Main

Welcome to OpenJDK 8 Updates!

OpenJDK 8 updates are a separate project of OpenJDK. Andrew Haley serves as the Project Lead. The list of Reviewers, Committers, and Authors can be found in the jdk8u entry of the OpenJDK Census.

Maintainers

- Andrew Haley
- Andrew Hughes
- Severin Gehwolf

Releases

Latest GA release: 8u382

Latest Generally Available (GA) binary releases of the OpenJDK jdk8u project are available at: https://adoptium.net/temurin/releases/?version=8

Latest Early Access (EA) binary releases of the OpenJDK jdk8u project are available at: https://adoptium.net/temurin/nightly/?version=8

Most recent and past release details:

- 8u382-b05 (GA), July 18th 2023 [Release] [Tag] [Binaries]
- 8u372-b07 (GA), April 18th 2023 [Release] [Tag] [Binaries]
- 8u362-b09 (GA), January 17th 2023 [Release] [Tag] [Binaries]
- 8u352-b08 (GA), October 18th 2022 [Release] [Tag] [Binaries]
- 8u345-b01 (GA), August 2nd 2022 [Release] [Tag] [Binaries]
- 8u342-b07 (GA), July 19th 2022 [Release] [Tag] [Binaries]
- 8u332-b09 (GA), April 22th 2022 [Release] [Tag] [Binaries]
- 8u322-b06 (GA), January 30th 2022 [Release] [Tag] [Binaries]
- 8u312-b07 (GA), October 19th 2021 [Release] [Tag] [Binaries]
- 8u302-b08 (GA), July 20th 2021 [Release] [Tag] [Binaries]
- 8u292-b10 (GA), April 20th 2021 [Release] [Tag] [Binaries]
- 8u282-b08 (GA), January 19th 2021 [Release] [Tag] [Binaries]
- 8u275-b01 (GA), November 5th 2020 [Release] [Tag] [Binaries]
- 8u272-b10 (GA), October 20th 2020 [Release] [Tag] [Binaries]
- 8u265-b01 (GA), July 27th 2020 [Release] [Tag] [Binaries]
- 8u262-b10 (GA), July 14th 2020 [Release] [Tag] [Binaries] [Missing changes vs 8u262 of Oracle] (JBS Login required) [Additional changes vs 8u262 of Oracle] (JBS Login required)
- 8u252-b09 (GA), April 14th 2020 [Release] [Tag] [Binaries] [Missing changes vs 8u252 of Oracle] (JBS Login required) [Additional changes vs 8u252 of Oracle] (JBS Login required)
- 8u242-b08 (GA), January 19th 2020 [Release] [Tag] [Binaries] [Missing changes vs 8u242 of Oracle] (JBS Login required) [Additional changes vs 8u242 of Oracle] (JBS Login required)
- 8u232-b09 (GA), October 15th 2019 [Release] [Tag] [Binaries] [Missing changes vs 8u232 of Oracle] (JBS Login required) [Additional changes vs 8u232 of Oracle] (JBS Login required)
- 8u222-b09 (GA), July 16th 2019 [Release] [Tag] [Binaries] [Missing changes vs 8u222 of Oracle] (JBS Login required) [Additional changes vs 8u222 of Oracle] (JBS Login required)
- 8u212-b03 (GA), April 16th 2019 [Release] [Tag] [Binaries] [Missing changes vs 8u212 of Oracle] (JBS Login required) [Additional changes vs 8u212 of Oracle] (JBS Login required)

Repository Status

jdk8u-dev (git): Pushes for OpenJDK 8u402 after jdk8u-fix-yes approval. Check here for clearance.

jdk8u (git): Pushes for OpenJDK 8u392 after jdk8u-critical-yes approval. Check here for clearance.

Timelines

Dates may be subject to change

OpenJDK 8u392

- Monday, May 30th 2023: jdk8u-dev forest open (tag: jdk8u392-b00)
- Friday, July 28th 2023: First build promotion jdk8u-dev jdk8u (tag: jdk8u392-b01)
- Friday, August 4th 2023: Skipped, no changes
- Friday, August 11th 2023: Second build promotion jdk8u-dev jdk8u (tag: jdk8u392-b02)
- Friday, August 18th 2023: Third build promotion jdk8u-dev jdk8u (tag: jdk8u392-b03)
- Friday, August 25th 2023: Fourth build promotion jdk8u-dev jdk8u (tag: jdk8u392-b04) & start of Rampdown phase
- Friday, September 2nd 2023: Skipped, no changes
- Friday, September 9th 2023: First jdk8u build promotion (tag: jdk8u392-b05)
- Friday, September 16th 2023: Third jdk8u build promotion (tag: jdk8u392-b06)
OpenJDK 8u402

- Friday, September 23rd 2023: Final jdk8u build promotion (tag: jdk8u392-b07)
- Tuesday, October 17th 2023: GA; OpenJDK 8u392 released (tag: jdk8u392-ga, likely to be jdk8u392-b08)

General Information

As a preamble, the project lead has established general guidelines for working on jdk8u and best practices for OpenJDK 8u backports.

OpenJDK 8 updates will be delivered on the same established quarterly cycle used by Oracle i.e. "the Tuesday closest to the 17th day of January, April, July and October."

Announcements and discussion take place on the jdk8u-dev mailing list. Development takes place in the jdk8u-dev git repository and should be the primary place for OpenJDK 8u committers to submit their work.

Code from the development repository is regularly tagged and promoted to the main jdk8u repository, which is used to stabilize and deliver the quarterly releases. Distributors should use this as their primary source for creating OpenJDK builds.

For further process details, you may want to continue reading here.

Contributing

New fixes should first be submitted to the development repository for the current version of OpenJDK, jdk/jdk, first. The vast majority of changes submitted to the OpenJDK 8 project will be backports from later OpenJDK versions. The version of OpenJDK closest to 8u should be used to minimise the differences between the two JDKs e.g. if 11u is still maintained and has the patch, it should be backported from that repository, rather than jdk/jdk.

Occasional exceptions are made when an issue only applies to 8. In particular, the build system can be quite different from that in later versions, especially as regards HotSpot.

Everybody is encouraged to submit fixes for OpenJDK 8 updates by using the Skara processes now common to all OpenJDK projects. Established community members will help new developers without commit access in getting their patch reviewed. Should you not be willing or not be able to drive a fix into OpenJDK 8 updates, you can still suggest changes. But by only doing that, you are at the grace of the community to pick you up your suggestion.

The suggested process is as follows:

1. Check the bug database for which JDK versions already have the patch applied.
2. When actively starting working on the bug, add a label of the form jdk8u-<username>, to the bug - where <username> is your OpenJDK username - to indicate that you are creating a backport.
3. Take a copy of the patch from the repository of the JDK version closest to 8u to minimise changes.
4. 8u is now a single repository, so there should be a 1:1 relationship between patches to later JDKs and 8u patches, rather than multiple patches for individual sub-repositories. However, file locations are highly likely to be different on 8u, especially with changes for the modular JDK in later versions, so automated backports via SKARA won't work. If the patch was developed after the switch to the modular system (during the OpenJDK 9 lifecycle) and is not a HotSpot fix, shuffle the paths using jdk9u-common/bin/unshuffle_patch.sh <repo> <8.patch> <9.patch>. An updated version of this script is maintained in Andrew Hughes' jdk9u-updated branch on github.
5. Try to apply the patch by using git cherry-pick as documented in the Skara backporting process. If it applies, go to #8. Otherwise, #7.
6. Fix the patch so it applies. This may require identifying other patches which need to be backported first, in which case you start this process again with that fix.
7. Build the resulting JDK and/or run any new or modified tests, altering if necessary. Again, this may end up needing dependent backports to fix issues that arise.
8. Create a pull request on GitHub as described in the Skara documentation. The pull request should use the title "Backport <x>" where <x> is the hash of the original commit. This ensures that the PR is correctly recognised by Skara as a backport and bugs updated appropriately.
9. Wait for testing to complete and a successful review from an OpenJDK 8u reviewer.
10. Request for approval of the bug to go into OpenJDK 8u. You can do this either by using the Skara /approval command for which you don't need to have access to JBS, or go to the bug in JIRA and add the jdk8u-fix-request label. In either case, be sure to include proper reasons as to why you think that fix needs to get into OpenJDK 8u. Do this either by writing a comment preceded with "Fix Request [8u]" or using the "/approval <comment>" approach. Explain the motivation for the fix, and either explain that it applies cleanly to 8u with patch shuffling, or refer to the GitHub review process.
11. Wait for an 8u maintainer to add jdk8u-fix-yes to the bug.
12. The change can now be pushed to the jdk8u-dev repository using the Skara /integrate command. If you are not yet an OpenJDK 8u Committer, you may need to wait for someone who is to issue the /sponsor command.
13. Pat yourself on the back, having successfully got a patch into OpenJDK 8u.

Older releases can be found in the archive.

The transition of the 8u repositories from Mercurial to git was completed after the April 2022 release, on Monday, April 25th.
Backport bugs will be automatically created on push. If a backport bug needs to be explicitly created - for example, for a Compatibility and Specification Review (CSR) - then please apply labels to that bug to avoid the need to work on two different bugs for the one issue. The fix version should be set to 'openjdk8ux' where x is the current version of 8u being developed. Please avoid using 'openjdk8u' as such bugs will not be resolved automatically. Maintainers should double-check this fix version is correct when approving.

Fix Approvals

In general, we follow the common rules for the jdk-updates project.

If the backport does not apply to the 8u tree via the automated shuffling described above, it should first be submitted for review.

Push approval for a fix is then requested by setting the jdk8u-fix-request label on the original JBS bug. The maintainer will either approve this by setting jdk8u-fix-yes or reject it by setting jdk8u-fix-no. Outstanding approvals can be monitored here. If, and only if, the fix is approved, it may be pushed to the appropriate jdk8u-dev repositories. Approved fixes show up in this JBS filter (login required).

During the later stages of a release cycle, the release enters rampdown. The master jdk8u repositories contain the latest version of that release, while the jdk8u-dev repositories are used to start work on the next release. If a change needs to be pushed to a release in rampdown, push approval can still be requested using the jdk8u-critical-request label. As the name of this tag suggests, this process is intended for fixes such as major regressions that must make the release. More minor bugs and new features should go in the next release being developed in jdk8u-dev. The maintainers may approve with jdk8u-critical-yes, defer to jdk8u-dev or reject altogether. Outstanding approvals for critical fixes can be monitored here. If, and only if, the fix gets approved with jdk8u-critical-yes, it may be pushed to the jdk8u repository. Approved critical fixes show up in this JBS filter (login required).

At the end of the month prior to the release month, the jdk8u repository is declared frozen, so embargoed security fixes can be added in private during the final few weeks. On release day, the final version will be pushed to the jdk8u repository and source bundles made available.

JBS Filters

Some filters will only work for users that are logged into JBS.

**Backports Needing Review**

[All Requests]

**Standard Fix Requests**

[All Requests] [Approved requests] [Approved requests without push] [Unapproved requests]

**Critical Fix Requests**

[Critical requests] [Approved critical requests] [Approved critical requests without push] [Unapproved critical requests]

**Filters for Release 8u302**

[Open Downports Oracle -> OpenJDK]

**Filters for Release 8u292**

[Open Downports Oracle -> OpenJDK] [Additional commits in OpenJDK vs Oracle]

**Filters for Release 8u282**

[Open Downports Oracle -> OpenJDK] [Additional commits in OpenJDK vs Oracle]

**Filters for Release 8u272**

[Open Downports Oracle -> OpenJDK] [Additional commits in OpenJDK vs Oracle]

**Source code**

The jdk8u-dev tree for ongoing development can be cloned using this command: hg clone http://hg.openjdk.java.net/jdk8u/monojdk8u-dev

The corresponding master tree jdk8u can be cloned using this command: hg clone http://hg.openjdk.java.net/jdk8u/monojdk8u

If you just want a read-only copy of the sources, you may also use git: git clone https://github.com/openjdk/jdk8u

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