GT 5.2.3 Release Notes:  
C Common Libraries

Table of Contents

1. Component Overview .......................................................... 1
2. Feature summary .............................................................. 1
3. Summary of Changes in C Common Libraries .............................. 1
4. Fixed Bugs for C Common Libraries ........................................ 2
5. Known Problems in C Common Libraries .................................... 2
6. Technology dependencies ..................................................... 2
7. Tested platforms ............................................................... 2
8. Backward compatibility summary ............................................. 2
9. Associated Standards .......................................................... 3
10. For More Information ......................................................... 3

1. Component Overview

The C Common Libraries provide an abstraction layer for data types, libc system calls, and data structures used throughout the Globus Toolkit and useful for applications that use the Globus Toolkit.

2. Feature summary

• Globus Callback - Portable event handling layer for signal handling and periodic and one-shot events in a single- or multi-threaded environment.

• Globus Error - An abstraction for providing context-specific information in error response in C.

• Portable Threading API for POSIX and Windows

• URL String Parser

• Configuration handlers for command-line, environment-variable, and configuration file based application configuration.


3.1. New Features: C Common Libraries

None.

3.2. Improvements: C Common Libraries

None.
4. Fixed Bugs for C Common Libraries

- GT-264\(^1\): link error in globus-redia
- GT-288\(^2\): environ variable not accessible from shared libraries on Mac OS X

5. Known Problems in C Common Libraries

- GT-108\(^3\): --libdir is being ignored
- GT-114\(^4\): i18n rules in installer don't work

6. Technology dependencies

C Common Libraries only depend on the globus_core module.

7. Tested platforms

The C common libraries have been tested on the following platforms

Table 1. Tested Platforms

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Distribution</th>
<th>Version(s)</th>
<th>Architecture(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linux</td>
<td>CentOS 4</td>
<td>i386, x86_64</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CentOS 5</td>
<td>i386, x86_64</td>
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<td>Fedora 16, 17</td>
<td>i386, x86_64</td>
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<td>Red Hat Enterprise Linux 5, 6</td>
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<td>Scientific Linux 5, 6</td>
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<td>Debian 6, 7 (testing)</td>
<td>i386, amd64</td>
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<td>i386, amd64</td>
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<td></td>
<td>Mac OS X 10.8 (Mountain Lion)</td>
<td>x86_64</td>
<td></td>
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<tr>
<td>Solaris</td>
<td>11</td>
<td>x86_64</td>
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</tr>
</tbody>
</table>

8. Backward compatibility summary

API changes since GT version 5.2.2

None.

All of the GT 3.2 API is still functional in GT 5.2.3.

\(^1\) http://jira.globus.org/browse/GT-264
\(^2\) http://jira.globus.org/browse/GT-288
\(^3\) http://jira.globus.org/browse/GT-108
\(^4\) http://jira.globus.org/browse/GT-114
9. Associated Standards

There are no standards implemented by the C common libraries.

10. For More Information

See the C API pages\(^1\) for more information about this component.

\(^1\) http://www.globus.org/api/c-globus-5.2.3/