IDE Tau Alpha I Build#

The code name for the next release of the IDE is called Tau. You can experiment with the new features of Tau after you install the IDE Tau Alpha I build. We welcome your suggestions for improvement. Use the IDE Forum for discussions about the IDE, and to post your questions, comments, and suggestions.

What's new?#

- Eclipse 3.3 platform
- CDT 4.0
- A managed build integration for the QNX tool chain
- The QNX System Information enhancements with malloc information view that include various charts to help you observe changes in memory usage (allocations and deallocations). Because it is important for you to know when and where memory is being consumed within an application, the Memory Analysis Tooling feature includes several views that use the trace information from the Memory Analysis session to help extract and visually display this information (to determine memory usage; allocation and deallocation metrics). The IDE includes these new views to help you observe changes in memory over time: Outstanding allocations, Allocation deltas, Deallocation deltas, and Outstanding allocation deltas. To access these views, select "Window"-->"Show View"-->"Other" from the menu in the IDE, and then select "QNX System Information"-->"Malloc Information", and click "OK".
    - Note: For you to begin to view data on your graphs, you need to set logging for the target, and you need to select an initial process from the Target Navigator view.
- The Memory Analysis Tool lets you import and export trace data from a Memory Analysis session view. With the Memory Analysis Tool, you can:
    - Export session information in CSV or XML format. In the IDE, you can export your trace data session information from a Memory Analysis session view. When exporting memory analysis information, the IDE lets you export results in .csv format or in .xml format. Later, you can import the event-specific results into a spreadsheet, or you can choose to import session data back into a Memory Analysis tool to review the results. To export, click "File"-->"Export" from the menu, and then select "QNX"-->"Memory Analysis Data".
    - Import memory analysis sessions from trace file or XML format. In the IDE, you can import memory events and memory errors from a Memory Analysis session view. When importing memory analysis session information, the IDE lets you import from libmalloc trace file (generated on the target), or from previously exported session data in XML format. To import, click "File"-->"Import" from the main menu, select "QNX"-->"Memory Analysis Data", and then follow the wizard instructions.

Installation Instructions#

To install IDE Tau Alpha I:

- 1. Download and install QNX Momentics 6.3.2.
- 2. Download IDE Tau Alpha I from the Project Download area.
- 3. Save the ".zip" file you downloaded to a temporary directory. Use your favorite unzip program (such as "Winzip" on Windows, or using the "unzip" command on Linux) to extract the zip file.
- 4. Extract the zip file content. The extraction process creates an "eclipse" directory.
- 5. For Linux:
    - a.) Ensure that the "$QNX_HOST/usr/bin" appears at the beginning of the $PATH environment variable. You can include it by using this command:
        - export PATH=$QNX_HOST/usr/bin:$PATH
        - To verify where it appears in the $PATH variable, use the following command in a shell: "echo $PATH"

- b.) Set the "LD_LIBRARY_PATH" by issuing this command:
  - export LD_LIBRARY_PATH=$QNX_HOST/usr/bin:$LD_LIBRARY_PATH
- c.) Disable "SELinux" if it is currently enabled.
  - Configure SELinux by launching "Desktop"->"System Settings"->"Security Level".
  - Click the SELinux tab, unselect "Enabled", then reboot your system.
- d.) To launch the IDE, run "eclipse/qde".

- 6. For Windows:
  - a.) Ensure that "%QNX_HOST%\usr\bin" is included in the %PATH% environment variable. To verify where it appears in the $PATH variable, use the following command in a Windows command prompt:
    - set %PATH%
  - b.) To launch the IDE, run "eclipse\qde.exe".

After You Install#

After you install IDE Tau Alpha I, the first time you start the IDE on Windows, the Workspace Launcher dialog prompts you for a location to store your workspace. By default, the IDE offers to put your workspace in a sub-directory called "ide-tau-workspace". To store your workspace in another location, click "Browse" and select a directory for your workspace. To continue loading the IDE, click "OK".

Licensing#

This is experimental code that is being provided for evaluation purposes only under the terms of a valid QNX Momentics development tool license agreement.