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Enterprise Miner™ Software: Changes and Enhancements, Release 4.2

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SAS Process Monitor

In Enterprise Miner 4.2, the external SAS Process Monitor is the only program that you use to track nodes and stop them from running.

The monitor can be used locally and in client/server modes.

You can use three macro variables to change the settings of the monitor:

- EM_MONITOR_EXE, which specifies the location of the monitor program
- EM_MONITOR_IP, which specifies the local machine's IP address
- EM_MONITOR_PORT, which specifies the local system's socket number.

By default, the monitor is not used in the Regression and SOM/Kohonen nodes. You must select **Tools** → **Training Monitor** from the main menu to use the monitor in these nodes. The monitor is used by default in the Neural Network node.

For more information about the SAS Process Monitor, select from the Enterprise Miner main menu **Help** → **EM Reference** → **SAS Process Monitor**.

Enterprise Miner Tree Desktop Application

The Tree Results Viewer from Enterprise Miner 4.1 is now called the Enterprise Miner Tree Desktop Application in Enterprise Miner 4.2. The supported client platforms are Windows NT, 2000, and XP. Server platforms are all the usual SAS MVA platforms.

The Enterprise Miner Tree Desktop Application is available in Viewer mode (production) in Enterprise Miner 4.2.

Enhancements to the Enterprise Miner Tree Desktop Application in Viewer mode include the following:

- The cumulative gain and lift charts use segments that are proportional to the leaf sizes instead of to quantiles of the data.
- The columns of the classification matrix may be the decision alternatives instead of the target values.
- A new bar chart displays a bar for each leaf. The bar widths are proportional to the leaf sizes.

DM_MAX_TRAIN_LEVELS Macro Variable

A new macro variable, DM_MAX_TRAIN_LEVELS, is supported to handle a variable that has a large number of class levels. This macro is used by the DMDB, Variable Selection, Association, and Link Analysis nodes. These nodes have the following changes:

- The Data Mining Database (DMDB) node generates an error when the number of levels of a class variable exceeds the value of the macro variable.
- The Variable Selection node rejects variables that have excessive levels.
- The Association node and the Link Analysis node (when using transaction data) generate errors when the number of levels in a class variable exceeds the maximum of either 10,000 or the value of the macro variable.

Underlying Procedures

The procedures DMINE and DMREG are enabled with Threaded Kernel (TK) technology. The threads can run in parallel on multiprocessors. Running a multithreaded program is faster than running a single-threaded program.

Summary of Node Updates



Score Converter

The C-Score node from Enterprise Miner Release 4.1 has been merged into a new node called the Score Converter node. The Score Converter node provides scored data mining output in both the C and Java languages. The choices of language output enable you to use Enterprise Miner output in a programming environment that is external to SAS software.

New Enterprise Miner Node



Interactive Grouping

The Interactive Grouping node enables you to group variable values into classes that are then used as inputs for predictive modeling. The grouping requires a binary target variable.

Your Turn

If you have comments or suggestions about *Enterprise Miner Software: Changes and Enhancements, Release 4.2*, please send them to us on a photocopy of this page or send us electronic mail.

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