

A library that provides an embeddable, persistent key-value store for fast storage.

[rocksdb.org](https://rocksdb.org)

GPL-2.0 and 2 other licenses found

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Code



hy235 and  
meta-codesync[bot]

Fix use-after-free in BlockBasedTable after best-effort...

d2fe0ee · 2 days ago

|                 |                                       |              |
|-----------------|---------------------------------------|--------------|
| .github         | CI: move valgrind to weekly (#1...    | last month   |
| buckifier       | Update format-diff script to ad...    | 2 weeks ago  |
| build_tools     | Update format-diff script to ad...    | 2 weeks ago  |
| cache           | Continue migration of HCC imp...      | 3 days ago   |
| cmake           | Fix zstd typo in cmake (#12309)       | last year    |
| coverage        | internal_repo_rocksdb                 | last year    |
| db              | Fix use-after-free in BlockBased...   | 2 days ago   |
| db_stress_tool  | Use AutoHCC by default in tool...     | 3 weeks ago  |
| docs            | Blog post for parallel compress...    | 2 months ago |
| env             | Change PosixWritableFile Trunc...     | 2 months ago |
| examples        | Require C++20 (#13904)                | 4 months ago |
| file            | Support Super Block Alignment...      | 3 months ago |
| fuzz            | Preliminary support for custom...     | 6 months ago |
| include/rocksdb | Add checks to terminate early ...     | last week    |
|                 | Java's Get() to directly return fo... | 3 weeks ago  |

FEDEX 1200

Fedex Corp. v. Valtrus Innovations Ltd.  
IPR2025-01490

|                                                                                                        |                                                      |               |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------|
|  java                  |                                                      |               |
|  logging              | Standardize on clang-format ve...                    | last year     |
|  memory               | Refactor, improve Compressed...                      | 5 months ago  |
|  memtable             | Add option to validate key duri...                   | 3 months ago  |
|  microbench           | internal_repo_rocksdb (-879417...                    | 2 years ago   |
|  monitoring           | Introducing Prepare all iterator...                  | 2 weeks ago   |
|  options              | Fix overflow in MultiplyCheckO...                    | 2 weeks ago   |
|  plugin               | Add initial CMake support to pl...                   | 4 years ago   |
|  port                 | Fix compilation error using CLA...                   | 4 months ago  |
|  table                | Improve distinct compression f...                    | 2 weeks ago   |
|  test_util            | Continue migration of HCC imp...                     | 3 days ago    |
|  third-party          | Fix tests broken by gtest upgra...                   | 6 months ago  |
|  tools                | Start 10.10.0 development ( <a href="#">#14...</a>   | last week     |
|  trace_replay       | propagate request_id from app...                     | 7 months ago  |
|  unreleased_history | Fix use-after-free in BlockBased...                  | 2 days ago    |
|  util               | Continue migration of HCC imp...                     | 3 days ago    |
|  utilities          | Add checks to terminate early ...                    | last week     |
|  .clang-format      | A script that automatically refor...                 | 12 years ago  |
|  .gitignore         | Add Meta internal config file to...                  | 11 months ago |
|  .lgtm.yml          | Create lgtm.yml for LGTM.com ...                     | 7 years ago   |
|  .watchmanconfig    | Added .watchmanconfig file to ...                    | 6 years ago   |
|  AUTHORS            | Update RocksDB Authors File                          | 8 years ago   |
|  BUCK               | Add oncall to BUCK file ( <a href="#">#14134</a> )   | 2 weeks ago   |
|  CMakeLists.txt     | Auto-tune manifest file size ( <a href="#">#1...</a> | last month    |
|  CODE_OF_CONDUCT.md | Adopt Contributor Covenant                           | 6 years ago   |
|  CONTRIBUTING.md    | Add Code of Conduct                                  | 8 years ago   |

|                                                                                                              |                                                        |               |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------|
|  COPYING                    | Add GPLv2 as an alternative lic...                     | 8 years ago   |
|  DEFAULT_OPTIONS_HIST...    | Add Options::DisableExtraChec...                       | 4 years ago   |
|  DUMP_FORMAT.md             | First version of rocksdb_dump ...                      | 10 years ago  |
|  Directory.Build.props      | Use ccache to accelerate windo...                      | 2 months ago  |
|  HISTORY.md                 | Start 10.10.0 development ( <a href="#">#14...</a> )   | last week     |
|  INSTALL.md                 | Require C++20 ( <a href="#">#13904</a> )               | 4 months ago  |
|  LANGUAGE-BINDINGS.md       | Add python binding to LANGU...                         | 10 months ago |
|  LICENSE.Apache             | Change RocksDB License                                 | 8 years ago   |
|  LICENSE.leveldb            | Add back the LevelDB license file                      | 8 years ago   |
|  Makefile                   | Support ccache in make file ( <a href="#">#1...</a> )  | last week     |
|  PLUGINS.md                 | Add encfs plugin link ( <a href="#">#12070</a> )       | 2 years ago   |
|  README.md                  | Remove deprecated integratio...                        | 2 years ago   |
|  USERS.md                  | Add Venice as a RocksDB user (...)                     | last year     |
|  Vagrantfile              | Adding CentOS 7 Vagrantfile &...                       | 7 years ago   |
|  WINDOWS_PORT.md          | Update branch name in WIND...                          | 4 years ago   |
|  ccache_msvc_compiler.bat | Use ccache to accelerate windo...                      | 2 months ago  |
|  common.mk                | Clean up variables for tempora...                      | 3 years ago   |
|  crash_test.mk            | More separation of txn_write_p...                      | 9 months ago  |
|  folly.mk                 | More folly build updates ( <a href="#">#140...</a> )   | last month    |
|  issue_template.md        | Add Google Group to Issue Te...                        | 6 years ago   |
|  rocksdb.pc.in            | build: fix pkg-config file genera...                   | 3 years ago   |
|  src.mk                   | Auto-tune manifest file size ( <a href="#">#1...</a> ) | last month    |
|  thirdparty.inc           | Fix build jemalloc api ( <a href="#">#5470</a> )       | 6 years ago   |

# RocksDB: A Persistent Key-Value Store for Flash and RAM Storage



RocksDB is developed and maintained by Facebook Database Engineering Team. It is built on earlier work on [LevelDB](#) by Sanjay Ghemawat ([sanjay@google.com](mailto:sanjay@google.com)) and Jeff Dean ([jeff@google.com](mailto:jeff@google.com))

This code is a library that forms the core building block for a fast key-value server, especially suited for storing data on flash drives. It has a Log-Structured-Merge-Database (LSM) design with flexible tradeoffs between Write-Amplification-Factor (WAF), Read-Amplification-Factor (RAF) and Space-Amplification-Factor (SAF). It has multi-threaded compactions, making it especially suitable for storing multiple terabytes of data in a single database.

Start with example usage here: <https://github.com/facebook/rocksdb/tree/main/examples>

See the [github wiki](#) for more explanation.

The public interface is in `include/`. Callers should not include or rely on the details of any other header files in this package. Those internal APIs may be changed without warning.

Questions and discussions are welcome on the [RocksDB Developers Public](#) Facebook group and [email list](#) on Google Groups.

## License

RocksDB is dual-licensed under both the GPLv2 (found in the COPYING file in the root directory) and Apache 2.0 License (found in the LICENSE.Apache file in the root directory). You may select, at your option, one of the above-listed licenses.

### Releases 208

 v10.7.5 Latest  
on Oct 22

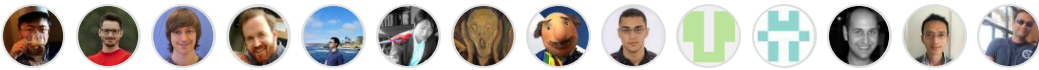
[+ 207 releases](#)

### Packages

No packages published

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Contributors 789



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Languages

