

# GT 6.0 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-more 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. Summary of Changes in C Common Libraries

### 3.1. New Features: C Common Libraries

None.

### 3.2. Improvements: C Common Libraries

- Update of build system to enable parallel builds, cross-compiling, and easier testing

## 4. Fixed Bugs for C Common Libraries

- [GT-390](#)<sup>1</sup>: globus\_callout loader fails load plugins on systems with broken libtool-ltdl
- [GT-470](#)<sup>2</sup>: Globus IO reports timeout error as cancellation

## 5. Known Problems in C Common Libraries

- [GT-108](#)<sup>3</sup>: --libdir is being ignored
- [GT-114](#)<sup>4</sup>: i18n rules in installer don't work
- [GT-360](#)<sup>5</sup>: signals ignored by subprocesses
- [GT-452](#)<sup>6</sup>: autoconf macros for globus-core can't handle absolute path in CC variable (e.g. CC=/usr/bin/gcc)
- [GT-470](#)<sup>7</sup>: Globus IO reports timeout error as cancellation

## 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**

Operating System	Distribution	Version(s)	Architecture(s)
	CentOS	5	i386, x86_64
	Fedora	18, 19	i386, x86_64
	Red Hat Enterprise Linux	5, 6	i386, x86_64
	Scientific Linux	5, 6	i386, x86_64
	Debian	6, 7	i386, amd64
	Ubuntu	10.04LTS, 12.04LTS, 12.10, 13.04, 13.10	i386, amd64
Mac OS X		10.8 (Mountain Lion)	x86_64
Solaris		11	x86_64

## 8. Backward compatibility summary

API changes since GT version 5.2.5

None.

All of the GT 3.2 API is still functional in GT 6.0.

## 9. Associated Standards

There are no standards implemented by the C common libraries.

## 10. For More Information

See the [C API pages](#)<sup>1</sup> for more information about this component.

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<sup>1</sup> <http://www.globus.org/api/c-globus-6.0/>