

# Azul Zulu builds of OpenJDK

August 2023 Azul Zulu 11.66 (11.0.20.1) and 17.44 (17.0.8.1) Update Release Notes

**Revision 1.0** 

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## **Revision History**

Revision	Date	Description
0.1	September 5, 2023	Initial version.
1.0	September 5, 2023	Released version.

## **Release Details**

This is a follow-up release for the July 2023 quarterly update, that addresses some regressions introduced in OpenJDK for Java 17 and 11.

The following table lists detailed information on the Azul Zulu versions released with the current update.

Azul Zulu	Update	JDK Version	Based on		
Version (*)	Type (**)		Azul Zulu Version	JDK Version	JavaFX Version
17.44.53 (CA) 17.44.55 (CA) 17.44.54 (SA) 17.44.56 (SA)	PSU	17.0.8.1	17.44.15 17.44.17 17.44.16 17.44.18	17.0.8+7	20.0.2+100
11.66.19 (CA) 11.66.20 (SA)	PSU	11.0.20.1	11.66.17 11.66.18	11.0.20+8	19.0.4+100

- (\*) Azul provides two types of distribution packages for each Java version:
- SA distributions are tested, certified, and commercially supported Azul Zulu builds of OpenJDK. Azul ensures that the software that uses the Accessible APIs of the product doesn't have to include specific licenses and that such use doesn't contaminate the code or intellectual property of such software with any license requirements.
- CA are Azul Zulu builds of OpenJDK that are free to download and use.

NOTE

Both SA and CA distributions may contain Early Access builds noted with —ea— in their filename. Early Access builds may not be TCK certified.

#### (\*\*) Update type:

- CPU (Critical Patch Updates) contain fixes to security vulnerabilities and critical bug fixes. Azul Zulu CPU releases are generally based on prior-cycle PSU releases, with only security fixes applied. They provide a low-risk vehicle for the potentially urgent deployment of security fixes when issues of sufficient severity arise. CPU releases are available in SA distributions.
- PSU (Patch Set Updates) incorporates all fixes in the corresponding CPU, as well as
  additional non-security bug fixes. Azul Zulu PSU releases incorporate both security
  fixes and other changes that align the release contents with the associated OpenJDK
  project quarterly release. PSU releases are available in SA and CA distributions.

## What's New

#### Invalid CEN Header (ZIP64)

This release includes <u>JDK-8313765</u>, which relaxes ZIP64 extra field validation introduced in the July 2023 Update release. In the scope of the July 2023 Update release, a fix related to <u>JDK-8302483</u> introduced additional field validation in ZIP64. The validation may refuse previously accepted ZIP archives, so a flag was also introduced to turn off the validation, see <u>"Extra Field validation in ZIP64"</u>.

However, it turned out that the validation was too strict, and it refused a lot of previously accepted archives. The fix for <u>JDK-8313765</u> extends the set of accepted ZIP archives in the default configuration, with the extra field validation still being performed.

## **Known Issues**

There are no new known issues to report in this release.

# **OpenJDK Bug Fixes**

The following table describes the OpenJDK changes implemented in this release.

OpenJDK Patch ID	Azul Zulu Version	Synopsis
JDK-8313765	11, 17	Invalid CEN header (invalid zip64 extra data field size)
<u>JDK-8314678</u>	11	Bump update version for OpenJDK: jdk-11.0.20.1
JDK-8304725	17	AsyncGetCallTrace can cause SIGBUS on M1
JDK-8283326	17	Implement SafeFetch statically
JDK-8288719	17	[arm32] SafeFetch32 thumb interleaving causes random crashes
JDK-8284997	17	arm32 build crashes since JDK-8283326
JDK-8285675	17	Temporary fix for arm32 SafeFetch
JDK-8314677	17	Bump update version for OpenJDK: jdk-17.0.8.1