Overture 1.0.0 Release Notes

What's New in Overture 1.0.0?

This is the first official release of the Overture/VDM tool suite.

System Requirements

Overture is based on the Eclipse platform. To run it, you must have a Java runtime system installed, version 5 or later.

Downloading

Overture can be downloaded from the *SourceForge* site.

Documentation, including download instructions, tutorials and a language manual, is available from the Overture portal site.

Installing

The download file is a ZIP archive. To install the tool, unzip the file in a convenient location. The main executable is in the top level directory, called *overture.*

Uninstalling

To uninstall Overture, remove the contents of the directory where you installed it. There are no other files stored on the system (apart from any workspace files you may have created).

Known Issues

The following issues are already known. You can find the full list of Overture bugs at the *SourceForge* site. Please check the bug list before raising new bugs.

- LaTeX coverage files and VDM-RT log files do not correctly handle international character encodings.

- It is possible to enter illegal expressions in a launch dialogue, which then fail at runtime. These should be type checked before launch.

- Error/warning locations may not be perfect if the source line is indented with tabs, or mixtures of tabs and spaces. Similarly, LaTeX coverage output does not correctly process tabs.

- The dynamic syntax error marking (while you type) does not always mark the precise location of errors correctly, until you save the file.

- If VDM source is embedded in LaTeX, the first line of the file must be a LaTeX document, section or subsection command, or a LaTeX comment.

- When an execution stops at a breakpoint, the Debug dialogue may not open the stack of the current thread, or may focus on the stack of another thread.

- Combinatorial testing does not always refresh the results when tests are evaluated. Click the Refresh button at the top of the view to force a refresh.

- There are several known issues or limitations in the VDMJ engine. See the SourceForge bug list for details.

- The output console showing the result of an evaluation, or an error raised during evaluation, is not always visible when the evaluation completes. Click the "Display Selected Console" button to cycle through the consoles available.

- Launch configurations are not filtered out when a project is closed, leading to errors if you try to run them. Open the project and try again.

- It sometimes takes a long time to generate the GUI representation of a VDM-RT log file, and the log files themselves can become quite large.

- You may find a Proof Obligation View remains open when you switch out of the Proof Obligations perspective. Just close the view.

- If you use the "Console" mode for a launch configuration, there is no prompt in the Console view that starts up. If you type "help" in the console, you will see a list of commands that you can use, the most common being *print <expression>*.

- When you run a set of combinatorial tests, the coverage of the specification is not measured. Individual tests' coverage is measured if you "Send to Interpreter".

Troubleshooting

If you encounter a problem with the Overture IDE itself, please contact the Overture project and we will try to help. You can contact us here:

- email: info@overturetool.org
- forums: The Overture Help forum on SourceForge

If you encounter a problem with a VDM *specification*, please try to make a small example that illustrates the problem before you contact us. If you are sure the bug is not already known in the SourceForge list, you can create a new bug report.

Frequently Asked Questions

- *Who produced Overture?*

    Overture was written by the members of the Overture project, a group of industry and academic researchers interested in the use of VDM.

- *How is Overture licensed?*

  Overture is open source. It is released under a GPLv3 license.

- *What can I do to help?*

  If you are interested in helping you can drop a mail to info@overturetool.org.

- *Where is Overture source code?*

  Overture source code is managed by SourceForge.

Other Resources and Links

The following links may be helpful:

- Overture Community site – http://www.overturetool.org
- Overture Wiki for developers - http://wiki.overturetool.org
- VDM Tutorials - http://overturetool.org/?q=Documentation
- VDM Examples - http://overturetool.org/?q=node/11
- VDM Portal - http://www.vdmportal.org
- VDM Books – http://www.vdmbook.com
- Wikipedia on VDM - http://en.wikipedia.org/wiki/Vienna_Development_Method