Xcode Tools 1.5 for
Mac OS X version 10.3 (Panther)

Following is information for the Xcode Tools 1.5 for Mac OS X v10.3 (Panther).

What's New

- **Xcode 1.5:** Xcode 1.5 is the current version of Apple's Integrated Development Environment.
  Xcode 1.5 highlights include:
    - Dead-code stripping
    - Remote debugging
    - Code completion for Java and AppleScript
    - Subversion source-code control system support
    - Native build system support for AppleScript
    - Enhanced debugger with a memory browser, globals browser, and ability to display file static variables
    - Faster Editor Performance
    - Ant templates
    - Documentation bookmarks
    - Speed improvements

    After installation, Release Notes containing detailed information on changes can be found in:
        /Developer/ADC Reference Library/releasenotes/DeveloperTools
    You can access the release notes from Xcode's **Help** menu using the **Show Release Notes** menu item.

- **gcc 3.3**:   Updates to gcc 3.3 in this release include compilation speed enhancements and making
  the -fast flag more robust. For more information about all the changes made in gcc 3.3, see
        /Developer/ADC Reference Library/releasenotes/DeveloperTools/GCC3.html

- **Documentation**: The developer documentation has been moved from
  /Developer/Documentation to /Developer/ADC Reference Library, and no longer includes PDF
  versions of the documents. PDF is still available for download from the ADC website. See the
  Documentation release notes for details.

- **Java Development:**
    - If you are doing Java development, make sure you have the latest Java software update
      (currently Java 1.4.2) and after installing Xcode Tools, install the latest Java Developer Tools.
      You can find the latest Java Developer Tools at
          http://connect.apple.com/

    - **Ant support**: Ant is now installed in /Developer/Java/Ant and is referenced
      in the following new Xcode templates: Ant-based Application jar, Ant-based Empty Project,
      and Ant-based Java Library.

- **Java Application Servers Development** - The Java Application Servers Development Kit is not included
  as a custom install option with this release. If you are upgrading an existing Xcode Tools configuration
  which includes the Ant, XDoclet-based and J2EE project templates, and JBoss, they will be left in place.
  An updated installer that includes these components is available as a separate item from the Apple
  Developer Connection.
        http://connect.apple.com

- **CHUD 3.5:** The Computer Hardware Understanding Developer Tools (CHUD Tools) are a set of
  applications and tools for measuring and optimizing software performance on Mac OS X, as well
  as for hardware bring-up and system benchmarking. They are an optional installation, selected
  during the install process using the "Customize" button. Xcode Tools v1.5 includes CHUD v3.5.2.
  For more information, see
        http://developer.apple.com/tools/performance/

- **Carbon Tools**: Fixes have been made to some of the tools provided for Carbon development.
   For more information, please see the Carbon Tools release notes in the ADC Reference Library,
   accessible from the Xcode documentation window.

Known Issues in this Release

- You cannot re-order smart groups in Xcode.

- The toolbar of a project's project window in Xcode 1.2 will be reset to a new default toolbar after installing Xcode 1.5.

- The toolbar customization sheet for the Project window contains a toolbar item labeled *Editing Mode.* Xcode will
  crash if this toolbar item is placed on the toolbar of the *Project* window. Users should avoid placing it on the *Project*
  window's toolbar and should remove it if they have put it there. The *Editing Mode* toolbar item functions properly
  when used in the toolbar of a separate editor window.

- Remote debugging is not supported on Mac OS X 10.1.x or earlier. Documentation for setting up remote debugging
  can be found at

- The ability to view the Project tree independent of the detail view in the Xcode Project Window is no longer supported in Xcode 1.5. These needs will be supported in a future release.

- The Comments and Smart Group inspectors will show for non-custom smart groups.

- Xcode supports authentication via ssh in Subversion (ssh+svn) from the UI. Acessing web-based Subversion servers (http, https) is also supported, but the initial authentication must be done from the command line.

- Enabling or disabling custom data formatters can cause variable values in previously visited frames of the current call stack to get out of sync with the debugger. Please see the Xcode release notes located at /Developer/ADC Reference Library/releasenotes/DeveloperTools/Xcode/Xcode.html

- In the General tab of the project inspector, if the *Enable SCM* checkbox is not checked, clicking the *Edit…* button (to configure SCM settings) will cause an internal error. Checking the *Enable SCM* checkbox before editing SCM settings will avoid the internal error.

- When using CVS, discarding changes on a file checked out on a branch will cause the branch tag for that file to be lost, bringing the file back to the main trunk. To restore the branch tag, use *SCM→Update to→Specific Revision…* and enter the branch tag name.

- Performance and other modifications made to OpenGL in 10.3.4 changed the way OpenGL Profiler accesses its information. In particular, the way OpenGL Profiler attaches itself to OpenGL functions is not the same as in 10.3.3 and earlier.

- If you are doing WebObjects development, please see the Xcode release notes at: /Developer/ADC Reference Library/releasenotes/DeveloperTools/Xcode/Xcode.html

Bug Reports and Feedback

- When submitting bug reports, please include the key phrase "XcT7K568:" in the bug title and description. This information is extremely helpful to our team of engineers, it will help prevent delays in assessing your bug report and assigning it properly.

- For complete instructions on submitting bug reports, please see the following web page: http://developer.apple.com/bugreporter

- You can also send feedback and questions to the xcode-feedback@group.apple.com email address. It is helpful if you first submit a bug report and then include the bug number in your email. If the question is specific to this release, be sure to include the key phrase "XcT7K560:" in the subject line.

- WHEN SUPPLYING FEEDBACK:
Please be sure to include an ASP (Apple System Profiler) report along with a crash log for all crashing bugs. Kernel panic reports are also very important. If the panic is occurring during installation, we ask that you please record the backtrace with all the hex numbers and forward this information with your bug report. Please do your best to describe any sequence of operations which leads to a repeatable incorrect behavior, and include example source and project files whenever possible that can demonstrate the issue.

- TO GENERATE A CRASH LOG:
Launch Console, go to Preferences and mark the checkboxes under the Crash tab.

Compatibility

- Xcode Tools 1.5 Build 7K571 project files are fully compatible with all Xcode 1.0.x, 1.1, and 1.2 project files. You should review your target configuration to be certain that all your settings are correct after opening with Build 7K571.

Installation and Removal

- IMPORTANT: Xcode Tools 1.5 is a full release of the Xcode development tools suite.   It requires Mac OS X v10.3.x and is able to upgrade previous installations of Xcode Tools 1.0.x, 1.1, and 1.2.

- Downloading and installing from ADC Member Site:
  - Download all the segments from the ADC Member Site
  - Click on any of the segments to recombine them into a single disk image
  - Double click on the disk image to mount
  - Double click on the Developer.mkpg file to install. This will require an administrator password.

- Xcode Tools 1.5 Build 7K571 installs Xcode IDE 389, Xcode Core 387 and ToolSupport 372, reported in the About Xcode info box. It installs gcc version 3.3 build 1666 and gdb build 330.1.

- To uninstall this release and return to the prior version of Xcode, you need to use the uninstall-devtools.pl script located in /Developer/Tools. Using this script removes all developer tools. Then reinstall the Xcode tools from your prior Xcode Tools distribution CD or disk image. To run

this script, from a Terminal window use the command: sudo perl /Developer/Tools/uninstall-devtools.pl
You will be asked for your administrator password.

- Please check the included release notes and Xcode Help for more information.

Thank you for your support,
Apple Developer Connection