed by the MDI master to behave as though they had been launched as separate programs from the command line. They do not appear within the MDI master window, they will not be terminated when the MDI master is terminated, and they will not share the GroupNamespace of the MDI master; they are completely detached from the MDI master.

To call this new method, enter code such as:

mdi!=BBjAPI().getMDI()
mdi!.setDefaultMDIMode("SDI")

The corresponding method BBjMDI.getDefaultMDIMode() returns the current default MDI mode.

#### **The MDI Command Line Parameter**

When starting a new program from the command line, enter the new -MDI command line parameter to set the defaultMDIMode of the program. To start a program in "SDI" mode, use a command like the following:

BBJ -MDISDI program.src

# **Child Frame Mode Methods**

To start a new BBjSession using BBjCommandLineObject, set the MDI mode for the new BBjSession by calling setChildFrameMode() with one of the string values MDI, SDI, or DETACHED. This setting will affect all BBjSessions started with BBjCommandLineObject; the value can be retrieved by calling getChildFrameMode() on the BBjCommandLineObject.

## **Summary**

BBj 9.0 provides methods on the BBjAPI object for setting the default MDI mode that will be used when creating new child MDI processes. Similarly, the command line setting and the methods of the BBjCommandLineObject provide control of the mode of a single BBj process. Combining these various methods, the user has complete control of the MDI behavior of all BBjSessions.

Today, you can truly develop your application, any way you want!