



Azul Zulu builds of OpenJDK

January 2025 Quarterly Update

Release Notes

Revision 0.1

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Revision History

Revision	Date	Description
0.1	January 21, 2025	Initial version of the document.

Release Details

This release is the January 2025 quarterly update release for Azul Zulu Builds of OpenJDK version 23, 21, 17, 11, 8, 7, and 6.

The following table describes which Azul Zulu versions are published with this release.

Azul Zulu Version (*)	Update Type (**)	JDK Version	Based on		JavaFX Version
			Azul Zulu Version	JDK Version	
23.32.11 (CA) 23.32.12 (SA)	PSU	23.0.2+7	23.30	23.0.1+11	23.0.2+101
21.39.14 (SA)	CPU	21.0.5.0.101+1	21.38	21.0.5+11	23.0.1.0.101+100
21.40.17 (CA) 21.40.18 (SA)	PSU	21.0.6+7	21.39	21.0.5.0.101+1	23.0.2+101
17.55.14 (SA)	CPU	17.0.13.0.101+1	17.54	17.0.13+11	22.0.3.0.101+100
17.56.15 (CA) 17.56.16 (SA)	PSU	17.0.14+7	17.55	17.0.13.0.101+1	22.0.4+102
11.77.14 (SA)	CPU	11.0.25.0.101+1	11.76	11.0.25+9	19.0.9.0.101+100
11.78.15 (CA) 11.78.16 (SA)	PSU	11.0.26+4	11.77	11.0.25.0.101+1	19.0.10+101
8.83.0.12 (SA)	CPU	8u441-b01	8.82	8u432-b06	8u441-b01
8.84.0.15 (CA) 8.84.0.16 (SA)	PSU	8u442-b06	8.83	8u441-b01	8u442-b02
7.75.0.14 (SA)	CPU	7u451-b02	7.73	7u441-b02	N/A
6.69.0.14 (SA)	CPU	6b169	6.67	6b167	N/A

(*) Azul provides two types of distribution packages for each Java version:

- **Subscriber Availability (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 a use doesn't contaminate the code or intellectual property of such software with any license requirements. SA builds may support configurations and features that are unavailable to free users.
- **Community Availability (CA)** distributions 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

GC Log Analyzer with OpenJDK support

Azul customers can now use the GC Log Analyzer tool, created by Azul, to investigate Garbage Collector logs. More information about this tool, how to create logs, how to analyze these logs, etc. is available on the [GC Log Analyzer documentation](#).

Support for FIPS 140-3 compliance with BouncyCastle 2.0

Federal Information Processing Standards (FIPS) are publicly announced standards developed by the United States federal government for use by all non-military government agencies and by government contractors. Special builds of Azul Zulu (only for Java 8) are available with integrated FIPS functionality. As announced in the October 2024 release, the FIPS implementation of FIPS is changed to version Bouncy Castle 2.0 (FIPS 140-3 certified), because of [the expiration of the FIPS 140-2 certification for Bouncy Castle 1.X](#), and additional functionality provided in newer versions of Bouncy Castle.

NOTE

If you don't use the FIPS functionality, this change doesn't impact you. For more information about FIPS, check [Federal Information Processing Standards in Zulu](#).

The following breaking changes are introduced with BouncyCastle 2.0:

- The SHA-1 algorithm is fully disabled and cannot be used by the application or internally by the FIPS provider itself.
- The MD5 digest algorithm is disabled by default, but can be enabled with the `org.bouncycastle.jsse.enable_md5=true` system option.
- DES-EDE: encryption is disabled, but decryption is still enabled.
- RSA PKCS#1.5: encryption is disabled, but decryption is still enabled.
- Zulu 8 in FIPS compliance mode uses the BCJSSE provider for TLS connections. The application can experience some behavior differences caused by the difference in the

TLS implementation:

- All RSA KeyExchange cipher suites are disabled by default, but they can be enabled with the `org.bouncycastle.jsse.fips.allowRSAKeyExchange=true` system option.
- TLS renegotiation is disabled by default, but can be enabled with the `org.bouncycastle.jsse.client.acceptRenegotiation=true` system option.

Certificate Changes

Starting with this release, all Zulu builds, including 6 and 7, use OpenJDK CA root certificates and no longer include Mozilla certificates in the collection of trusted root certificates from various Certificate Authorities (CAs).

Fallback Path

In the highly unlikely event that this change causes an issue, the following errors may occur in Java applications, particularly when interacting with external services over

HTTPS: `javax.net.ssl.SSLHandshakeException`,
`java.security.cert.CertificateException`,
`sun.security.validator.ValidatorException`, among others.

You can use the certificate file from a previous Zulu release to address these errors which can be found in the following locations, depending on the Zulu version:

- For Zulu 6, 7, 8 (JDK): `<zulu_path>/jre/lib/security/cacerts`
- For Zulu 6, 7, 8 (JRE): `<zre_path>/lib/security/cacerts`
- For Zulu 11 and above: `<zulu_path>/lib/security/cacerts`

Using Previous `cacerts` File With New Zulu Builds

You can apply the `cacerts` file from the previous Zulu release in one of the following ways:

- Use command line options to specify the path to the previous `cacerts` file using JVM options:

```
java -Djavax.net.ssl.trustStore=<ZULU_2024_10_CACERTS>
```

Optionally, it may also be necessary to specify the `trustStorePassword` option if the previous `cacerts` file has a non-default password (the default password is `changeit`):

```
-Djavax.net.ssl.trustStorePassword=<PASSWORD>
```

- Replace the `cacerts` file in the new Zulu build with the one from the previous release. This file in the Zulu builds of the January 2025 release is located in the same places as indicated above.

New JAR Command Related to Unpacking

The `jar` tool's extract operation has been enhanced to allow the `--keep-old-files` or the `-k` options to be used to prevent existing files from being overwritten. Example usage to extract `foo.jar` and not overwrite files with the same that already exist in the target directory:

```
jar xkf foo.jar
# Or
jar --extract --keep-old-files --file foo.jar
```

IANA Time Zone Data Version



This release of Azul Zulu comes with IANA Time Zone Database version **2024b**.

Supported Platforms

This section provides information about the operating systems that are supported in this release of Azul Zulu.




































Azul Zulu Builds of OpenJDK Without and With OpenJFX

Some versions of Azul Zulu are available in different packages for specific platforms, as indicated in this overview table with:

-  : Build of OpenJDK without OpenJFX.
-  : Build of OpenJDK without and with OpenJFX.

NOTE

The list of supported configurations and platform includes, but is not limited to, the table below. Don't hesitate to [contact Support](#) if you have issues with Azul Zulu Builds of OpenJDK on any other platform or configuration.

Operating System	Azul Zulu Version						
	6	7	8	11	17	21	23
Windows (x86 32/64-bit)							
Windows Server 2025						 [1]	 [1]
Windows Server 2022						 [1]	 [1]
Windows Server 2019						 [1]	 [1]
Windows Server 2016						 [1]	 [1]
Windows 11						 [1]	 [1]

Windows 10						 [1]	 [1]
Windows (ARM 64-bit)							
Windows 11	n/a	n/a	n/a	n/a			n/a
Linux (x86 32/64-bit)							
RHEL 9.x						 [1]	 [1]
RHEL 8.x						 [1]	 [1]
RHEL 6.x and 7.x	n/a	n/a				n/a	n/a
SLES 15						 [1]	 [1]
SLES 12						 [1]	 [1]
CentOS Stream						 [1]	 [1]
Ubuntu 24.04						 [1]	 [1]
Ubuntu 22.04						 [1]	 [1]
Ubuntu 20.04						 [1]	 [1]
Ubuntu 18.04						 [1]	 [1]
Debian 12						 [1]	 [1]
Debian 11						 [1]	 [1]
Wind River 8.x	n/a			n/a	n/a	n/a	n/a

CoreOS	n/a	✓	✓	✓	✓	n/a	n/a
Alpine Linux 3.11 or later	n/a	n/a	✓	✓	✓	✓	✓ [1]
Amazon Linux 2023	n/a	n/a	✓	✓	✓	✓	✓ [1]
Linux (ARM 64-bit)							
Ubuntu 24.04	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓✓
Ubuntu 22.04	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓✓
Ubuntu 20.04	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓✓
Ubuntu 18.04	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓
Debian 12	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓✓
Debian 11	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓✓
Alpine Linux 3.11 or later	n/a	n/a	✓	✓	✓	✓	✓
Amazon Linux 2023	n/a	n/a	✓	✓	✓	✓	✓
Linux with kernel 3.10.x and glibc 2.23 [2] [3]	n/a	n/a	✓	✓	n/a	n/a	n/a
Linux (ARM 32-bit Hard-Float)							
Ubuntu 18.04 [4]	n/a	n/a	✓	✓	✓	n/a	n/a
Raspbian 10 Buster [4]	n/a	n/a	✓	✓	✓	n/a	n/a
Raspbian 9 Stretch [4]	n/a	n/a	✓	✓	n/a	n/a	n/a
Linux with kernel 3.10.x and glibc 2.9 [4] [5]	n/a	n/a	✓	✓	n/a	n/a	n/a
Linux (ARM 32-bit Soft-Float) [6]							
Linux with kernel 2.6.34 and glibc 2.5 [7]	n/a	n/a	✓	✓	n/a	n/a	n/a
Debian 7 Wheezy [8]	n/a	n/a	✓	✓	n/a	n/a	n/a

Linux with kernel 3.10.x and glibc 2.9 [8]	n/a	n/a	✓	✓	n/a	n/a	n/a
Linux (MIPS 32-bit) [9]							
Linux with kernel 4.9.59 and glibc 2.9 [10]	n/a	n/a	✓	n/a	n/a	n/a	n/a
Linux (ppc64 Big Endian)							
Linux with kernel 3.8.13 and glibc 2.22 [11]	n/a	n/a	✓	n/a	n/a	n/a	n/a
Linux (ppc32 Hard-float and SPE)							
Linux with kernel 3.12.37 and glibc 2.20 [12]	n/a	n/a	✓	n/a	n/a	n/a	n/a
QNX							
QNX 7.0 ARMv7 32-bit Hard-Float ABI	n/a	n/a	✓	n/a	n/a	n/a	n/a
QNX 7.1 ARMv8 32-bit Hard-Float ABI	n/a	n/a	✓	n/a	n/a	n/a	n/a
MacOS (x86 64-bit)							
macOS 13+	n/a	✓	✓✓	✓✓	✓✓	✓✓	✓✓
MacOS (Apple Silicon)							
macOS 13+	n/a	n/a	✓✓	✓✓	✓✓	✓✓	✓✓
Solaris (x86 and Sparc)							
Solaris 11	n/a	✓	✓	✓	n/a	n/a	n/a
Solaris 10	n/a	✓	✓	n/a	n/a	n/a	n/a

1. Build of OpenJDK (with and without OpenJFX) only for 64-bit.
2. Bundles with the Checkpoint/Restore (with the `criu` suffix) functionality require kernel 4.4.0+.
3. Bundles compiled with GCC 9 (with the `gcc9` suffix) require glibc 2.29.
4. Bundles with the C1 compiler were tested on ARMv6/ARMv7/ARMv8 hardware.




Bundles with both C1 and C2 compilers were tested on ARMv7/ARMv8 hardware.







5. Bundles with the CRaM (with the `cr` suffix) functionality require glibc 2.13.
6. Bundles with the C1 compiler use FPU, if it is present and available, to speed up floating point operations. Bundles with both C1 and C2 compilers require FPU.
7. Bundles with the C1 compiler. Tested on ARMv5 hardware.
8. Bundles with the C1 compiler were tested on ARMv6 and ARMv7 hardware. Bundles with both C1 and C2 compilers were tested on ARMv7 hardware.
9. MIPS32r2 ISA, Big Endian, FPU in 32-bit mode or equivalent emulation.
10. Linux soft-float O32 MIPS ABI
11. Bundles for this platform were tested on QorIQ® T4240-RDB.
12. Hard-Float EABI bundles were tested on QorIQ® T1024RDB. SPE ABI bundles were tested on NXP® P2020RDB.
















Azul Zulu Builds of OpenJDK With CRaC

NOTE

Currently, CRaC is only available for the specified Linux systems, in the versions listed below of Azul Zulu Builds of OpenJDK. For development, you can use the CRaC Java library on any platform and simulate the CRaC functionality.

-  : Build of OpenJDK with full CRaC support.
-  : Build of OpenJDK with full CRaC support and the Warp engine. Currently available on Linux on `x86_64` (using `GLIBC`), and as preview (EA) for Alpine Linux.
-  : Build of OpenJDK with CRaC support for development purposes. These provide a simulated checkpoint/restore mechanism to be used for development and testing.

Operating System	Azul Zulu Version					
	17		21		23	
	x86 64-bit	ARM 64-bit	x86 64-bit	ARM 64-bit	x86 64-bit	ARM 64-bit
Linux						

Alpine Linux 3.16						
Windows		n/a		n/a		n/a
macOS						

Fixed Issues

This section covers all issues that were fixed in this release.

Fixed Common Vulnerabilities and Exposures

NOTE | The full CVE list will be available in V1.0 of this release notes document.

Non-CVE Security Fixes

NOTE

The full Non-CVE Security Fixes list will be available in V1.0 of this release notes document.

OpenJDK Fixes and Enhancements

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

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8189131	6	Open-source the Oracle JDK Root Certificates	CPU,PSU
JDK-8189949	6	Remove Baltimore Cybertrust Code Signing CA	CPU,PSU
JDK-8191031	6	Remove several Symantec Root CAs	CPU,PSU
JDK-8191844	6	Remove SECOM root (secomevrootca1)	CPU,PSU
JDK-8195774	6	Add Entrust root certificates	CPU,PSU
JDK-8195793	6	Remove GTE CyberTrust Global Root	CPU,PSU
JDK-8196141	6	Add GoDaddy root certificates	CPU,PSU
JDK-8199779	6	Add T-Systems, GlobalSign and Starfield services root certificates	CPU,PSU
JDK-8204923	6	Restore Symantec root verisignclass2g2ca	CPU,PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8209506	6	Add Google Trust Services GlobalSign root certificates	CPU,PSU
JDK-8210432	6	Add additional TeliaSonera root certificate	CPU,PSU
JDK-8216577	6	Add GlobalSign's R6 Root certificate	CPU,PSU
JDK-8222136	6	Remove two Comodo root CA certificates that are expiring	CPU,PSU
JDK-8222137	6	Remove T-Systems root CA certificate	CPU,PSU
JDK-8223499	6	Remove two DocuSign root certificates that are expiring	CPU,PSU
JDK-8223555	6	Cleanups in cacerts tests	CPU,PSU
JDK-8225068	6	Remove DocuSign root certificate that is expiring in May 2020	CPU,PSU
JDK-8225069	6	Remove Comodo root certificate that is expiring in May 2020	CPU,PSU
JDK-8225072	6	Add LuxTrust certificate that is expiring in March 2021 to list of allowed but expired certs	CPU,PSU
JDK-8225081	6	Remove Telia Company CA certificate expiring in April 2021	CPU,PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8225082	6	Remove IdenTrust certificate that is expiring in September 2021	CPU,PSU
JDK-8225083	6	Remove Google certificate that is expiring in December 2021	CPU,PSU
JDK-8225128	6	Add exception for expiring DocuSign root to VerifyCACerts test	CPU,PSU
JDK-8225130	6	Add exception for expiring Comodo roots to VerifyCACerts test	CPU,PSU
JDK-8232019	6	Add LuxTrust certificate updates to the existing root program	CPU,PSU
JDK-8233223	6	Add Amazon Root CA certificates	CPU,PSU
JDK-8234245	6	sun/security/lib/cacerts/VerifyCACerts.java fails due to wrong checksum	CPU,PSU
JDK-8239105	6	Add exception for expiring Digicert root certificates to VerifyCACerts test	CPU,PSU
JDK-8243320	6	Add SSL root certificates to Oracle Root CA program	CPU,PSU
JDK-8243321	6	Add Entrust root CA - G4 to Oracle Root CA program	CPU,PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8243559	6	Remove root certificates with 1024-bit keys	CPU,PSU
JDK-8245654	6	Add Certigna Root CA	CPU,PSU
JDK-8256421	6	Add 2 HARICA roots to cacerts truststore	CPU,PSU
JDK-8258630	6	Add expiry exception for QuoVadis root certificate	CPU,PSU
JDK-8259312	6	VerifyCACerts.java fails as soneraclass2ca cert will expire in 90 days	CPU,PSU
JDK-8259338	6	Add expiry exception for identrustdstx3 alias to VerifyCACerts.java test	CPU,PSU
JDK-8277488	6	Add expiry exception for Digicert (geotrustglobalca) expiring in May 2022	CPU,PSU
JDK-8295894	6	Remove SECOM certificate that is expiring in September 2023	CPU,PSU
JDK-8297955	6	LDAP CertStore should use LdapName and not String for DNs	CPU,PSU
JDK-8304760	6	Add 2 Microsoft TLS roots	CPU,PSU
JDK-8305975	6	Add TWCA Global Root CA	CPU,PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8307134	6	Add GTS root CAs	CPU,PSU
JDK-8312126	6	NullPointerException in CertStore.getCRLs after 8297955	CPU,PSU
JDK-8314960	6	Add Certigna Root CA - 2	CPU,PSU
JDK-8316138	6	Add GlobalSign 2 TLS root certificates	CPU,PSU
JDK-8317373	6	Add Telia Root CA v2	CPU,PSU
JDK-8317374	6	Add Let's Encrypt ISRG Root X2	CPU,PSU
JDK-8318759	6	Add four DigiCert root certificates	CPU,PSU
JDK-8319187	6	Add three eMudhra emSign roots	CPU,PSU
JDK-8321408	6	Add Certainly roots R1 and E1	CPU,PSU
JDK-8335912	6, 7, 8, 11, 17, 21, 23	Add an operation mode to the jar command when extracting to not overwriting existing files	CPU,PSU
JDK-8339637	6, 7, 8, 11, 17, 21, 23	(tz) Update Timezone Data to 2024b	CPU,PSU
JDK-8339644	6, 7, 8, 11, 17, 21, 23	Improve parsing of Day/Month in tzdata rules	CPU,PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8339803	8, 11, 17, 21, 23	Acknowledge case insensitive unambiguous keywords in tzdata files	CPU,PSU
JDK-8341057	6, 7, 8, 11, 17, 21, 23	Add 2 SSL.com TLS roots	CPU,PSU
JDK-6942632	21	Hotspot should be able to use more than 64 logical processors on Windows	PSU
JDK-6967482	23	TAB-key does not work in JTables after selecting details-view in JFileChooser	PSU
JDK-7093691	17	Nimbus LAF: disabled JComboBox using renderer has bad font color	PSU
JDK-8028127	17, 21, 23	Regtest java/security/Security/SynchronizedAccess.java is incorrect	PSU
JDK-8048003	8	test/compiler/8009761/Test8009761.java failed with: java.lang.RuntimeException: static java.lang.Object Test8009761.m3(boolean,boolean) not compiled	PSU
JDK-8058322	8	Zero name_index item of MethodParameters attribute cause MalformedParameterException.	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8066708	8	JMXStartStopTest fails to connect to port 38112	PSU
JDK-8071693	17	Introspector ignores default interface methods	PSU
JDK-8133287	8	(fs) java/nio/file/Files/probeContentType/ParallelProbes.java should use othervm mode	PSU
JDK-8166352	23	FilePane.createDetailsView() removes JTable TAB, SHIFT-TAB functionality	PSU
JDK-8179502	17	Enhance OCSP, CRL and Certificate Fetch Timeouts	PSU
JDK-8189687	8	Swing: Invalid position of candidate pop-up of InputMethod in Hi-DPI on Windows	PSU
JDK-8195675	17, 21	Call to insertText with single character from custom Input Method ignored	PSU
JDK-8196770	8	Add JNDI test com/sun/jndi/ldap/blits/AddTests/AddNewEntry.java	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8202926	17	Test java/awt/Focus/WindowUpdateFocusabilityTest/WindowUpdateFocusabilityTest.html fails	PSU
JDK-8207908	17, 21	JMXStatusTest.java fails assertion intermittently	PSU
JDK-8209023	8	fix 2 compiler tests to avoid JDK-8208690	PSU
JDK-8211920	11	Close server socket and cleanups in test/jdk/javax/naming/module/RunBasic.java	PSU
JDK-8224624	11	Inefficiencies in CodeStrings::add_comment cause timeouts	PSU
JDK-8225045	11	javax/swing/JInternalFrame/8146321/JInternalFramelconTest.java fails on linux-x64	PSU
JDK-8225220	17, 21	When the Tab Policy is checked,the scroll button direction displayed incorrectly.	PSU
JDK-8232367	11	Update Reactive Streams to 1.0.3 – tests only	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8233364	8	Fix undefined behavior in Canonicalizer::do_ShiftOp	PSU
JDK-8239312	8	[macOS] javax/swing/JFrame/NSTexturedJFrame/ NSTexturedJFrame.java	PSU
JDK-8240343	17, 21	JDI stopListening/stoplis001 "FAILED: listening is successfully stopped without starting listening"	PSU
JDK-8242999	11	HTTP/2 client may not handle CONTINUATION frames correctly	PSU
JDK-8247706	11	Unintentional use of new Date(year...) with absolute year	PSU
JDK-8251188	8, 11	Update LDAP tests not to use wildcard addresses	PSU
JDK-8254759	17	[TEST_BUG] [macosx] javax/swing/JInternalFrame/4202966/Int FrameCoord.html fails	PSU
JDK-8258734	17	jdk/jfr/event/oldobject/TestClassLoaderL eak.java failed with "RuntimeException: Could not find class leak"	PSU
JDK-8260380	8	Upgrade to LittleCMS 2.12	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8263031	11, 17	HttpClient throws Exception if it receives a Push Promise that is too large	PSU
JDK-8268364	17	jmethod clearing should be done during unloading	PSU
JDK-8269770	17	nsk tests should start IOPipe channel before launch debuggee - Debuggee.prepareDebuggee	PSU
JDK-8271003	17	hs_err improvement: handle CLASSPATH env setting longer than O_BUFLLEN	PSU
JDK-8271456	17	Avoid looking up standard charsets in "java.desktop" module	PSU
JDK-8271821	17	mark hotspot runtime/MinimalVM tests which ignore external VM flags	PSU
JDK-8271825	17	mark hotspot runtime/LoadClass tests which ignore external VM flags	PSU
JDK-8271836	17	runtime/ErrorHandler/ClassPathEnvVar.java fails with release VMs	PSU
JDK-8272746	17	ZipFile can't open big file (NegativeArraySizeException)	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8273914	17	Indy string concat changes order of operations	PSU
JDK-8274505	17	Too weak variable type leads to unnecessary cast in java.desktop	PSU
JDK-8276763	17	java/nio/channels/SocketChannel/AdaptorStreams.java fails with "SocketTimeoutException: Read timed out"	PSU
JDK-8278527	17	java/util/concurrent/tck/JSR166TestCase.java fails nanoTime test	PSU
JDK-8280131	17	jcmm reports "Module jdk.jfr not found." when "jdk.management.jfr" is missing	PSU
JDK-8281379	17	Assign package declarations to all jtreg test cases under gc	PSU
JDK-8282578	17	AIOOBE in javax.sound.sampled.Clip	PSU
JDK-8283214	17, 21	[macos] Screen magnifier does not show the magnified text for JComboBox	PSU
JDK-8283222	17	improve diagnosability of runtime/8176717/TestInheritFD.java timeouts	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8284291	17	sun/security/krb5/auto/Renew.java fails intermittently on Windows 11	PSU
JDK-8284585	11, 17	PushPromiseContinuation test fails intermittently in timeout	PSU
JDK-8284874	17	Add comment to ProcessHandle/OnExitTest to describe zombie problem	PSU
JDK-8286160	17	(fs) Files.exists returns unexpected results with C:\pagefile.sys because it's not readable	PSU
JDK-8287003	17	InputStreamReader::read() can return zero despite writing a char in the buffer	PSU
JDK-8288976	17	classfile parser 'wrong name' error message has the names the wrong way around	PSU
JDK-8289184	17	runtime/ClassUnload/DictionaryDependsTest.java failed with "Test failed: should be unloaded"	PSU
JDK-8290023	17	Remove use of IgnoreUnrecognizedVMOptions in gc tests	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8290269	17	gc/shenandoah/TestVerifyJCStress.java fails due to invalid tag: required after JDK-8290023	PSU
JDK-8290367	8, 11, 17	Update default value and extend the scope of com.sun.jndi.ldap.object.trustSerialData system property	PSU
JDK-8292044	11, 17	HttpClient doesn't handle 102 or 103 properly	PSU
JDK-8292309	17	Fix java/awt/PrintJob/ConstrainedPrintingTest/ConstrainedPrintingTest.java test	PSU
JDK-8293061	17	Combine CDSOptions and AppCDSOptions test utility classes	PSU
JDK-8293877	17	Rewrite MineField test	PSU
JDK-8294193	17	Files.createDirectories throws FileAlreadyExistsException for a symbolic link whose target is an existing directory	PSU
JDK-8294726	17	Update URLs in minefield tests	PSU
JDK-8295239	17	Refactor java/util/Formatter/Basic script into a Java native test launcher	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8295344	17	Harden runtime/StackGuardPages/TestStackGuardPages.java	PSU
JDK-8295859	17	Update Manual Test Groups	PSU
JDK-8296410	11, 17	HttpClient throws java.io.IOException: no statuscode in response for HTTP2	PSU
JDK-8296709	17	WARNING JNI call made without checking exceptions	PSU
JDK-8296718	17	Refactor bootstrap Test Common Functionalities to test/lib/Utils	PSU
JDK-8296787	17, 21	Unify debug printing format of X.509 cert serial numbers	PSU
JDK-8296972	17, 21	[macos13] java/awt/Frame/MaximizedToIconified/MaximizedToIconified.java: getExtendedState() != 6 as expected.	PSU
JDK-8298513	17	vmTestbase/nsk/jdi/EventSet/suspendPolicy/suspendpolicy009/TestDescription.java fails with usage tracker	PSU
JDK-8299234	17	JMX Repository.query performance	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8299254	11	Support dealing with standard assert macro	PSU
JDK-8299813	23	java/nio/channels/DatagramChannel/Disconnect.java fails with jtreg test timeout due to lost datagram	PSU
JDK-8300416	17	java.security.MessageDigestSpi clone can result in thread-unsafe clones	PSU
JDK-8301379	17	Verify TLS_ECDH_* cipher suites cannot be negotiated	PSU
JDK-8302225	17	SunJCE Provider doesn't validate key sizes when using 'constrained' transforms for AES/KW and AES/KWP	PSU
JDK-8303697	17	ProcessTools doesn't print last line of process output	PSU
JDK-8303705	17	Field sleeper.started should be volatile JdbLockTestTarg.java	PSU
JDK-8303742	17	CompletableFuture.orTimeout leaks if the future completes exceptionally	PSU
JDK-8303920	11	Avoid calling out to python in DataDescriptorSignatureMissing test	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8303965	11, 17	java.net.http.HttpClient should reset the stream if response headers contain malformed header fields	PSU
JDK-8304020	17	Speed up test/jdk/java/util/zip/ZipFile/TestTooManyEntries.java and clarify its purpose	PSU
JDK-8304557	17	java/util/concurrent/CompletableFuture/CompletableFutureOrTimeoutExceptionallyTest.java times out	PSU
JDK-8306015	17	Update sun.security.ssl TLS tests to use SSLContextTemplate or SSLEngineTemplate	PSU
JDK-8306446	21	java/lang/management/ThreadMXBean/Locks.java transient failures	PSU
JDK-8307297	17	Move some DnD tests to open	PSU
JDK-8307408	17	Some jdk/sun/tools/jhsdb tests don't pass test JVM args to the debuggee JVM	PSU
JDK-8308429	21	jvmti/StopThread/stopthrd007 failed with "NoClassDefFoundError: Could not initialize class jdk.internal.misc.VirtualThreads"	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8309109	17	AArch64: [TESTBUG] compiler/intrinsics/sha/cli/TestUseSHA3IntrinsicsOptionOnSupportedCPU.java fails on Neoverse N2 and V1	PSU
JDK-8309218	21	java/util/concurrent/locks/Lock/OOMEInAQS.java still times out with ZGC, Generational ZGC, and SerialGC	PSU
JDK-8309303	17	jdk/internal/misc/VM/RuntimeArguments test ignores jdk/internal/vm/options	PSU
JDK-8309532	17	java/lang/Class/getDeclaredField/FieldSetAccessibleTest should filter modules that depend on JVMCI	PSU
JDK-8310072	17	JComboBox/DisabledComboBoxFontTest Auto: Enabled and disabled ComboBox does not match in these LAFs: GTK+	PSU
JDK-8310731	17	Configure a javax.net.ssl.SNIMatcher for the HTTP/1.1 test servers in java/net/httpclient tests	PSU
JDK-8311301	21	MethodExitTest may fail with stack buffer overrun	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8311656	21	Shenandoah: Unused ShenandoahSATBAndRemarkThreadsClosure::_claim_token	PSU
JDK-8312111	17	open/test/jdk/java/awt/Robot/ModifierRobotKey/ModifierRobotKeyTest.java fails on ubuntu 23.04	PSU
JDK-8312518	21	[macos13] setFullScreenWindow() shows black screen on macOS 13 & above	PSU
JDK-8313626	8	C2 crash due to unexpected exception control flow	PSU
JDK-8313638	17	Add test for dump of resolved references	PSU
JDK-8313854	17	Some tests in serviceability area fail on localized Windows platform	PSU
JDK-8313878	17, 21	Exclude two compiler/rtm/locking tests on ppc64le	PSU
JDK-8314333	17	Update com/sun/jdi/ProcessAttachTest.java to use ProcessTools.createTestJvm(..)	PSU
JDK-8314824	17	Fix serviceability/jvmti/8036666/GetObjectLockCount.java to use vm flags	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8314829	17	serviceability/sa/jmap-hprof/JMapHProfLargeHeapTest.java ignores vm flags	PSU
JDK-8314831	17	NMT tests ignore vm flags	PSU
JDK-8315097	17	Rename createJavaProcessBuilder	PSU
JDK-8315406	17	[REDO] serviceability/jdwp/AllModulesCommandTest.java ignores VM flags	PSU
JDK-8315701	21	[macos] Regression: KeyEvent has different keycode on different keyboard layouts	PSU
JDK-8315731	8	Open source several Swing Text related tests	PSU
JDK-8315936	11	Parallelize gc/stress/TestStressG1Humongous.java test	PSU
JDK-8315988	17	Parallel: Make TestAggressiveHeap use createTestJvm	PSU
JDK-8316193	11	jdk/jfr/event/oldobject/TestListenerLeak.java java.lang.Exception: Could not find leak	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8316410	17	GC: Make TestCompressedClassFlags use createTestJvm	PSU
JDK-8316428	21	G1: Nmethod count statistics only count last code root set iterated	PSU
JDK-8316446	17	4 sun/management/jdp tests ignore VM flags	PSU
JDK-8316447	17	8 sun/management/jmxremote tests ignore VM flags	PSU
JDK-8316464	17	3 sun/tools tests ignore VM flags	PSU
JDK-8316562	17	serviceability/sa/jmap-hprof/JMapHProfLargeHeapTest.java times out after JDK-8314829	PSU
JDK-8316581	17	Improve performance of Symbol::print_value_on()	PSU
JDK-8316895	21	SeenThread::print_action_queue called on a null pointer	PSU
JDK-8316907	21	Fix nonnull-compare warnings	PSU
JDK-8317042	17	G1: Make TestG1ConcMarkStepDurationMillis use createTestJvm	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8317116	17, 21, 23	Provide layouts for multiple test UI in PassFailJFrame	PSU
JDK-8317188	17	G1: Make TestG1ConcRefinementThreads use createTestJvm	PSU
JDK-8317218	17	G1: Make TestG1HeapRegionSize use createTestJvm	PSU
JDK-8317347	17	Parallel: Make TestInitialTenuringThreshold use createTestJvm	PSU
JDK-8317575	21	AArch64: C2_MacroAssembler::fast_lock uses rscratch1 for cmpxchg result	PSU
JDK-8317738	17	CodeCacheFullCountTest failed with "VirtualMachineError: Out of space in CodeCache for method handle intrinsic"	PSU
JDK-8318105	21	[jmh] the test java.security.HSS failed with 2 active threads	PSU
JDK-8318442	21	java/net/httpclient/ManyRequests2.java fails intermittently on Linux	PSU
JDK-8318964	17	Fix build failures caused by 8315097	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8319574	17	Exec/process tests should be marked as flagless	PSU
JDK-8319640	17, 21	ClassicFormat::parseObject (from DateTimeFormatter) does not conform to the javadoc and may leak DateTimeException	PSU
JDK-8319651	17	Several network tests ignore vm flags when start java process	PSU
JDK-8319673	21	Few security tests ignore VM flags	PSU
JDK-8319678	21	Several tests from corelibs areas ignore VM flags	PSU
JDK-8319817	17	Charset constructor should make defensive copy of aliases	PSU
JDK-8319933	23	Disable tests for JDK-8280481 on Graal	PSU
JDK-8319960	21	RISC-V: compiler/intrinsics/TestInteger/LongUnsignedDivMod.java failed with "counts: Graph contains wrong number of nodes"	PSU
JDK-8319970	21	AArch64: enable tests compiler/intrinsics/Test(Long Integer)UnsignedDivMod.java on aarch64	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8319973	21	AArch64: Save and restore FPCR in the call stub	PSU
JDK-8320192	21	SHAKE256 does not work correctly if n >= 137	PSU
JDK-8320397	21	RISC-V: Avoid passing t0 as temp register to MacroAssembler: cmpxchg_obj_header/cmpxchgptr	PSU
JDK-8320575	21	generic type information lost on mandated parameters of record's compact constructors	PSU
JDK-8320586	17, 21	update manual test/jdk/TEST.groups	PSU
JDK-8320665	17, 21	update jdk_core at open/test/jdk/TEST.groups	PSU
JDK-8320673	17, 21	PageFormat/CustomPaper.java has no Pass/Fail buttons; multiple instructions	PSU
JDK-8320675	17	PrinterJob/SecurityDialogTest.java hangs	PSU
JDK-8320682	21	[AArch64] C1 compilation fails with "Field too big for insn"	PSU
JDK-8320892	21	AArch64: Restore FPU control state after JNI	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8321163	17	[test] OutputAnalyzer.getExitValue() unnecessarily logs even when process has already completed	PSU
JDK-8321299	17, 21	runtime/logging/ClassLoadUnloadTest.java doesn't reliably trigger class unloading	PSU
JDK-8321470	17, 21	ThreadLocal.nextHashCode can be static final	PSU
JDK-8321474	21	TestAutoCreateSharedArchiveUpgrade.java should be updated with JDK 21	PSU
JDK-8321509	23	False positive in get_trampoline fast path causes crash	PSU
JDK-8321543	17, 21	Update NSS to version 3.96	PSU
JDK-8321550	21	Update several runtime/cds tests to use vm flags or mark as flagless	PSU
JDK-8321616	17, 21	Retire binary test vectors in test/jdk/java/util/zip/ZipFile	PSU
JDK-8321940	21	Improve CDSHeapVerifier in handling of interned strings	PSU
JDK-8322166	21	Files.isReadable/isWritable/isExecutable expensive when file does not exist	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8322754	17, 21	click JComboBox when dialog about to close causes IllegalComponentStateException	PSU
JDK-8322766	17	Micro bench SSLHandshake should use default algorithms	PSU
JDK-8322809	17, 21	SystemModulesMap::classNames and moduleNames arrays do not match the order	PSU
JDK-8322830	17, 21	Add test case for ZipFile opening a ZIP with no entries	PSU
JDK-8323562	17, 21	SaslInputStream.read() may return wrong value	PSU
JDK-8323688	17, 21, 23	C2: Fix UB of jlong overflow in PhaseldealLoop::is_counted_loop()	PSU
JDK-8324672	23	Update jdk/java/time/tck/java/time/TCKInstant.java now() to be more robust	PSU
JDK-8324808	17	Manual printer tests have no Pass/Fail buttons, instructions close set 3	PSU
JDK-8324841	17, 21	PKCS11 tests still skip execution	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8324861	21	Exceptions::wrap_dynamic_exception() doesn't have ResourceMark	PSU
JDK-8325038	17, 21	runtime/cds/appcnds/ProhibitedPackage.java can fail with UseLargePages	PSU
JDK-8325399	21	Add tests for virtual threads doing Selector operations	PSU
JDK-8325506	21	Ensure randomness is only read from provided SecureRandom object	PSU
JDK-8325525	17, 21, 23	Create jtreg test case for JDK-8325203	PSU
JDK-8325587	17	Shenandoah: ShenandoahLock should allow blocking in VM	PSU
JDK-8325610	17, 21	CTW: Add StressIncrementalInlining to stress options	PSU
JDK-8325616	17	JFR ZGC Allocation Stall events should record stack traces	PSU
JDK-8325762	17, 21	Use PassFailJFrame.Builder.splitUI() in PrintLatinCJKTest.java	PSU
JDK-8325851	17, 21	Hide PassFailJFrame.Builder constructor	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8325906	21	Problemlist vmTestbase/vm/mlvm/meth/stress/compiler/deoptimize/Test.java#id1 until JDK-8320865 is fixed	PSU
JDK-8325937	23	runtime/handshake/HandshakeDirectTest.java causes "monitor end should be strictly below the frame pointer" assertion failure on AArch64	PSU
JDK-8326100	17, 21	DeflaterDictionaryTests should use Deflater.getBytesWritten instead of Deflater.getTotalOut	PSU
JDK-8326121	17, 21	vmTestbase/gc/g1/unloading/tests/unloading_keepRef_rootClass_inMemoryCompilation_keep_cl failed with Full gc happened. Test was useless.	PSU
JDK-8326611	17, 21	Clean up vmTestbase/nsk/stress/stack tests	PSU
JDK-8326616	23	tools/javac/patterns/Exhaustiveness.java intermittently Timeout signalled after 480 seconds	PSU
JDK-8326898	17, 21	NSK tests should listen on loopback addresses only	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8326948	17	Force English locale for timeout formatting	PSU
JDK-8327401	17	Some jtreg tests fail on Wayland without any tracking bug	PSU
JDK-8327474	17	Review use of java.io.tmpdir in jdk tests	PSU
JDK-8327924	17, 21	Simplify TrayIconScalingTest.java	PSU
JDK-8328021	17, 21	Convert applet test java/awt/List/SetFontTest/SetFontTest.html to main program	PSU
JDK-8328242	17, 21	Add a log area to the PassFailJFrame	PSU
JDK-8328300	11	Convert PrintDialogsTest.java from Applet to main program	PSU
JDK-8328303	17, 21	3 JDI tests timed out with UT enabled	PSU
JDK-8328379	17, 21	Convert URLDragTest.html applet test to main	PSU
JDK-8328402	17, 21	Implement pausing functionality for the PassFailJFrame	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8328619	17, 21	sun/management/jmxremote/bootstrap/SSLConfigFilePermissionTest.java failed with BindException: Address already in use	PSU
JDK-8328642	11	Convert applet test MouseDraggedOutCauseScrollingTest.html to main	PSU
JDK-8328665	21	serviceability/jvmti/vthread/PopFrameTest failed with a timeout	PSU
JDK-8328697	17	SubMenuShowTest and SwallowKeyEvents tests stabilization	PSU
JDK-8328895	21, 23	JFileChooser is very slow to open folders with many files	PSU
JDK-8328957	17	Update PKCS11Test.java to not use hardcoded path	PSU
JDK-8329353	21	ResolvedReferencesNotNullTest.java failed with Incorrect resolved references array, quxString should not be archived	PSU
JDK-8329533	21	TestCDSVMCrash fails on libgraal	PSU
JDK-8330278	17, 21	Have SSLSocketTemplate.doClientSide use loopback address	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8330464	17	hserr generic events - add entry for the before_exit calls	PSU
JDK-8330621	17, 21	Make 5 compiler tests use ProcessTools.executeProcess	PSU
JDK-8330702	23	Update failure handler to don't generate Error message if cores actions are empty	PSU
JDK-8330814	17	Cleanups for KeepAliveCache tests	PSU
JDK-8331142	17	Add test for number of loader threads in BasicDirectoryModel	PSU
JDK-8331391	17, 21, 23	Enhance the keytool code by invoking the buildTrustedCerts method for essential options	PSU
JDK-8331393	21	AArch64: u32 _partial_subtype_ctr loaded/stored as 64	PSU
JDK-8331405	17	Shenandoah: Optimize ShenandoahLock with TTAS	PSU
JDK-8331411	17, 23	Shenandoah: Reconsider spinning duration in ShenandoahLock	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8331495	17	Limit BasicDirectoryModel/LoaderThreadCount.java to Windows only	PSU
JDK-8331626	17	unsafe.cpp:162:38: runtime error in index_oop_from_field_offset_long - applying non-zero offset 4563897424 to null pointer	PSU
JDK-8331789	17	ubsan: deoptimization.cpp:403:29: runtime error: load of value 208, which is not a valid value for type 'bool'	PSU
JDK-8331863	17	DUIterator_Fast used before it is constructed	PSU
JDK-8331864	17, 21	Update Public Suffix List to 1cbd6e7	PSU
JDK-8331999	17	BasicDirectoryModel/LoaderThreadCount.java frequently fails on Windows in CI	PSU
JDK-8332112	21	Update nsk.share.Log to don't print summary during VM shutdown hook	PSU
JDK-8332113	23	Update nsk.share.Log to be always verbose	PSU
JDK-8332340	17, 21	Add JavacBench as a test case for CDS	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8332461	21, 23	ubsan : dependencies.cpp:906:3: runtime error: load of value 4294967295, which is not a valid value for type 'DepType'	PSU
JDK-8332473	17	ubsan: growableArray.hpp:290:10: runtime error: null pointer passed as argument 1, which is declared to never be null	PSU
JDK-8332524	23	Instead of printing "TLSv1.3," it is showing "TLS13"	PSU
JDK-8332589	17	ubsan: unix/native/libjava/ProcessImpl_md.c:562:5: runtime error: null pointer passed as argument 2, which is declared to never be null	PSU
JDK-8332697	23	ubsan: shenandoahSimpleBitMap.inline.hpp:68:23: runtime error: signed integer overflow: -9223372036854775808 - 1 cannot be represented in type 'long int'	PSU
JDK-8332699	23	ubsan: jfrEventSetting.inline.hpp:31:43: runtime error: index 163 out of bounds for type 'jfrNativeEventSetting [162]'	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8332720	17	ubsan: instanceKlass.cpp:3550:76: runtime error: member call on null pointer of type 'struct Array'	PSU
JDK-8332724	17, 21	x86 MacroAssembler may over-align code	PSU
JDK-8332777	17, 21	Update JCTest suite	PSU
JDK-8332818	23	ubsan: archiveHeapLoader.cpp:70:27: runtime error: applying non-zero offset 18446744073707454464 to null pointer	PSU
JDK-8332825	17	ubsan: guardedMemory.cpp:35:11: runtime error: null pointer passed as argument 2, which is declared to never be null	PSU
JDK-8332866	17, 21	Crash in ImageIO JPEG decoding when MEM_STATS is enabled	PSU
JDK-8332901	17, 21, 23	Select{Current,New}ItemTest.java for Choice don't open popup on macOS	PSU
JDK-8332903	17, 23	ubsan: opto/output.cpp:1002:18: runtime error: load of value 171, which is not a valid value for type 'bool'	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8332904	17	ubsan ppc64le: c1_LIRGenerator_ppc.cpp:581:21: runtime error: signed integer overflow: 9223372036854775807 + 1 cannot be represented in type 'long int'	PSU
JDK-8332935	17	Crash: assert(*lastPtr != 0) failed: Mismatched JNINativeInterface tables, check for new entries	PSU
JDK-8333088	23	ubsan: shenandoahAdaptiveHeuristics.cpp:245:4 4: runtime error: division by zero	PSU
JDK-8333098	21, 23	ubsan: bytecodeInfo.cpp:318:59: runtime error: division by zero	PSU
JDK-8333108	21	Update vmTestbase/nsk/share/DebuggeeProcess.java to don't use finalization	PSU
JDK-8333144	21	docker tests do not work when ubsan is configured	PSU
JDK-8333235	21	vmTestbase/nsk/jdb/kill/kill001/kill001.java fails with C1	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8333248	21, 23	VectorGatherMaskFoldingTest.java failed when maximum vector bits is 64	PSU
JDK-8333277	23	ubsan: mlib_ImageScanPoly.c:292:43: runtime error: division by zero	PSU
JDK-8333306	23	gc/arguments/TestParallelGCergo.java fails when largepage are enabled	PSU
JDK-8333317	17, 21, 23	Test sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java failed with: Invalid ECDH ServerKeyExchange signature	PSU
JDK-8333354	23	ubsan: frame.inline.hpp:91:25: and src/hotspot/share/runtime/frame.inline.hpp:88:29: runtime error: member call on null pointer of type 'const struct SmallRegisterMap'	PSU
JDK-8333361	23	ubsan,test : libHeapMonitorTest.cpp:518:9: runtime error: null pointer passed as argument 2, which is declared to never be null	PSU
JDK-8333363	23	ubsan: instanceKlass.cpp: runtime error: member call on null pointer of type 'struct AnnotationArray'	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8333391	23	Test com/sun/jdi/InterruptHangTest.java failed: Thread was never interrupted during sleep	PSU
JDK-8333427	21	langtools/tools/javac/newlines/NewLineTest.java is failing on Japanese Windows	PSU
JDK-8333522	23	JFR SwapSpace event might read wrong free swap space size	PSU
JDK-8333639	23	ubsan: cppVtables.cpp:81:55: runtime error: index 14 out of bounds for type 'long int [1]'	PSU
JDK-8333652	23	RISC-V: compiler/vectorapi/VectorGatherMaskFoldingTest.java fails when using RVV	PSU
JDK-8333716	23	Shenandoah: Check for disarmed method before taking the nmethod lock	PSU
JDK-8333728	21, 23	ubsan: shenandoahFreeSet.cpp:1347:24: runtime error: division by zero	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8333730	23	ubsan: FieldIndices/libFieldIndicesTest.cpp:276:1 1: runtime error: null pointer passed as argument 2, which is declared to never be null	PSU
JDK-8333754	21, 23	Add a Test against ECDSA and ECDH NIST Test vector	PSU
JDK-8333791	23	Fix memory barriers for @Stable fields	PSU
JDK-8333824	17, 21, 23	Unused ClassValue in VarHandles	PSU
JDK-8333887	23	ubsan: unsafe.cpp:247:13: runtime error: store to null pointer of type 'volatile int'	PSU
JDK-8334057	17, 21, 23	JLinkReproducibleTest.java support receive test.tool.vm.opts	PSU
JDK-8334123	23	log the opening of Type 1 fonts	PSU
JDK-8334147	23	Shenandoah: Avoid taking lock for disabled free set logging	PSU
JDK-8334229	23	Optimize InterpreterOopMap layout	PSU
JDK-8334239	23	Introduce macro for ubsan method/function exclusions	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8334332	11	TestIOException.java fails if run by root	PSU
JDK-8334405	17, 21, 23	java/nio/channels/Selector/SelectWithConsumer.java#id0 failed in testWakeupDuringSelect	PSU
JDK-8334475	21	UnsafeIntrinsicsTest.java#ZGenerationalDebug assert(!assert_on_failure) failed: Has low-order bits set	PSU
JDK-8334482	23	Shenandoah: Deadlock when safepoint is pending during nmethods iteration	PSU
JDK-8334560	21, 23	[PPC64]: postalloc_expand_java_dynamic_call_scheduled does not copy all fields	PSU
JDK-8334562	17, 21, 23	Automate com/sun/security/auth/callback/TextCallbackHandler/Default.java test	PSU
JDK-8334564	23	VM startup: fatal error: FLAG_SET_ERGO cannot be used to set an invalid value for NonNMethodCodeHeapSize	PSU
JDK-8334567	17, 21, 23	[test] runtime/os/TestTracePageSizes move ppc handling	PSU
JDK-8334653	23	ISO 4217 Amendment 177 Update	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8334719	21	(se) Deferred close of SelectableChannel may result in a Selector doing the final close before concurrent I/O on channel has completed	PSU
JDK-8334769	23	Shenandoah: Move CodeCache_lock close to its use in ShenandoahConcurrentNMethodIterator	PSU
JDK-8335007	23	Inline OopMapCache table	PSU
JDK-8335142	17, 21, 23	compiler/c1/TestTraceLinearScanLevel.java occasionally times out with -Xcomp	PSU
JDK-8335150	23	Test LogGeneratedClassesTest.java fails on rpmbuild mock environment	PSU
JDK-8335172	21, 23	Add manual steps to run security/auth/callback/TextCallbackHandler/Password.java test	PSU
JDK-8335237	23	ubsan: vtableStubs.hpp is_vtable_stub exclude from ubsan checks	PSU
JDK-8335267	17, 21, 23	[XWayland] move screencast tokens from .awt to .java folder	PSU
JDK-8335283	23	Build failure due to 'no_sanitize' attribute directive ignored	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8335344	17, 21, 23	test/jdk/sun/security/tools/keytool/NssTest.java fails to compile	PSU
JDK-8335397	23	Improve reliability of TestRecursiveMonitorChurn.java	PSU
JDK-8335449	17, 21, 23	runtime/cds/DeterministicDump.java fails with File content different at byte ...	PSU
JDK-8335493	17, 23	check_gc_overhead_limit should reset SoftRefPolicy::_should_clear_all_soft_refs	PSU
JDK-8335530	17, 21, 23	Java file extension missing in AuthenticatorTest	PSU
JDK-8335536	23	Fix assertion failure in IdealGraphPrinter when append is true	PSU
JDK-8335664	21, 23	Parsing jsr broken: assert(bci >= 0 && bci < cmethod().code_size()) failed: index out of bounds	PSU
JDK-8335709	17, 21, 23	C2: assert(!loop.is_member(get_loop(useblock))) failed: must be outside loop	PSU
JDK-8335743	23	jhsdb jstack cannot print some information on the waiting thread	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8335775	23	Remove extraneous 's' in comment of rawmonitor.cpp test file	PSU
JDK-8335789	23	[TESTBUG] XparColor.java test fails with Error. Parse Exception: Invalid or unrecognized bugid: @	PSU
JDK-8335904	17, 23	Fix invalid comment in ShenandoahLock	PSU
JDK-8336148	23	Test runtime/locking/TestRecursiveMonitorChurn.java failed: Unexpected Inflation	PSU
JDK-8336240	17, 21, 23	Test com/sun/crypto/provider/Cipher/DES/PerformanceTest.java fails with java.lang.ArithmeticException	PSU
JDK-8336257	17, 21	Additional tests in jmxremote/startstop to match on PID not app name	PSU
JDK-8336284	23	Test TestClhsdbJstackLock.java/TestJhsdbJstackLock.java fails with -Xcomp after JDK-8335743	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8336301	23	test/jdk/java/nio/channels/AsyncCloseAndInterrupt.java leaves around a FIFO file upon test completion	PSU
JDK-8336315	17, 21, 23	tools/jpackage/windows/WinChildProcessTest.java Failed: Check is calculator process is alive	PSU
JDK-8336413	17, 21, 23	gtk headers : Fix typedef redeclaration of GMainContext and GdkPixbuf	PSU
JDK-8336640	21, 23	Shenandoah: Parallel worker use in parallel_heap_region_iterate	PSU
JDK-8336692	23	Redo fix for JDK-8284620	PSU
JDK-8336854	17, 21, 23	CAInterop.java#actalisauthenticationrootca conflicted with /manual and /timeout	PSU
JDK-8336911	21	ZGC: Division by zero in heuristics after JDK-8332717	PSU
JDK-8336914	23	Shenandoah: Missing verification steps after JDK-8255765	PSU
JDK-8336926	23	jdk/internal/util/ReferencedKeyTest.java can fail with ConcurrentModificationException	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8336942	23	Improve test coverage for class loading elements with annotations of different retentions	PSU
JDK-8337066	17, 21, 23	Repeated call of StringBuffer.reverse with double byte string returns wrong result	PSU
JDK-8337067	21, 23	Test runtime/classFileParserBug/Bad_NCDFE_Msg.java won't compile	PSU
JDK-8337124	21	(fs) sun.nio.fs.WindowsSecurity.enablePrivilege should pin when continuations supported	PSU
JDK-8337320	17, 21, 23	Update ProblemList.txt with tests known to fail on XWayland	PSU
JDK-8337331	21, 23	crash: pinned virtual thread will lead to jvm crash when running with the javaagent option	PSU
JDK-8337410	17, 21	The makefiles should set problemlist and adjust timeout basing on the given VM flags	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8337622	23	IllegalArgumentException in java.lang.reflect.Field.get	PSU
JDK-8337664	23	Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs	PSU
JDK-8337753	23	Target class of upcall stub may be unloaded	PSU
JDK-8337780	17, 21, 23	RISC-V: C2: Change C calling convention for sp to NS	PSU
JDK-8337795	23	Type annotation attached to incorrect type during class reading	PSU
JDK-8337810	17, 21, 23	ProblemList BasicDirectoryModel/LoaderThreadCount. java on Windows	PSU
JDK-8337826	21	Improve logging in OCSPTimeout and SimpleOCSPResponder to help diagnose JDK-8309754	PSU
JDK-8337851	17, 21	Some tests have name which confuse jtreg	PSU
JDK-8337876	21, 23	[IR Framework] Add support for IR tests with @Stable	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8337886	23	java/awt/Frame/MaximizeUndecoratedTest.java fails in OEL due to a slight color difference	PSU
JDK-8337958	23	Out-of-bounds array access in secondary_super_cache	PSU
JDK-8337966	17, 21	(fs) Files.readAttributes fails with Operation not permitted on older docker releases	PSU
JDK-8337968	23	Problem list compiler/vectorapi/VectorRebracket128Test.java	PSU
JDK-8337971	23	Problem list several jvmci tests on linux-riscv64 until JDK-8331704 is fixed	PSU
JDK-8337998	23	CompletionFailure in getEnclosingType attaching type annotations	PSU
JDK-8338058	17, 21, 23	map_or_reserve_memory_aligned Windows enhance remap assertion	PSU
JDK-8338101	17, 21, 23	remove old remap assertion in map_or_reserve_memory_aligned after JDK-8338058	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8338109	17, 21, 23	java/awt/Mouse/EnterExitEvents/Resizing FrameTest.java duplicate in ProblemList	PSU
JDK-8338110	21, 23	Exclude Fingerprinter::do_type from ubsan checks	PSU
JDK-8338112	21, 23	Test testlibrary_tests/ir_framework/tests/Test PrivilegedMode.java fails with release build	PSU
JDK-8338344	21	Test TestPrivilegedMode.java intermittent fails java.lang.NoClassDefFoundError: jdk/test/lib/Platform	PSU
JDK-8338380	17, 21, 23	Update TLSCommon/interop/AbstractServer to specify an interface to listen for connections	PSU
JDK-8338389	21, 23	[JFR] Long strings should be added to the string pool	PSU
JDK-8338449	21	ubsan: division by zero in sharedRuntimeTrans.cpp	PSU
JDK-8338550	21	Do libubsan1 installation in test container only if requested	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8338696	23	(fs) BasicFileAttributes.creationTime() falls back to epoch if birth time is unavailable (Linux)	PSU
JDK-8338748	17, 21	[17u,21u] Test Disconnect.java compile error: cannot find symbol after JDK-8299813	PSU
JDK-8338751	17, 21, 23	ConfigureNotify behavior has changed in KWin 6.2	PSU
JDK-8338759	17, 21, 23	Add extra diagnostic to java/net/InetAddress/ptr/Lookup.java	PSU
JDK-8338924	21, 23	C1: assert(0 ≤ i && i < _len) failed: illegal index 5 for length 5	PSU
JDK-8339133	8	[8u] Profiler crashes at guarantee(is_result_safe is_in_asgct()): unsafe access to zombie method	PSU
JDK-8339154	23	Cleanups and JUnit conversion of test/jdk/java/util/zip/Available.java	PSU
JDK-8339248	17, 21, 23	RISC-V: Remove li64 macro assembler routine and related code	PSU
JDK-8339384	17, 21, 23	Unintentional IOException in jdk.jdi module when JDWP end of stream occurs	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8339386	21, 23	Assertion on AIX - original PC must be in the main code section of the compiled method	PSU
JDK-8339416	21, 23	[s390x] Provide implementation for resolve_global_jobject	PSU
JDK-8339470	11, 17	[17u] More defensive fix for 8163921	PSU
JDK-8339487	17, 21, 23	ProcessHandleImpl os_getChildren sysctl call - retry in case of ENOMEM and enhance exception message	PSU
JDK-8339560	17, 21, 23	Unaddressed comments during code review of JDK-8337664	PSU
JDK-8339648	21, 23	ZGC: Division by zero in rule_major_allocation_rate	PSU
JDK-8339725	21, 23	Concurrent GC crashed due to GetMethodDeclaringClass	PSU
JDK-8339731	17, 21, 23	java.desktop/share/classes/javafx/swing/text/html/default.css typo in margin settings	PSU
JDK-8339741	17, 21, 23	RISC-V: C ABI breakage for integer on stack	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8339787	17, 21, 23	Add some additional diagnostic output to <code>java/net/ipv6tests/UdpTest.java</code>	PSU
JDK-8339882	8	Replace <code>ThreadLocalStorage::thread</code> with <code>Thread::current_or_null</code> in jdk8 backport of JDK-8183925	PSU
JDK-8339892	17, 21	Several security shell tests don't set <code>TESTJAVA_OPTS</code>	PSU
JDK-8339931	17	Update problem list for <code>WindowUpdateFocusabilityTest.java</code>	PSU
JDK-8340007	17, 21, 23	Refactor <code>KeyEvent/FunctionKeyTest.java</code>	PSU
JDK-8340008	17, 21, 23	<code>KeyEvent/KeyTyped/Numpad1KeyTyped.java</code> has 15 seconds timeout	PSU
JDK-8340073	23	Support "%z" time zone abbreviation format in TZ files	PSU
JDK-8340109	21, 23	Ubsan: <code>ciEnv.cpp:1660:65: runtime error: member call on null pointer of type 'struct CompileTask'</code>	PSU
JDK-8340210	17, 21, 23	Add <code>positionTestUI()</code> to <code>PassFailJFrame.Builder</code>	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8340214	21, 23	C2 compilation asserts with "no node with a side effect" in PhaseldealLoop::try_sink_out_of_loop	PSU
JDK-8340230	17, 21, 23	Tests crash: assert(is_in_encoding_range k.is_interface() k.is_abstract()) failed: sanity	PSU
JDK-8340306	17, 21, 23	Add border around instructions in PassFailJFrame	PSU
JDK-8340308	17, 21, 23	PassFailJFrame: Make rows default to number of lines in instructions	PSU
JDK-8340313	23	Crash due to invalid oop in nmethod after C1 patching	PSU
JDK-8340365	17, 21, 23	Position the first window of a window list	PSU
JDK-8340383	21, 23	VM issues warning failure to find kernel32.dll on Windows nanoserver	PSU
JDK-8340387	17, 21, 23	Update OS detection code to recognize Windows Server 2025	PSU
JDK-8340398	21, 23	[JVMCI] Unintuitive behavior of UseJVMCICompiler option	PSU
JDK-8340461	17, 21, 23	Amend description for logArea	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8340466	17, 21, 23	Add description for PassFailJFrame constructors	PSU
JDK-8340586	23	JdkJfrEvent::get_all_klasses stores non-strong oops in JNI handles	PSU
JDK-8340590	21, 23	RISC-V: C2: Small improvement to vector gather load and scatter store	PSU
JDK-8340632	17, 21	ProblemList java/nio/channels/DatagramChannel/ for MacOS	PSU
JDK-8340657	17, 21, 23	[PPC64] SA determines wrong unextendedSP	PSU
JDK-8340684	17, 21, 23	Reading from an input stream backed by a closed ZipFile has no test coverage	PSU
JDK-8340785	17, 21, 23	Update description of PassFailJFrame and samples	PSU
JDK-8340799	17, 21, 23	Add border inside instruction frame in PassFailJFrame	PSU
JDK-8340801	21	Disable ubsan checks in some awt/2d coding	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8340812	17, 21, 23	LambdaForm customization via MethodHandle::updateForm is not thread safe	PSU
JDK-8340824	23	C2: Memory for TypeInterfaces not reclaimed by hashcons()	PSU
JDK-8340899	17, 21, 23	Remove wildcard bound in PositionWindows.positionTestWindows	PSU
JDK-8340923	21, 23	The class LogSelection copies uninitialized memory	PSU
JDK-8341127	23	Extra call to MethodHandle::asType from memory segment var handles fails to inline	PSU
JDK-8341146	17, 21, 23	RISC-V: Unnecessary fences used for load-acquire in template interpreter	PSU
JDK-8341235	17, 21, 23	Improve default instruction frame title in PassFailJFrame	PSU
JDK-8341261	21, 23	Tests assume UnlockExperimentalVMOptions is disabled by default	PSU
JDK-8341554	23	Shenandoah: Missing heap lock when updating usage for soft ref policy	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8341562	17, 21, 23	RISC-V: Generate comments in -XX:+PrintInterpreter to link to source code	PSU
JDK-8341635	17	[17u] runtime/ErrorHandler/ClassPathEnvVar test ignores external VM flags	PSU
JDK-8341658	23	RISC-V: Test DateFormatProviderTest.java run timed out	PSU
JDK-8341668	23	Shenandoah: assert(tail_bits < (idx_t)BitsPerWord) failed: precondition	PSU
JDK-8341688	17, 21, 23	Aarch64: Generate comments in -XX:+PrintInterpreter to link to source code	PSU
JDK-8341722	21	Fix some warnings as errors when building on Linux with toolchain clang	PSU
JDK-8341881	23	[REDO] java/nio/file/attribute/BasicFileAttributeView/CreationTime.java#tmp fails on alinux3	PSU
JDK-8341927	17, 21	Replace hardcoded security providers with new test.provider.name system property	PSU
JDK-8341966	23	Broken annotated module may lead to an exception in javac	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8341997	17, 21, 23	Tests create files in src tree instead of scratch dir	PSU
JDK-8342014	21, 23	RISC-V: ZStoreBarrierStubC2 clobbers rflags	PSU
JDK-8342063	21	[21u][aix] Backport introduced redundant line in ProblemList	PSU
JDK-8342145	23	File libCreationTimeHelper.c compile fails on Alpine	PSU
JDK-8342181	17, 21	Update tests to use stronger Key and Salt size	PSU
JDK-8342183	17, 21	Update tests to use stronger algorithms and keys	PSU
JDK-8342188	17, 21	Update tests to use stronger key parameters and certificates	PSU
JDK-8342409	21	[s390x] C1 unwind_handler fails to unlock synchronized methods with LM_MONITOR	PSU
JDK-8342426	11	[11u] javax/naming/module/RunBasic.java javac compile fails	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8342489	23	compiler/c2/irTests/TestVectorizationMismatchedAccess.java fails on big-endian platforms	PSU
JDK-8342496	17, 21, 23	C2/Shenandoah: SEGV in compiled code when running jcstress	PSU
JDK-8342607	21	Enhance register printing on x86_64 platforms	PSU
JDK-8342612	23	Increase memory usage of compiler/c2/TestScalarReplacementMaxLiveNodes.java	PSU
JDK-8342669	17, 21	[21u] Fix TestArrayAllocatorMallocLimit after backport of JDK-8315097	PSU
JDK-8342681	17, 21, 23	TestLoadBypassesNullCheck.java fails improperly specified VM option	PSU
JDK-8342701	17, 21, 23	[PPC64] TestOSRLotsOfLocals.java crashes	PSU
JDK-8342765	21	[21u] RTM tests assume UnlockExperimentalVMOptions is disabled by default	PSU
JDK-8342822	8	jdk8u432-b06 does not compile on AIX	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8342823	21	Ubsan: ciEnv.cpp:1614:65: runtime error: member call on null pointer of type 'struct CompileTask'	PSU
JDK-8342905	21, 23	Thread.setContextClassLoader from thread in FJP commonPool task no longer works after JDK-8327501 redux	PSU
JDK-8342962	17, 21, 23	[s390x] TestOSRLotsOfLocals.java crashes	PSU
JDK-8343285	17, 21	java.lang.Process is unresponsive and CPU usage spikes to 100%	PSU
JDK-8343506	21	[s390x] multiple test failures with ubsan	PSU
JDK-8343687	17	[17u] TestAntiDependencyForPinnedLoads requires UTF-8	PSU
JDK-8343724	21	[PPC64] Disallow OptoScheduling	PSU
JDK-8343848	17, 21	Fix typo of property name in TestOAEPPadding after 8341927	PSU
JDK-8343877	17, 21	Test AsyncClose.java intermittent fails - Socket.getInputStream().read() wasn't preempted	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8343884	21	[s390x] Disallow OptoScheduling	PSU
JDK-8344164	21	[s390x] ProblemList hotspot/jtreg/runtime/NMT/VirtualAllocCommitMerge.java	PSU
JDK-8344628	21	Test TestEnableJVMCIProduct.java run with virtual thread intermittent fails	PSU
JDK-8344993	21	[21u] [REDO] Backport JDK-8327501 and JDK-8328366 to JDK 21	PSU
JDK-8345055	21	[21u] ProblemList failing rtm tests on ppc platforms	PSU

OpenJFX Fixes and Enhancements

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

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8295945	8, 11, 17	Revert unintended change to copyright start year	PSU
JDK-8306328	11	Update libFFI to 3.4.4	PSU
JDK-8311806	11	Class ButtonAccessibility is implemented twice	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8317508	11	Provide media support for libavcodec version 60	PSU
JDK-8318388	11	Update libxslt to 1.1.39	PSU
JDK-8331603	8, 11, 17	Cleanup native AbstractSurface methods getRGBImpl, setRGBImpl	PSU
JDK-8331616	17	ChangeListener is not triggered when the InvalidationListener is removed	PSU
JDK-8333374	11, 17, 21, 23	Cannot invoke "com.sun.prism.RTTexture.contentsUseful()" because "this.txt" is null	PSU
JDK-8334124	8, 11, 17	Rendering issues with CSS "text-shadow" in WebView	PSU
JDK-8335469	21, 23	[XWayland] crash when an AWT ScreenCast session overlaps with an FX ScreenCast session	PSU
JDK-8336938	8, 11	Update libFFI to 3.4.6	PSU
JDK-8336939	8, 11	Update Glib to 2.80.4	PSU
JDK-8336940	8, 11	Update GStreamer to 1.24.6	PSU
JDK-8336941	8, 11	Update libxslt to 1.1.42	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8337481	8, 11, 17	File API: file.name contains path instead of name	PSU
JDK-8337827	21, 23	[XWayland] Skip failing tests on Wayland	PSU
JDK-8338701	8, 11	Provide media support for libavcodec version 61	PSU
JDK-8338886	8, 11, 17	JavaFX debug builds fail on macOS	PSU
JDK-8340208	8, 11, 21, 23	Additional WebKit 619.1 fixes from WebKitGTK 2.44.4	PSU
JDK-8340954	21, 23	Add SECURITY.md file	PSU
JDK-8341920	8, 11, 21, 23	Intermittent WebKit build failure on Windows generating PDB files in 619.1	PSU
JDK-8342917	21, 23	GHA: Intermittent build failure on Linux while downloading ant	PSU
JDK-8343630	11, 17, 21, 23	Pass AccessControlContext to/from WebKit as opaque object	PSU
JDK-8343760	21, 23	GHA: macOS / aarch64 builds depend on Xcode 14 which will be removed	PSU

Fixes and Enhancements Specific to Azul Zulu Builds of OpenJDK

The following table describes the Azul Zulu changes implemented in this release.

Issue ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-60674	7	Change to Xcode 12.3 for building on macOS x86_64	CPU,PSU
ZULU-70248	8	Remove timezone links for HST/EST/MST	CPU,PSU
ZULU-70692	6, 7	[7u] TimeZone.getTimeZone(String) does not recognize HST with tzdata 2024b	CPU,PSU
ZULU-70702	6, 7	Test java/util/TimeZone/TimeZoneTest.java fails on all platforms	CPU,PSU
ZULU-37081	N/A	Complete TPLs with 3rd-party	PSU
ZULU-56726	23	Support enabling JMX when it was not up before checkpoint	PSU
ZULU-60759	N/A	Warp ARM64 implementation	PSU
ZULU-62373	17, 21	Simplify CPUFeatures code	PSU
ZULU-67091	N/A	Improve CRS TPL processing	PSU
ZULU-68091	21, 23	Update JFX to zulu23.0.2+100	PSU
ZULU-68194	21	Update libffi staging build for win32	PSU
ZULU-68202	N/A	LibFFI should be component	PSU

Issue ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-68664	8	OJREG QNX7.1 java/util/zip/ZipFile/ReadLongZipFileName.java	PSU
ZULU-68899	8	Clean up non-component FIPS code	PSU
ZULU-69000	8	Update OPENJFX_THIRD_PARTY_README with latest version of 3d party components.	PSU
ZULU-69188	17, 21, 23	Intermittent failure in crac-containers test	PSU
ZULU-69743	21	jdk21 libffi: foreign/capturecallstate/TestCaptureCallState.java foreign/trivial/TestTrivial.java	PSU
ZULU-69746	21	jdk21 libffi: foreign/TestIllegalLink.java	PSU
ZULU-69747	21	jdk21 libffi: foreign/TestVarArgs.java	PSU
ZULU-69784	N/A	Add full license text of OpenJDK 3rd-party components to SBOM	PSU
ZULU-69818	17, 21, 23	[CRaC] Massive crac test failures on recently updated Debian12 host	PSU
ZULU-70008	17	Conditionally disable a part of JDK-8182043 with a system property	PSU

Issue ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-70018	21	fix \$WITH_LIBFFI	PSU
ZULU-70033	21	Add sanity check for MSVC compiler issue	PSU
ZULU-70038	21	libffi32: Remove a needless change in g1Arguments.cpp	PSU
ZULU-70039	21	\$WITH_LIBFFI: Use a release tag	PSU
ZULU-70189	8	Improve JNF TPL processing	PSU
ZULU-70494	11, 17	process fips tpls from component	PSU
ZULU-70743	8	remove WITH_FIPS from zulu8 dependencies	PSU

Fixes and Enhancements Specific to Azul Zulu Builds of OpenJDK With JavaFX

There are no resolved issues specific to Azul Zulu Builds of OpenJDK With JavaFX associated with this release.

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