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# GT 4.2.1 Release Notes: C Common Libraries

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<titleabbrev>Release Notes</titleabbrev>

## 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

Features new in release GT 4.2.1:

- globus\_range\_list abstraction added
- globus\_logging abstraction added
- In this release we added globus\_options. This is some common code for parsing options from the command line, environment variables, or configuration files.

## 3. Summary of Changes in C Common Libraries

No significant changes have happened for C Common Libraries since GT 4.0.x. See [Feature Summary](#) for some minor changes.

## 4. Bug Fixes

- Fixed a problem with large (>4GB) file support on newer Linux distributions. See [Bug 6348](#)<sup>1</sup> for more info.

See a [bugzilla](#)<sup>2</sup> query on Toolkit Internals->globus\_common to list bugs previously fixed.

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<sup>1</sup> [http://bugzilla.globus.org/globus/show\\_bug.cgi?id=6348](http://bugzilla.globus.org/globus/show_bug.cgi?id=6348)

<sup>2</sup> <http://bugzilla.globus.org/globus/query.cgi>

## 5. Known Problems

The following problems and limitations are known to exist for C Common Libraries at the time of the 4.2.1 release:

### 5.1. Limitations

There are no known limitations at this time.

### 5.2. Outstanding bugs

See a [bugzilla](#)<sup>3</sup> query on Toolkit Internals->globus\_common to list the bugs outstanding.

## 6. Technology dependencies

C Common Libraries only depend on the globus\_core module.

## 7. Tested platforms

The C common libraries work on any platform on which the toolkit is supported. See [supported platforms](#).

## 8. Backward compatibility summary

API changes since GT version 4.0.x

- globus\_range\_list abstraction added
- globus\_logging abstraction added

All of the GT 3.2 API is still functional in GT 4.2.1.

## 9. Associated Standards

There are no standards implemented by the C common libraries.

## 10. For More Information

See the [C API pages](#)<sup>4</sup> for more information about this component.

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<sup>3</sup> <http://bugzilla.globus.org/globus/query.cgi>

<sup>4</sup> <http://www.globus.org/api/c-globus-4.2.1/>