



Azul Zulu builds of OpenJDK

January 2022 Quarterly Update

Release Notes

Revision 1.2

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Revision history

Revision	Date	Description
0.1	January 18, 2022	Initial version of the document.
1.0	January 18, 2022	Added information about the CVEs fixed in this release.
1.1	January 28, 2022	Added Azul Zulu 8.59.0.14 (SA) to the list of bundles, which was released to fix a packaging issue discovered in version 8.59.0.12.
1.2	February 2, 2022	Updated the list of JVM options that are meant to be used to achieve the effect of the <code>JAVASE_EMBEDDED</code> build option. The options were incorrect in the previous versions of the release notes.

Release details

Release Date: January 18, 2022

This release is a quarterly update release for Azul Zulu Builds of OpenJDK version 17, 15, 13, 11, 8, 7, and 6. The following table lists detailed information on the Azul Zulu versions released with the current update.

Azul Zulu Version*	Update Type**	JDK Version	Based on		JavaFX Version
			Azul Zulu Version	JDK Version	
17.32.13 (CA) 17.32.14 (SA)	PSU	17.0.2+8	17.30	17.0.1+12	17.0.2+100
15.37.14 (SA)	CPU	15.0.5.0.101+2	15.36	15.0.5+3	17.0.1.0.101+100
15.38.17 (CA) 15.38.18 (SA)	PSU	15.0.6+5	15.37	15.0.5.0.101+2	17.0.2+100
13.45.12 (SA)	CPU	13.0.9.0.101+1	13.44	13.0.9+3	17.0.1.0.101+100
13.46.15 (CA) 13.46.16 (SA)	PSU	13.0.10+5	13.45	13.0.9.0.101+1	17.0.2+100
11.53.14 (SA)	CPU	11.0.13.0.101+2	11.52	11.0.13+8	17.0.1.0.101+101
11.54.23 (CA) 11.54.24 (SA)	PSU	11.0.14+9	11.53	11.0.13.0.101+2	17.0.2+100
8.59.0.12 (SA) 8.59.0.14 (SA)	CPU	8u321-b01	8.58	8u312-b07	8u321-b01
8.60.0.21 (CA) 8.60.0.22 (SA)	PSU	8u322-b06	8.59	8u321-b01	8u322-b01
7.51.0.12 (SA)	CPU	7u331-b01	7.50	7u322-b01	N/A
7.52.0.11 (CA) 7.52.0.12 (SA)	PSU	7u332-b01	7.51	7u331-b01	N/A
6.45 (SA)	CPU	6b145	6.43	6b143	N/A

* Azul provides three 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 does not have to include specific licenses and that such use does not contaminate the code or intellectual property of such software with any license requirements.
- **NV** are tested, certified, and commercially supported Azul Zulu builds of OpenJDK.
- **CA** are Azul Zulu builds of OpenJDK that are free to download and use.

** 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 and NV 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, NV, and CA distributions.

Supported platforms

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

Operating System	Azul Zulu Version						
	6	7	8	11	13	15	17
Windows (x86 32/64-bit)							
Windows Server 2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Windows Server 2016	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows Server 2012 R2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows 11	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows 10	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows 8.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows (ARM 64-bit)							
Windows 11	n/a	n/a	n/a	n/a	n/a	n/a	Yes
Windows 10	n/a	n/a	n/a	n/a	n/a	n/a	Yes
Linux (x86 32/64-bit)							
RHEL 8.x	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RHEL 7.x	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SLES 15	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SLES 12	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CentOS 8.x [1]	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ubuntu 20.04	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ubuntu 18.04	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Debian 11	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Debian 10	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Debian 9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wind River 8.x	n/a	Yes	Yes	n/a	n/a	n/a	n/a
CoreOS	n/a	Yes	Yes	Yes	Yes	Yes	Yes
Alpine Linux 3.11 or later	n/a	n/a	Yes	Yes	Yes	Yes	Yes
Linux (ARM 64-bit)							
Ubuntu 20.04	n/a	n/a	Yes	Yes	Yes	Yes	Yes
Ubuntu 18.04	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Alpine Linux 3.11 or later	n/a	n/a	n/a	n/a	n/a	n/a	Yes

Linux with kernel 3.10.x and glibc 2.23	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Linux (ARM 32-bit Hard-Float)							
Ubuntu 18.04 [2]	n/a	n/a	Yes	Yes	n/a	n/a	Yes
Raspbian 10 Buster [2]	n/a	n/a	Yes	Yes	n/a	n/a	Yes
Raspbian 9 Stretch [2]	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Linux with kernel 3.10.x and glibc 2.9 [2]	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Linux (ARM 32-bit Soft-Float) [3]							
Linux with kernel 2.6.34 and glibc 2.5 [4]	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Debian 7 Wheezy [5]	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Linux with kernel 3.10.x and glibc 2.9 [5]	n/a	n/a	Yes	Yes	n/a	n/a	n/a
Linux (MIPS 32-bit) [6]							
Linux with kernel 4.9.59 and glibc 2.9 [7]	n/a	n/a	Yes	n/a	n/a	n/a	n/a
Linux (PowerPC 64-bit Big Endian)							
Linux with kernel 3.8.13 and glibc 2.22 [8]	n/a	n/a	Yes	n/a	n/a	n/a	n/a
Linux (PowerPC 32-bit Hard-float and SPE)							
Linux with kernel 3.12.37 and glibc 2.20 [9]	n/a	n/a	Yes	n/a	n/a	n/a	n/a
QNX (ARMv7 32-bit Hard-Float ABI)							
QNX 7.0	n/a	n/a	Yes	n/a	n/a	n/a	n/a
MacOS (x86 64-bit)							
macOS 12	n/a	Yes	Yes	Yes	Yes	Yes	Yes
macOS 11	n/a	Yes	Yes	Yes	Yes	Yes	Yes

macOS 10.15	n/a	Yes	Yes	Yes	Yes	Yes	Yes
MacOS (Apple Silicon)							
macOS 12	n/a	Yes	Yes	Yes	Yes	Yes	Yes
macOS 11	n/a	n/a	Yes	Yes	Yes	Yes	Yes
Solaris (x86 and Sparc)							
Solaris 11	Yes	Yes	Yes	Yes	n/a	n/a	n/a
Solaris 10	Yes	Yes	Yes	n/a	n/a	n/a	n/a

1. The Azul Zulu builds for CentOS 8 will be discontinued in July, 2022 due to Red Hat terminating CentOS development and shifting focus to CentOS Stream.
2. 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.
3. Bundles with the C1 compiler will use FPU, if it is present and available, to speed up floating point operations. Bundles with both C1 and C2 compilers require FPU.
4. Bundles with the C1 compiler. Tested on ARMv5 hardware.
5. Bundles with the C1 compiler were tested on ARMv6 and ARMv7 hardware. Bundles with both C1 and C2 compilers were tested on ARMv7 hardware.
6. MIPS32r2 ISA, Big Endian, FPU in 32-bit mode or equivalent emulation.
7. Linux soft-float O32 MIPS ABI
8. Bundles for this platform were tested on QorIQ® T4240-RDB.
9. Hard-Float EABI bundles were tested on QorIQ® T1024RDB. SPE ABI bundles were tested on NXP® P2020RDB.

Highlights

Azul Zulu 17 Arm32 support

Azul Zulu 17 now supports the Arm32 architecture for Linux platforms.

JAVASE_EMBEDDED build configuration dropped.

Azul has stopped using the `JAVASE_EMBEDDED` option to build Azul Zulu bundles intended for embedded systems. This build-time option was used to tune Azul Zulu bundles in a way to demonstrate better startup performance on some embedded systems. However, you can achieve the same startup boost using the following JVM flags with an arbitrary Azul Zulu bundle:

```
-XX:+UnlockDiagnosticVMOptions  
-XX:GuaranteedSafepointInterval=0  
-XX:-UsePerfData
```

Azul Zulu bundles built with this option used to have the `-embvm-` suffix in the bundle file name. This suffix was removed from bundle names in October 2021.

OpenJSSE and Legacy8uJSSE support for Azul Zulu 8 extended

The support for JSSE providers OpenJSSE and Legacy8uJSSE has been extended until January 2023.

OpenJSSE is a JSSE provider that was ported from Java 11 to Azul Zulu 8 to add support for TLS 1.3, because OpenJDK 8 did not support TLS 1.3 at the time. Later, OpenJSSE was integrated into the SunJSSE provider of OpenJDK 8u272 and became part of Java SE 8 specification.

Legacy8uJSSE is a JSSE provider that falls back to legacy TLS 1.2 protocol implementation and was added to Azul Zulu 8 for compatibility reasons.

Although announced as removed in previous releases of Azul Zulu, the two JSSE implementations will still be available in Azul Zulu 8 until January 2023.

OpenJSSE removed from Azul Zulu 11

The OpenJSSE provider has been removed from Azul Zulu 11.

If your applications run on Azul Zulu 11 and use the public OpenJSSE API, consider updating the JSSE-related logic correspondingly. For example, you might want to switch to a different JSSE provider (for example, SunJSSE) due to OpenJSSE removal.

JVM symbols added to Azul Zulu 8

Azul Zulu 8 CA bundles now include minimum JVM symbols. At the cost of a slight increase of the bundle size, JVM symbols greatly simplify the profiling process, make JVM crash messages more informative, and make possible the use of some instrumentation tools. More detailed debug symbols are available as a separate binary package.

Notice of upcoming changes

- Support for CentOS 8 will be discontinued in July 2022

Known issues

- During the startup of Azul Zulu 6 on CentOS 8 (FIPS-compliant distributions only) and CentOS Stream 9, you may encounter errors due to missing `libnsl` libraries. As a workaround, you have to install `libnsl` manually for these platforms.

IANA Time Zone Database version

This release of Azul Zulu comes with IANA Time Zone Database version 2021e.

Fixed issues

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

Fixed common vulnerabilities and exposures

This section summarizes Common Vulnerabilities and Exposures (CVE) fixed in this release.

CVE #	Component	Protocol	Remote Exploit w/o Auth.	Base Score	Attack Vector	Attack Complex	Privileges Req'd	User Interact	Scope	Confidentiality	Integrity	Availability	Azul Zulu Versions Affected	Notes
CVE-2022-21277	ImageIO	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11	Note 1
CVE-2022-21282	JAXP	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	Low	None	None	17, 15, 13, 11, 8, 7	Note 1
CVE-2022-21283	Libraries	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21291	Hotspot	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	Low	None	17, 15, 13, 11	Note 1
CVE-2022-21293	Libraries	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21294	Libraries	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21296	JAXP	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	Low	None	None	17, 15, 13, 11, 8, 7	Note 1
CVE-2022-21299	JAXP	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1

CVE #	Component	Protocol	Remote Exploit w/o Auth.	Base Score	Attack Vector	Attack Complex	Privileges Req'd	User Interact	Scope	Confidentiality	Integrity	Availability	Azul Zulu Versions Affected	Notes
CVE-2022-21305	Hotspot	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	Low	None	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21340	Libraries	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21341	Serialization	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21349	2D	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	8, 7	Note 1
CVE-2022-21360	ImageIO	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21365	ImageIO	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2022-21366	ImageIO	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	17, 15, 13, 11	Note 1
CVE-2022-21248	Serialization	Multiple	Yes	3.7	Network	High	None	None	Unchanged	None	Low	None	17, 15, 13, 11, 8, 7, 6	Note 1
CVE-2021-22959	Oracle GraalVM Enterprise Edition: Node (Node.js)	HTTP	Yes	6.5	Network	Low	None	None	Unchanged	Low	Low	None	None	
CVE-2022-21271	Oracle GraalVM Enterprise Edition: Libraries	Multiple	Yes	5.3	Network	Low	None	None	Unchanged	None	None	Low	None	Note 1

Notes:

ID	Notes
1	This vulnerability applies to Java deployments, typically in clients running sandboxed Java applications, that load and run untrusted code (e.g., code that comes from the internet) and rely on the Java sandbox for security. This vulnerability can also be exploited by using APIs in the specified Component, e.g., through a web service which supplies data to the APIs.

Additional CVEs addressed: The updates that address CVE-2021-22959 also address CVE-2021-22960.

Non-CVE security fixes

The following table summarizes non-CVE security fixes implemented in this release.

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8279541	11	Improve HarfBuzz	CPU
JDK-8274929	17, 15, 13, 11, 8	Crash while reading specific clipboard content	CPU
JDK-8273968	17, 15, 13, 11, 8, 7, 6	JCK javax_xml tests fail in CI	CPU
JDK-8273290	17, 15, 13, 11, 8, 7, 6	Enhance sound handling	CPU
JDK-8272546	17, 15, 13, 11, 8	Better TrueType font loading	CPU
JDK-8272462	17, 15, 13, 11, 8, 7, 6	Enhance image handling	CPU
JDK-8272272	17, 15, 13, 11, 8, 7, 6	Enhance jcmd communication	CPU
JDK-8271987	17, 15, 13, 11, 8	Manifest improved manifest entries	CPU
JDK-8271968	17, 15, 13, 11, 8, 7, 6	Better canonical naming	CPU
JDK-8271962	17, 15, 13, 11, 8, 7, 6	Better TrueType font loading	CPU
JDK-8269944	17, 15, 13, 11, 8, 7, 6	Better HTTP transport redux	CPU
JDK-8269151	17, 15, 13, 11, 8, 7, 6	Better construction of EncryptedPrivateKeyInfo	CPU
JDK-8268801	13, 11, 8, 7, 6	Improve PKCS attribute handling	CPU
JDK-8268795	11, 8, 7, 6	Enhance digests of Jar files	CPU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8268512	17, 15, 13, 11, 8, 7, 6	More content for ContentInfo	CPU
JDK-8268494	17, 15, 13, 11, 8, 7, 6	Better inlining of inlined interfaces	CPU
JDK-8268488	17, 15, 13, 11, 8, 7, 6	More valuable DerValues	CPU
JDK-8266091	15, 13, 11	Improve Zip file handling	CPU

OpenJDK bug fixes

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

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8279541	11	Improve HarfBuzz	CPU
JDK-8276536	17, 15, 13, 11, 8, 7, 6	Update TimeZoneNames files to follow the changes made by JDK-8275766	CPU
JDK-8275849	17, 15, 13, 11, 8, 7, 6	TestZoneInfo310.java fails with tzdata2021e	CPU
JDK-8275766	17, 15, 13, 11, 8, 7, 6	(tz) Update Timezone Data to 2021e	CPU
JDK-8274468	17, 15, 13, 11, 8, 7, 6	TimeZoneTest.java fails with tzdata2021b	CPU
JDK-8274467	17, 15, 13, 11, 8, 7, 6	TestZoneInfo310.java fails with tzdata2021b	CPU
JDK-8274407	17, 15, 13, 11, 8, 7, 6	(tz) Update Timezone Data to 2021c	CPU
JDK-8274096	17, 15, 13, 11	Improve decoding of image files	CPU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8273968	17, 15, 13, 11, 8, 7, 6	JCK javax_xml tests fail in CI	CPU
JDK-8273838	17, 15, 13, 11, 8, 7, 6	Enhanced BMP processing	CPU
JDK-8273756	17, 15, 13, 11, 8, 7, 6	Enhance BMP image support	CPU
JDK-8273748	8, 7	Improve Solaris font rendering	CPU
JDK-8273308	17, 15, 13, 11, 8, 7, 6	PatternMatchTest.java fails on CI	CPU
JDK-8273290	17, 15, 13, 11, 8, 7, 6	Enhance sound handling	CPU
JDK-8272462	17, 15, 13, 11, 8, 7, 6	Enhance image handling	CPU
JDK-8272272	17, 15, 13, 11, 8, 7, 6	Enhance jcmd communication	CPU
JDK-8272236	17, 15, 13, 11, 8, 7, 6	Improve serial forms for transport	CPU
JDK-8272026	17, 15, 13, 11, 8, 7, 6	Verify Jar Verification	CPU
JDK-8272014	17, 15, 13, 11, 8, 7, 6	Better array indexing	CPU
JDK-8271987	17, 15, 13, 11, 8	Manifest improved manifest entries	CPU
JDK-8271968	17, 15, 13, 11, 8, 7, 6	Better canonical naming	CPU
JDK-8271962	17, 15, 13, 11, 8, 7, 6	Better TrueType font loading	CPU
JDK-8270952	17, 15, 13, 11	Improve TIFF file handling	CPU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8270646	17, 15, 13, 11, 8, 7, 6	Improved scanning of XML entities	CPU
JDK-8270498	17, 15, 13, 11, 8, 7	Improve SAX Parser configuration management	CPU
JDK-8270416	17, 15, 13, 11, 8, 7, 6	Enhance construction of Identity maps	CPU
JDK-8270392	17, 15, 13, 11, 8, 7, 6	Improve String constructions	CPU
JDK-8270386	17, 15, 13, 11	Better verification of scan methods	CPU
JDK-8269944	17, 15, 13, 11, 8, 7, 6	Better HTTP transport redux	CPU
JDK-8269151	17, 15, 13, 11, 8, 7, 6	Better construction of EncryptedPrivateKeyInfo	CPU
JDK-8268813	17, 15, 13, 11, 8, 7, 6	Better String matching	CPU
JDK-8268801	13, 11, 8, 7, 6	Improve PKCS attribute handling	CPU
JDK-8268795	11, 8, 7, 6	Enhance digests of Jar files	CPU
JDK-8268512	17, 15, 13, 11, 8, 7, 6	More content for ContentInfo	CPU
JDK-8268494	17, 15, 13, 11, 8, 7, 6	Better inlining of inlined interfaces	CPU
JDK-8268488	17, 15, 13, 11, 8, 7, 6	More valuable DerValues	CPU
JDK-8266545	15, 13	8261169 broke Harfbuzz build with gcc 7 and 8	CPU
JDK-8266091	15, 13, 11	Improve Zip file handling	CPU
JDK-8264934	17, 15, 13, 11, 8, 7, 6	Enhance cross VM serialization	CPU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8261169	15, 13	Upgrade HarfBuzz to the latest 2.8.0	CPU
JDK-8251329	17, 15, 13, 11	(zipfs) Files.walkFileTree walks infinitely if zip has dir named "." inside	CPU
JDK-8250894	15, 13	Provide a configure option to build and run against the platform libharfbuzz	CPU
JDK-8250605	15, 13	Linux x86_32 builds fail after JDK-8249821	CPU
JDK-8249821	15, 13	Separate libharfbuzz from libfontmanager	CPU
JDK-8247872	15, 13	Upgrade HarfBuzz to the latest 2.7.2	CPU
JDK-8068427	6	Hashtable deserialization reconstitutes table with wrong capacity	CPU
JDK-8059327	6	XML parser returns corrupt attribute value	CPU
JDK-8055949	6	ByteArrayOutputStream capacity should be maximal array size permitted by VM	CPU
JDK-8029955	7, 6	AIOB in XMLEntityScanner.scanLiteral upon parsing literals with > 100 LF chars	CPU
JDK-6933217	6	Huge arrays handled poorly in core libraries	CPU
JDK-8278416	13	Crash during execution of ClassInitBarrier test	PSU
JDK-8277981	17	String Deduplication table is never cleaned up due to bad dead_factor_for_cleanup	PSU
JDK-8277815	11	Fix mistakes in legal header backports	PSU
JDK-8277529	17, 11	SIGSEGV in C2 CompilerThread Node::rematerialize() compiling Packet::readUnsignedTrint	PSU
JDK-8277224	17, 11	sun.security.pkcs.PKCS9Attributes.toString() throws NPE	PSU
JDK-8277212	17	GC accidentally cleans valid megamorphic vtable inline caches	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8277195	17	missing CAccessibility definition in [CommonComponentAccessibility accessibilityHitTest]	PSU
JDK-8277159	17	Fix java/nio/file/FileStore/Basic.java test by ignoring /run/user/* mount points	PSU
JDK-8277093	17	Vector should throw ClassNotFoundException for a missing class of an element	PSU
JDK-8277029	17, 11	JMM GetDiagnosticXXXInfo APIs should verify output array sizes	PSU
JDK-8276943	11	Backout JDK-8274338 11u backport	PSU
JDK-8276927	17	[ppc64] Port shenandoahgc to linux on ppc64le	PSU
JDK-8276905	17	Use appropriate macosx_version_minimum value while compiling metal shaders	PSU
JDK-8276864	17	Update boot JDKs to 17.0.1 in GHA	PSU
JDK-8276854	17, 11	Windows GHA builds fail due to broken Cygwin	PSU
JDK-8276846	17	JDK-8273416 is incomplete for UseSSE=1	PSU
JDK-8276845	17	(fs) java/nio/file/spi/SetDefaultProvider.java fails on x86_32	PSU
JDK-8276805	17	java/awt/print/PrinterJob/CheckPrivilege.java fails due to disabled SecurityManager	PSU
JDK-8276801	17	gc/stress/CriticalNativeStress.java fails intermittently with Shenandoah	PSU
JDK-8276774	17, 11	Cookie stored in CookieHandler not sent if user headers contain cookie	PSU
JDK-8276572	17	Fake libsyslookup.so library causes tooling issues	PSU
JDK-8276550	17, 11	Use SHA256 hash in build.tools.depend.Depend	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8276306	17	jdk/jshell/CustomInputToolBuilder.java fails intermittently on storage acquisition	PSU
JDK-8276205	17	Shenandoah: CodeCache_lock should always be held for initializing code cache iteration	PSU
JDK-8276201	17, 11	Shenandoah: Race results degenerated GC to enter wrong entry point	PSU
JDK-8276157	17, 11	C2: Compiler stack overflow during escape analysis on Linux x86_32	PSU
JDK-8276139	17, 11	TestJpsHostName.java not reliable, better to expand HostIdentifierCreate.java test	PSU
JDK-8276130	17	Fix Github Actions of JDK17u to account for update version scheme	PSU
JDK-8276122	17	Change openjdk project in jcheck to jdk-updates	PSU
JDK-8276112	17	Inconsistent scalar replacement debug info at safepoints	PSU
JDK-8276105	17	C2: Conv(D F)2(I L)Nodes::Ideal should handle rounding correctly	PSU
JDK-8276076	17	Updating RE Configs for BUILD REQUEST 17.0.2+3	PSU
JDK-8276066	17, 11	Reset LoopPercentProfileLimit for x86 due to suboptimal performance	PSU
JDK-8276025	17	Hotspot's libsvm.so may conflict with user dependency	PSU
JDK-8275872	17	Sync J2DBench run and analyze Makefile targets with build.xml	PSU
JDK-8275863	17	Use encodeASCII for ASCII-compatible DoubleByte encodings	PSU
JDK-8275819	17	[TableRowAccessibility accessibilityChildren] method is ineffective	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8275811	17	Incorrect instance to dispose	PSU
JDK-8275809	17	crash in [CommonComponentAccessibility getCAccessible:withEnv:]	PSU
JDK-8275720	17	CommonComponentAccessibility.createWithParent isWrapped causes mem leak	PSU
JDK-8275713	11	TestDockerMemoryMetrics test fails on recent runc	PSU
JDK-8275703	17	System.loadLibrary fails on Big Sur for libraries hidden from filesystem	PSU
JDK-8275666	17	serviceability/jvmti/GetObjectSizeClass.java shouldn't have vm.flagless	PSU
JDK-8275604	17	Zero: Reformat opclabels_data	PSU
JDK-8275426	17	PretouchTask num_chunks calculation can overflow	PSU
JDK-8275302	17	unexpected compiler error: cast, intersection types and sealed	PSU
JDK-8275226	17	Shenandoah: Relax memory constraint for worker claiming tasks/ranges	PSU
JDK-8275145	17	file.encoding system property has an incorrect value on Windows	PSU
JDK-8275131	17, 11	Exceptions after a touchpad gesture on macOS	PSU
JDK-8275104	17	IR framework does not handle client VM builds correctly	PSU
JDK-8275071	17	[macos] A11y cursor gets stuck when combobox is closed	PSU
JDK-8275051	17, 11	Shenandoah: Correct ordering of requested gc cause and gc request flag	PSU
JDK-8275049	17	[ZGC] missing null check in ZNMethod::log_register	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8275008	17	gtest build failure due to stringop-overflow warning with gcc11	PSU
JDK-8274942	17	AssertionError at jdk.compiler/com.sun.tools.javac.util.Assert.error(Assert.java:155)	PSU
JDK-8274860	11	gcc 10.2.1 produces an uninitialized warning in sharedRuntimeTrig.cpp	PSU
JDK-8274851	17	[ppc64] Port zgc to linux on ppc64le	PSU
JDK-8274848	17	LambdaMetaFactory::metafactory on REF_invokeSpecial impl method has incorrect behavior	PSU
JDK-8274840	17, 15, 13, 11	Update OS detection code to recognize Windows 11	PSU
JDK-8274779	17, 15, 13, 11, 8	URLConnection: HttpClient and HttpClient incorrectly check request method when set to POST	PSU
JDK-8274773	17, 11	[TESTBUG] UnsafeIntrinsicsTest intermittently fails on weak memory model platform	PSU
JDK-8274770	17	[PPC64] resolve_object needs a generic implementation to support load barriers	PSU
JDK-8274736	17	Concurrent read/close of SSLSockets causes SSLSessions to be invalidated unnecessarily	PSU
JDK-8274716	17	JDWP Spec: the description for the Dispose command confuses suspend with resume.	PSU
JDK-8274642	17, 11	jdk/jshell/CommandCompletionTest.java fails with NoSuchElementException after JDK-8271287	PSU
JDK-8274606	17	Fix jaxp/javax/xml/jaxp/unittest/transform/Surrogate Test.java test	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8274595	8	DisableRMIOverHTTPTest failed: connection refused	PSU
JDK-8274560	17	JFR: Add test for OldObjectSample event when using Shenandoah	PSU
JDK-8274550	17	c2i entry barriers read int as long on PPC	PSU
JDK-8274523	17	java/lang/management/MemoryMXBean/MemoryTest.java test should handle Shenandoah	PSU
JDK-8274522	17, 11	java/lang/management/ManagementFactory/MXBeanException.java test fails with Shenandoah	PSU
JDK-8274521	17	jdk/jfr/event/gc/detailed/TestGCLockerEvent.java fails when other GC is selected	PSU
JDK-8274501	17, 15	c2i entry barriers read int as long on AArch64	PSU
JDK-8274435	17, 15	EXCEPTION_ACCESS_VIOLATION in BFSClosure::closure_impl	PSU
JDK-8274406	17	RunThese30M.java failed "assert(!LCA_orig \mathbb{R} dominates(pred_block) early \mathbb{R} dominates(pred_block)) failed: early is high enough"	PSU
JDK-8274401	17	C2: GraphKit::load_array_element bypasses Access API	PSU
JDK-8274383	17	JNI call of getAccessibleSelection on a wrong thread	PSU
JDK-8274381	17, 15, 13, 11	missing CAccessibility definitions in JNI code	PSU
JDK-8274349	17	ForkJoinPool.commonPool() does not work with 1 CPU	PSU
JDK-8274347	17	Passing a nested switch expression as a parameter causes an NPE during compile	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8274338	17, 11	com/sun/jdi/RedefineCrossEvent.java failed "assert(m != __null) failed: NULL mirror"	PSU
JDK-8274329	17, 11	Fix non-portable HotSpot code in MethodMatcher::parse_method_pattern	PSU
JDK-8274326	17, 11	[macos] Ensure initialisation of sun/lwawt/macosx/CAccessibility in JavaComponentAccessibility.m	PSU
JDK-8274325	17	C4819 warning at vm_version_x86.cpp on Windows after JDK-8234160	PSU
JDK-8274293	17, 15, 13, 11	Build failure on macOS with Xcode 13.0 as vfork is deprecated	PSU
JDK-8274265	17	Suspicious string concatenation in logTestUtils.inline.hpp	PSU
JDK-8274242	17	Implement fast-path for ASCII-compatible CharsetEncoders on x86	PSU
JDK-8274215	17	Remove globalsignr2ca root from 17.0.2	PSU
JDK-8274145	17	C2: condition incorrectly made redundant with dominating main loop exit condition	PSU
JDK-8274087	17	Windows DLL path not set correctly.	PSU
JDK-8274083	17, 11	Update testing docs to mention tiered testing	PSU
JDK-8274074	17	SIGFPE with C2 compiled code with -XX:+StressGCM	PSU
JDK-8274056	17, 15, 13, 11	JavaAccessibilityUtilities leaks JNI objects	PSU
JDK-8274001	15	Bump update version for OpenJDK: jdk-15.0.6	PSU
JDK-8274000	13	Bump update version for OpenJDK: jdk-13.0.10	PSU
JDK-8273965	17	some testlibrary_tests/ir_framework tests fail when c1 disabled	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8273961	17, 11	jdk/nio/zipfs/ZipFSTester.java fails if file path contains '+' character	PSU
JDK-8273958	17	gtest/MetaspaceGtests executes unnecessary tests in debug builds	PSU
JDK-8273935	17	(zipfs) Files.getFileAttributeView() throws UOE instead of returning null when view not supported	PSU
JDK-8273924	17, 11	ArrayIndexOutOfBoundsException thrown in java.util.JapaneseImperialCalendar.add()	PSU
JDK-8273902	17	Memory leak in OopStorage due to bug in OopHandle::release()	PSU
JDK-8273894	17, 11	ConcurrentModificationException raised every time ReferralsCache drops referral	PSU
JDK-8273887	17	[macos] java/awt/color/ICC_ColorSpace/MTTransformReplacedProfile.java timed out	PSU
JDK-8273826	17, 15, 11, 8	Correct Manifest file name and NPE checks	PSU
JDK-8273808	17	Cleanup AddFontsToX11FontPath	PSU
JDK-8273807	17	Zero: Drop incorrect test block from compiler/startup/NumCompilerThreadsCheck.java	PSU
JDK-8273806	17	compiler/cpuflags/TestSSE4Disabled.java should test for CPU feature explicitly	PSU
JDK-8273795	11	Zero SPARC64 debug builds fail due to missing interpreter fields	PSU
JDK-8273790	17, 15, 13, 11	Potential cyclic dependencies between Gregorian and CalendarSystem	PSU
JDK-8273695	17	Safepoint deadlock on VMOperation_lock	PSU
JDK-8273678	17	TableAccessibility and TableRowAccessibility miss autorelease	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8273646	17, 11	Add openssl from path variable also in to Default System Openssl Path in OpensslArtifactFetcher	PSU
JDK-8273638	17	javax/swing/JTable/4235420/bug4235420.java fails in GTK L&F	PSU
JDK-8273614	17	Shenandoah: intermittent timeout with ConcurrentGCBreakpoint tests	PSU
JDK-8273606	17, 11	Zero: SPARC64 build fails with si_band type mismatch	PSU
JDK-8273595	17	tools/jpackage tests do not work on apt-based Linux distros like Debian	PSU
JDK-8273593	17	[REDO] Warn user when using mac-sign option with unsigned app-image.	PSU
JDK-8273592	17	Backout JDK-8271868	PSU
JDK-8273575	17, 15, 13	memory leak in appendBootClassPath(), paths must be deallocated	PSU
JDK-8273547	11	[11u] [JVMCI] Partial module-info.java backport of JDK-8223332	PSU
JDK-8273541	11	Cleaner Thread creates with normal priority instead of MAX_PRIORITY - 2	PSU
JDK-8273514	17	java/util/DoubleStreamSums/CompensatedSums.java failure	PSU
JDK-8273505	17	runtime/cds/appcds/loaderConstraints/DynamicLoaderConstraintsTest.java#default-cl crashed with SIGSEGV in MetaspaceShared::link_shared_classes	PSU
JDK-8273498	17, 11	compiler/c2/Test7179138_1.java timed out	PSU
JDK-8273489	17	Zero: Handle UseHeavyMonitors on all monitorenter paths	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8273487	17	Zero: Handle "zero" variant in runtime tests	PSU
JDK-8273486	17	Zero: Handle DiagnoseSyncOnValueBasedClasses VM option	PSU
JDK-8273483	17	Zero: Clear pending JNI exception check in native method handler	PSU
JDK-8273451	17	Remove unreachable return in mutexLocker::wait	PSU
JDK-8273450	17	Fix the copyright header of SVML files	PSU
JDK-8273440	17	Zero: Disable runtime/Unsafe/InternalErrorTest.java	PSU
JDK-8273416	17	C2: assert(false) failed: bad AD file after JDK-8252372 with UseSSE={0,1}	PSU
JDK-8273408	17	java.lang.AssertionError: typeSig ERROR on generated class property of record	PSU
JDK-8273378	17	Shenandoah: Remove the remaining uses of os::is_MP	PSU
JDK-8273376	17	Zero: Disable vtable/itableStub gtests	PSU
JDK-8273375	17	Remove redundant 'new String' calls after concatenation in java.desktop	PSU
JDK-8273373	17, 11	Zero: Cannot invoke JVM in primordial threads on Zero	PSU
JDK-8273361	17	InfoOptsTest is failing in tier1	PSU
JDK-8273359	17	CI: cilInstanceKlass::get_canonical_holder() doesn't respect instance size	PSU
JDK-8273342	17, 11, 8	Null pointer dereference in classFileParser.cpp:2817	PSU
JDK-8273335	17	compiler/blackhole tests should not run with interpreter-only VMs	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8273333	17	Zero should warn about unimplemented -XX:+LogTouchedMethods	PSU
JDK-8273318	17	Some containers/docker/TestJFREvents.java configs are running out of memory	PSU
JDK-8273315	17	Parallelize and increase timeouts for java/foreign/TestMatrix.java test	PSU
JDK-8273314	17, 11	Add tier4 test groups	PSU
JDK-8273278	17	Support XSLT on GraalVM Native Image—deterministic bytecode generation in XSLT	PSU
JDK-8273235	17, 11	tools/launcher/HelpFlagsTest.java Fails on Windows 32bit	PSU
JDK-8273234	17	extended 'for' with expression of type tvar causes the compiler to crash	PSU
JDK-8273229	17, 15, 13, 11	Update OS detection code to recognize Windows Server 2022	PSU
JDK-8273176	17	handle latest VS2019 in abstract_vm_version	PSU
JDK-8273165	17	GraphKit::combine_exception_states fails with "matching stack sizes" assert	PSU
JDK-8273135	17	java/awt/color/ICC_ColorSpace/MTTransformReplacedProfile.java crashes in liblcms.dylib with NULLSeek+0x7	PSU
JDK-8273026	17, 15, 13, 11	Slow LoginContext.login() on multi threading application	PSU
JDK-8273021	17	C2: Improve Add and Xor ideal optimizations	PSU
JDK-8272973	17	Incorrect compile command used by TestIllegalArrayCopyBeforeInfiniteLoop	PSU
JDK-8272970	17	Parallelize runtime/InvocationTests/	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8272966	11	test/jdk/java/awt/Robot/FlushCurrentEvent.java fails by timeout	PSU
JDK-8272914	17, 11	Create hotspot:tier2 and hotspot:tier3 test groups	PSU
JDK-8272902	11	Bump update version for OpenJDK: jdk-11.0.14	PSU
JDK-8272859	17	Javadoc external links should only have feature version number in URL	PSU
JDK-8272856	17	DoubleFlagWithIntegerValue uses G1GC-only flag	PSU
JDK-8272854	17	split runtime/CommandLine/PrintTouchedMethods.java test	PSU
JDK-8272850	17, 11	Drop zapping values in the Zap* option descriptions	PSU
JDK-8272846	17	Move some runtime/Metaspace/elastic/ tests out of tier1	PSU
JDK-8272838	17	Move CriticalJNI tests out of tier1	PSU
JDK-8272836	17, 11	Limit run time for java/lang/invoke/LFCaching tests	PSU
JDK-8272828	11	Add correct licenses to jszip.md	PSU
JDK-8272783	17, 11	Epsilon: Refactor tests to improve performance	PSU
JDK-8272720	17, 11	Fix the implementation of loop unrolling heuristic with LoopPercentProfileLimit	PSU
JDK-8272703	17	StressSeed should be set via FLAG_SET_ERGO	PSU
JDK-8272639	17	jpackaged applications using microphone on mac	PSU
JDK-8272574	17, 11	C2: assert(false) failed: Bad graph detected in build_loop_late	PSU
JDK-8272570	17, 11	C2: crash in PhaseCFG::global_code_motion	PSU

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JDK-8272562	17	C2: assert(false) failed: Bad graph detected in build_loop_late	PSU
JDK-8272473	17	Parsing epoch seconds at a DST transition with a non-UTC parser is wrong	PSU
JDK-8272413	17	Incorrect num of element count calculation for vector cast	PSU
JDK-8272391	17	Undeleted debug information	PSU
JDK-8272369	17	java/io/File/GetXSpace.java failed with "RuntimeException: java.nio.file.NoSuchFileException: /run/user/0"	PSU
JDK-8272345	17	macos doesn't check <code>os::set_boot_path()</code> result	PSU
JDK-8272342	17, 11, 8	[TEST_BUG] java/awt/print/PrinterJob/PageDialogMarginTest.java catches all exceptions	PSU
JDK-8272335	17	runtime/cds/appcds/MoveJDKTest.java doesn't check exit codes	PSU
JDK-8272328	17	java.library.path is not set properly by Windows jpackage app launcher	PSU
JDK-8272318	17, 11	Improve performance of HeapDumpAllTest	PSU
JDK-8272316	11	Wrong Boot JDK help message in 11	PSU
JDK-8272305	17	several hotspot runtime/modules don't check exit codes	PSU
JDK-8272181	11	Windows-AArch64:Backport fix of <code>Backtracing broken on PAC enabled systems</code>	PSU
JDK-8272180	11	Upgrade JSZip from v3.6.0 to v3.7.1	PSU
JDK-8272170	17	Missing memory barrier when checking active state for regions	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8272162	8	S4U2Self ticket without forwardable flag	PSU
JDK-8272114	17	Unused _last_state in osThread_windows	PSU
JDK-8272047	17	java/nio/channels/FileChannel/Transfer2GPlus.java failed with Unexpected transfer size: 2147418112	PSU
JDK-8271954	17	C2: assert(false) failed: Bad graph detected in build_loop_late	PSU
JDK-8271868	17	Warn user when using mac-sign option with unsigned app-image.	PSU
JDK-8271862	17	C2 intrinsic for Reference.refersTo() is often not used	PSU
JDK-8271855	17	[TESTBUG] Wrong weakCompareAndSet assumption in UnsafeIntrinsicsTest	PSU
JDK-8271722	17	[TESTBUG] gc/g1/TestMixedGCLiveThreshold.java can fail if G1 Full GC uses >1 workers	PSU
JDK-8271718	17	Crash when during color transformation the color profile is replaced	PSU
JDK-8271605	17	Update JMH devkit to 1.32	PSU
JDK-8271600	17	C2: CheckCastPP which should closely follow Allocate is sunk of a loop	PSU
JDK-8271567	17, 11	AArch64: AES Galois CounterMode (GCM) interleaved implementation using vector instructions	PSU
JDK-8271560	17, 11	sun/security/ssl/DHKeyExchange/LegacyDHEKeyExchange.java still fails due to "An established connection was aborted by the software in your host machine"	PSU
JDK-8271490	17, 11	[ppc] [s390]: Crash in JavaThread::pd_get_top_frame_for_profiling	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8271463	17	Updating RE Configs for Upcoming CPU Release 17.0.2 on master branch for jdk17u-cpu and jdk17u-cpu-open repos.	PSU
JDK-8271459	17, 11	C2: Missing NegativeArraySizeException when creating StringBuilder with negative capacity	PSU
JDK-8271341	17, 11	Opcodes() != Op_If && Opcodes() != Op_RangeCheck) outcnt() == 2 assert failure with Test7179138_1.java	PSU
JDK-8271340	17, 11	Crash PhaseIdealLoop::clone_outer_loop	PSU
JDK-8271323	17	[TESTBUG] serviceability/sa/ClhsdbCDSCore.java fails with -XX:TieredStopAtLevel=1	PSU
JDK-8271315	17	Redo: Nimbus JTree renderer properties persist across L&F changes	PSU
JDK-8271308	17	(fc) FileChannel.transferTo() transfers no more than Integer.MAX_VALUE bytes in one call	PSU
JDK-8271287	17, 11	jdk/jshell/CommandCompletionTest.java fails with "lists don't have the same size expected"	PSU
JDK-8271254	17	javac generates unreachable code when using empty semicolon statement	PSU
JDK-8271215	17	Fix data races in G1PeriodicGCTask	PSU
JDK-8271170	17	Add unit test for what jpackage app launcher puts in the environment	PSU
JDK-8271142	17	package help is not displayed for missing X11/extensions/Xrandr.h	PSU
JDK-8271121	17	ZGC: stack overflow (segv) when -Xlog:gc+start=debug	PSU
JDK-8271071	17	accessibility of a table on macOS lacks cell navigation	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8270946	17	X509CertImpl.getFingerprint should not return the empty String	PSU
JDK-8270901	17	Typo PHASE_CPP in CompilerPhaseType	PSU
JDK-8270886	17, 11	Crash in PhaseldealLoop::verify_strip_mined_scheduling	PSU
JDK-8270517	17, 11	Add Zero support for LoongArch	PSU
JDK-8270320	17	JDK-8270110 committed invalid copyright headers	PSU
JDK-8270290	17, 11	NTLM authentication fails if HEAD request is used	PSU
JDK-8270171	17	Shenandoah: Cleanup TestStringDedup and TestStringDedupStress tests	PSU
JDK-8270116	17, 11	Expand GroupLayoutTraversalTest.java to run in all LaFs, including Aqua on macOS	PSU
JDK-8270110	17	Shenandoah: Add test for JDK-8269661	PSU
JDK-8269984	11	[macos] JTabbedPane title looks like disabled	PSU
JDK-8269951	17, 11	[macos] Focus not painted in JButton when setBorderPainted(false) is invoked	PSU
JDK-8269924	17	Shenandoah: Introduce weak/strong marking asserts	PSU
JDK-8269768	11	JFR Terminology Refresh	PSU
JDK-8269687	17	pauth_aarch64.hpp include name is incorrect	PSU
JDK-8269656	17, 11	The test test/langtools/tools/javac/versions/Versions.java has duplicate test cycles	PSU
JDK-8269637	17	javax/swing/JFileChooser/FileSystemView/SystemIconTest.java fails on windows	PSU
JDK-8269481	17	SctpMultiChannel never releases own file descriptor	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8269426	11	Rename test/jdk/java/lang/invoke/t8150782 to accessClassAndFindClass	PSU
JDK-8269280	17	(bf) Replace StringBuffer in *Buffer.toString()	PSU
JDK-8269269	17	[macos11] SystemIconTest fails with ClassCastException	PSU
JDK-8269216	17	Useless initialization in com/sun/crypto/provider/PBES2Parameters.java	PSU
JDK-8269179	15	Crash in TestMacroLogicVector::testSubWordBoolean: assert(_base >= VectorMask && _base < VectorZ) failed: Not a Vector	PSU
JDK-8269113	17	Javac throws when compiling switch (null)	PSU
JDK-8269034	11	AccessControlException for SunPKCS11 daemon threads	PSU
JDK-8269031	17	linux x86_64 check for binutils 2.25 or higher after 8265783	PSU
JDK-8268927	17	Windows: link error: unresolved external symbol "int __cdecl convert_to_unicode(char const *,wchar_t **)"	PSU
JDK-8268894	17	forged ASTs can provoke an AIOOBE at com.sun.tools.javac.jvm.ClassWriter::writePosition	PSU
JDK-8268893	17	jcmm to trim the glibc heap	PSU
JDK-8268885	17	duplicate checkcast when destination type is not first type of intersection type	PSU
JDK-8268882	17	C2: assert(n<outcnt() != 0 C<top() == n n<is_Proj()) failed: No dead instructions after post-alloc	PSU
JDK-8268860	17	Windows-Aarch64 build is failing in GitHub actions	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8268672	11	C2: assert(!loop.is_member(u_loop)) failed: can be in outer loop or out of both loops only	PSU
JDK-8268626	17	Remove native pre-jdk9 support for jreg failure handler	PSU
JDK-8268555	11	Update HttpClient tests that use ITestContext to jreg 6+1	PSU
JDK-8268464	17	Remove dependency of TestHttpsServer, HttpTransaction, HttpCallback from open/test/jdk/sun/net/www/protocol/https/ tests	PSU
JDK-8268457	17	XML Transformer outputs Unicode supplementary character incorrectly to HTML	PSU
JDK-8268361	17	Fix the infinite loop in next_line	PSU
JDK-8268294	17	Reusing HttpClient in a WebSocket.Listener hangs.	PSU
JDK-8268284	17	javax/swing/JComponent/7154030/bug7154030.java fails with "Exception: Failed to hide opaque button"	PSU
JDK-8268093	11	Manual Testcase: "sun/security/krb5/config/native/TestDynamicStore.java" Fails with NPE	PSU
JDK-8267388	17	Create implementation for NSAccessibilityTable protocol	PSU
JDK-8267387	17	Create implementation for NSAccessibilityOutline protocol	PSU
JDK-8267385	17	Create NSAccessibilityElement implementation for JavaComponentAccessibility	PSU
JDK-8267304	11	Bump global JReg memory limit to 768m	PSU
JDK-8267256	17, 11	Extend minimal retry for loopback connections on Windows to PlainSocketImpl	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8267246	11	-XX:MaxRAMPercentage=0 is unreasonable for jtreg tests on many-core machines	PSU
JDK-8266988	17	compiler/jvmci/compilerToVM/IsMatureTest.java fails with Unexpected isMature state for multiple times invoked method: expected false to equal true	PSU
JDK-8266949	15, 13, 11	Check possibility to disable OperationTimedOut on Unix	PSU
JDK-8266579	11, 8	Update test/jdk/java/lang/ProcessHandle/PermissionTest.java & test/jdk/java/sql/testng/util/TestPolicy.java	PSU
JDK-8266510	17	Nimbus JTree default tree cell renderer does not use selected text color	PSU
JDK-8266239	17	Some duplicated javac command-line options have repeated effect	PSU
JDK-8265524	11	Upgrading JSZip from v3.2.2 to v3.6.0	PSU
JDK-8265019	11, 8	Update tests for additional TestNG test permissions	PSU
JDK-8264824	11	java/net/Inet6Address/B6206527.java doesn't close ServerSocket properly	PSU
JDK-8264526	11	javax/swing/text/html/parser/Parser/8078268/bug8078268.java timeout	PSU
JDK-8264303	17	Create implementation for NSAccessibilityTabGroup protocol peer	PSU
JDK-8264298	17	Create implementation for NSAccessibilityRow protocol peer	PSU
JDK-8264297	17	Create implementation for NSAccessibilityProgressIndicator protocol peer	PSU
JDK-8264296	17	Create implementation for NSAccessibilityPopUpButton protocol peer	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8264295	17	Create implementation for NSAccessibilityMenuItem protocol peer	PSU
JDK-8264294	17	Create implementation for NSAccessibilityMenuBar protocol peer	PSU
JDK-8264293	17	Create implementation for NSAccessibilityMenu protocol peer	PSU
JDK-8264292	17	Create implementation for NSAccessibilityList protocol peer	PSU
JDK-8264291	17	Create implementation for NSAccessibilityCell protocol peer	PSU
JDK-8264287	17	Create implementation for NSAccessibilityComboBox protocol peer	PSU
JDK-8264286	17	Create implementation for NSAccessibilityColumn protocol peer	PSU
JDK-8263897	11	compiler/c2/aarch64/TestVolatilesSerial.java failed with "java.lang.RuntimeException: Wrong method"	PSU
JDK-8263773	17, 11	Reenable German localization for builds at Oracle	PSU
JDK-8263375	17	Support stack watermarks in Zero VM	PSU
JDK-8263364	17	sun/net/www/http/KeepAliveStream/KeepAliveStreamCloseWithWrongContentLength.java wedged in getInputStream	PSU
JDK-8263362	11	Avoid division by 0 in java/awt/font/TextJustifier.java justify	PSU
JDK-8263303	11	C2 compilation fails with assert(found_sfpt) failed: no node in loop that's not input to safepoint	PSU
JDK-8263068	11	Rename safefetch.hpp to safefetch.inline.hpp	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8263059	17, 11	security/infra/java/security/cert/CertPathValidator/certification/ComodoCA.java fails due to revoked cert	PSU
JDK-8262844	11	(fs) FileStore.supportsFileAttributeView might return false negative in case of ext3	PSU
JDK-8262438	11	sun/security/ssl/SSLLogger/LoggingFormatConsistency.java failed with "SocketException: Socket is closed"	PSU
JDK-8262316	15	Reducing locks in RSA Blinding	PSU
JDK-8262095	17	NPE in Flow\$FlowAnalyzer.visitApply: Cannot invoke getThrownTypes because tree.meth.type is null	PSU
JDK-8262031	17	Create implementation for NSAccessibilityNavigableStaticText protocol	PSU
JDK-8261916	11	gtest/GTestWrapper.java vmErrorTest.unimplemented1_vm_assert failed	PSU
JDK-8261661	11	gc/stress/TestReclaimStringsLeaksMemory.java fails because Reserved memory size is too big	PSU
JDK-8261579	17	AArch64: Support for weaker memory ordering in Atomic	PSU
JDK-8261297	11	NMT: Final report should use scale 1	PSU
JDK-8261075	11	Create stubRoutines.inline.hpp with SafeFetch implementation	PSU
JDK-8261071	11	AArch64: Refactor interpreter native wrappers	PSU
JDK-8261036	11	Reduce classes loaded by CleanerFactory initialization	PSU
JDK-8260690	11	JConsole User Guide Link from the Help menu is not accessible by keyboard	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8260571	11	Add PrintMetaspaceStatistics to print metaspace statistics upon VM exit	PSU
JDK-8259237	11	Demo selection changes with left/right arrow key. No need to press space for selection.	PSU
JDK-8258855	11	Two tests sun/security/krb5/auto/ReplayCacheTestProc.java and ReplayCacheTestProcWithMD5.java failed on OL8.3	PSU
JDK-8258457	11	testlibrary_tests/ctw/JarDirTest.java fails with InvalidPathException on windows	PSU
JDK-8256956	11	RegisterImpl::max_slots_per_register is incorrect on AMD64	PSU
JDK-8256372	11	[macos] Unexpected symbol was displayed on JTextField with Monospaced font	PSU
JDK-8256202	11	Some tweaks for jarsigner tests PosixPermissionsTest and SymLinkTest	PSU
JDK-8256201	11	java/awt/FullScreen/FullscreenWindowProps/FullscreenWindowProps.java failed	PSU
JDK-8256182	11	Update qemu-debootstrap cross-compilation recipe	PSU
JDK-8256152	11	tests fail because of ambiguous method resolution	PSU
JDK-8256066	15, 11	Tests use deprecated TestNG API that is no longer available in new versions	PSU
JDK-8256009	11	Remove src/hotspot/share/adlc/Test/i486.ad	PSU
JDK-8255722	11	Create a new test for rotated blit	PSU
JDK-8255264	11	Support for identifying the full range of IPv4 localhost addresses on Windows	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8255227	11	java/net/httpclient/FlowAdapterPublisherTest.java intermittently failing with TestServer: start exception: java.io.IOException: Invalid preface	PSU
JDK-8254802	11	ThrowingPushPromisesAsStringCustom.java fails in "try throwing in GET_BODY"	PSU
JDK-8253866	11	Security Libs Terminology Refresh	PSU
JDK-8253763	11	ParallelObjectIterator should have virtual destructor	PSU
JDK-8253702	15, 13	BigSur version number reported as 10.16, should be 11.nn	PSU
JDK-8253682	11	The AppletInitialFocusTest1.java is unstable	PSU
JDK-8253497	11	Core Libs Terminology Refresh	PSU
JDK-8253421	15	Initialize JFR trace-IDs with zero	PSU
JDK-8253147	11	The javax/swing/JPopupMenu/7154841/bug7154841.java fail on big screens	PSU
JDK-8252114	11	Windows-AArch64: Enable and test ZGC and ShenandoahGC	PSU
JDK-8252051	11	Make mlvmJvmtiUtils strncpy uses GCC 10.x friendly	PSU
JDK-8252049	11	Native memory leak in ciMethodData ctor	PSU
JDK-8251570	11	JDK-8215624 causes assert(worker_id < _n_workers) failed: Invalid worker_id	PSU
JDK-8251377	11	[macos11] JTabbedPane selected tab text is barely legible	PSU
JDK-8251155	11	HostIdentifier fails to canonicalize hostnames starting with digits	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8250888	11	nsk/jvmti/scenarios/general_functions/GF08/gf08t001/TestDriver.java fails	PSU
JDK-8250863	11	Build error with GCC 10 in NetworkInterface.c and k_standard.c	PSU
JDK-8250839	11	Improve test template SSLEngineTemplate with SSLContextTemplate	PSU
JDK-8250810	11	Push missing parts of JDK-8248817	PSU
JDK-8250521	11	Configure initial RTO to use minimal retry for loopback connections on Windows	PSU
JDK-8249195	11	Change to Xcode 11.3.1 for building on MacOS at Oracle	PSU
JDK-8248865	15	Document JNDI/LDAP timeout properties	PSU
JDK-8248187	11	[TESTBUG] javax/swing/plaf/basic/BasicGraphicsUtils/8132119/bug8132119.java fails with String is not properly drawn	PSU
JDK-8247510	11	typo in IllegalHandshakeMessage	PSU
JDK-8247403	11	JShell: No custom input (e.g. from GUI) possible with JavaShellToolBuilder	PSU
JDK-8246807	11	Incorrect copyright header in TimeZoneDatePermissionCheck.sh	PSU
JDK-8246114	11	java/net/MulticastSocket/Promiscuous.java fails after 8241072 (multi-homed systems)	PSU
JDK-8245665	11	Test WeakAlg.java should only make sure no warning for weak signature algorithms by keytool on root CA	PSU
JDK-8245165	11	Update bug id for javax/swing/text/StyledEditorKit/4506788/bug4506788.java in ProblemList	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8245147	11	Refactor and improve utility of test/langtools/tools/javac/versions/Versions.java	PSU
JDK-8244675	17	assert(IncrementalInline (_late_inlines.length() == 0 && !has_mh_late_inlines()))	PSU
JDK-8244292	11	Headful clients failing with --illegal-access=deny	PSU
JDK-8242526	11	PIT: javax/swing/JInternalFrame/8020708/bug8020708.java fails in mach5 ubuntu system	PSU
JDK-8242044	11	Add basic HTTP/1.1 support to the HTTP/2 Test Server	PSU
JDK-8241087	13	Build failure with VS 2019 (16.5.0) due to C2039 and C2873	PSU
JDK-8240256	11	Better resource cleaning for SunPKCS11 Provider	PSU
JDK-8239886	8	Minimal VM build fails after JDK-8237499	PSU
JDK-8239827	11	The test OpenByUNCPathNameTest.java should be changed to be manual	PSU
JDK-8239422	11	[TESTBUG] compiler/c1/TestPrintIRDuringConstruction.java failed when C1 is disabled	PSU
JDK-8239334	13, 11	Tab Size does not work correctly in JTextArea with setLineWrap on	PSU
JDK-8238932	13	Invalid tier1_gc_1 test group definition	PSU
JDK-8238677	11	java/net/httpclient/ssltest/CertificateTest.java should not specify TLS version	PSU
JDK-8238649	17	Call new Win32 API SetThreadDescription in os::set_native_thread_name	PSU
JDK-8238448	13	RSASSA-PSS signature verification fail when using certain odd key sizes	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8237589	11	Fix copyright header formatting	PSU
JDK-8237499	8	JFR: Include stack trace in the ThreadStart event	PSU
JDK-8237354	11	Add option to jcmd to write a gzipped heap dump	PSU
JDK-8236596	11	HttpClient leaves HTTP/2 sockets in CLOSE_WAIT, when using proxy tunnel	PSU
JDK-8236177	11	assert(status == 0) failed: error ETIMEDOUT(60), cond_wait	PSU
JDK-8236042	11	[TESTBUG] serviceability/sa/ClhsdbCDSCore.java fails with -Xcomp -XX:TieredStopAtLevel=1	PSU
JDK-8235784	11	java/lang/invoke/VarHandles/VarHandleTestByteArrayAsInt.java fails due to timeout with fastdebug bits	PSU
JDK-8234823	11	java/net/Socket/Timeouts.java testcase testTimedConnect2() fails on Windows 10	PSU
JDK-8234802	11	[TESTBUG] Test Right Mouse Button Drag Gesture Recognition in all the platforms	PSU
JDK-8233647	11	[TESTBUG] JColorChooser/Test8051548.java is failing on macos	PSU
JDK-8233644	11	[TESTBUG] JInternalFrame test bug8020708.java is failing on macos	PSU
JDK-8233643	11	[TESTBUG] JMenu test bug4515762.java fails on macos	PSU
JDK-8233642	11	[TESTBUG] JMenuBar test bug 4750590.java fails on macos	PSU
JDK-8233641	11	[TESTBUG] JMenuItem test bug4171437.java fails on macos	PSU
JDK-8233638	11	[TESTBUG] Swing test ScreenMenuBarInputTwice.java fails on macos	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8233637	11	[TESTBUG] Swing ActionListenerCalledTwiceTest.java fails on macos	PSU
JDK-8233635	11	[TESTBUG] ProgressMonitorEscapeKeyPress.java fails on macos	PSU
JDK-8233634	11	[TESTBUG] Swing text test bug4278839.java fails on macos	PSU
JDK-8233570	11	[TESTBUG] HTMLToolkit test bug5043626.java is failing on macos	PSU
JDK-8233569	11	[TESTBUG] JTextComponent test bug6361367.java fails on macos	PSU
JDK-8233567	11	[TESTBUG] FocusSubRequestTest.java fails on macos	PSU
JDK-8233566	11	[TESTBUG] KeyboardFocusManager tests failing on MacoS	PSU
JDK-8233564	11	[TESTBUG] MouseComboBoxTest.java is failing	PSU
JDK-8233562	11	[TESTBUG] Swing StyledEditorKit test bug4506788.java fails on MacOS	PSU
JDK-8233561	11	[TESTBUG] Swing text test bug8014863.java fails on macos	PSU
JDK-8233560	11	[TESTBUG] ToolTipManager/Test6256140.java is failing on macos	PSU
JDK-8233559	11	[TESTBUG] TestNimbusOverride.java is failing on macos	PSU
JDK-8233556	11	[TESTBUG] JPopupMenu tests fail on MacOS	PSU
JDK-8233555	11	[TESTBUG] JRadioButton tests failing on MacoS	PSU
JDK-8233553	11	[TESTBUG] JSpinner test bug4973721.java fails on MacOS	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8233552	11	[TESTBUG] JTable Test bug7068740.java fails on MacOS	PSU
JDK-8233550	11	[TESTBUG] JTree tests fail regularly on MacOS	PSU
JDK-8233403	11	Improve verbosity of some httpclient tests	PSU
JDK-8233020	17	(fs) UnixFileSystemProvider should use StaticProperty.userDir().	PSU
JDK-8231501	11	VM crash in MethodData::clean_extra_data(CleanExtraDataClosure*): fatal error: unexpected tag 99	PSU
JDK-8230307	13	ZGC: Make zGlobals and zArguments OS agnostic	PSU
JDK-8230228	11	[TESTBUG] Several runtime/ErrorHandling tests may fail on some platforms	PSU
JDK-8230067	11	Add optional automatic retry when running jtreg tests	PSU
JDK-8230019	11	[REDO] compiler/types/correctness/* tests fail with "assert(recv == __null recv->is_klass()) failed: wrong type"	PSU
JDK-8229935	11	[TEST_BUG]: bug8132119.java inconsistently positions text	PSU
JDK-8228508	11	[TESTBUG] java/net/httpclient/SmokeTest.java fails on Windows7	PSU
JDK-8228442	11	DHKeyExchange/LegacyDHEKeyExchange.java failed due to "SSLException: An established connection was aborted by the software in your host machine"	PSU
JDK-8226943	11	compile error in libfollowref003.cpp with XCode 10.2 on macosx	PSU
JDK-8226810	15	Failed to launch JVM because of NullPointerException occured on System.props	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8224829	11	AsyncSSLSocketClose.java has timing issue	PSU
JDK-8223923	17, 11	C2: Missing interference with mismatched unsafe accesses	PSU
JDK-8223658	11	Performance regression of XML.validation in 13-b19	PSU
JDK-8223400	11	Replace some enums with static const members in hotspot/runtime	PSU
JDK-8223173	13	Implement fast class initialization checks on AARCH64	PSU
JDK-8223141	11	Change (count) suffix _ct into _cnt.	PSU
JDK-8223140	11	Clean-up in 'ok_to_convert()'	PSU
JDK-8223139	11	Rename mandatory policy-do routines.	PSU
JDK-8223138	11	Small clean-up in loop-tree support.	PSU
JDK-8223137	11	Rename predicate 'do_unroll_only()' to 'is_unroll_only()'.	PSU
JDK-8222446	11	assert(C☐env()☐system_dictionary_modification_counter_changed()) failed: Must invalidate if TypeFuncs differ	PSU
JDK-8221903	11	PIT: javax/swing/RepaintManager/IconifyTest/IconifyTest.java fails on ubuntu18.04	PSU
JDK-8221902	11	PIT: javax/swing/JRadioButton/FocusTraversal/FocusTraversal.java fails on ubuntu	PSU
JDK-8221305	11	java/awt/FontMetrics/MaxAdvancelMax.java fails on MacOS + Solaris	PSU
JDK-8221259	11	New tests for java.net.Socket to exercise long standing behavior	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8219986	11	Change to Xcode 10.1 for building on MacOSx at Oracle	PSU
JDK-8218483	11	Crash in "assert(!_daemon_threads_count == get_value() > daemon_count) failed: thread count mismatch 5 : 5"	PSU
JDK-8217903	11	java/net/httpclient/Response204.java fails with 404	PSU
JDK-8217882	11	java/net/httpclient/MaxStreams.java failed once	PSU
JDK-8217633	11	Configurable extensions with system properties	PSU
JDK-8217438	11	Adapt tools//launcher/Test7029048.java for AIX	PSU
JDK-8217377	11	javax/swing/JPopupMenu/6583251/bug6583251.java failed with UnsupportedOperationException exception	PSU
JDK-8217375	11	jarsigner breaks old signature with long lines in manifest	PSU
JDK-8216417	11	cleanup of IPv6 scope-id handling	PSU
JDK-8216318	11	The usage of Disposer in the java.awt.Robot can be deleted	PSU
JDK-8215889	11	assert(!_unloading) failed: This oop is not available to unloading class loader data with ZGC	PSU
JDK-8215568	11	Refactor SA clhsdb tests to use ClhsdbLauncher	PSU
JDK-8215410	11	Regression test for JDK-8214994	PSU
JDK-8214761	17	Bug in parallel Kahan summation implementation	PSU
JDK-8214469	11	[macos] PIT: java/awt/Choice/ChoiceKeyEventReaction/ChoiceKeyEventReaction.java fails	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8213707	11	[TEST] vmTestbase/nsk/stress/except/except011.java failed due to wrong class name	PSU
JDK-8213330	11	Fix legal headers in i18n tests	PSU
JDK-8213328	11	Update test copyrights in test/java/util/zip and test/jdk/tools	PSU
JDK-8213306	11	Fix legal headers in test/java/nio	PSU
JDK-8213305	11	Fix legal headers in test/java/math	PSU
JDK-8213301	11	Fix legal headers in jdk logging tests	PSU
JDK-8213296	11	Fix legal headers in test/jdk/java/net	PSU
JDK-8213263	11	fix legal headers in test/langtools	PSU
JDK-8213189	11	Make restricted headers in HTTP Client configurable and remove Date by default	PSU
JDK-8213110	11	Remove the use of applets in automatic tests	PSU
JDK-8211999	11	Window positioning bugs due to overlapping GraphicsDevice bounds (Windows/HiDPI)	PSU
JDK-8211905	11	Remove multiple casts for EM06 file	PSU
JDK-8211148	11	var in implicit lambdas shouldn't be accepted for source < 11	PSU
JDK-8210984	11	[TESTBUG] hs203t003 fails with "# ERROR: hs203t003.cpp, 218: NSK_CPP_STUB2 (ResumeThread, jvmti, thread)"	PSU
JDK-8210920	11	Native C++ tests are not using CXXFLAGS	PSU
JDK-8210726	11	Fix up a few minor nits forgotten by JDK-8210665	PSU
JDK-8210689	11	Remove the multi-line old C style for string literals	PSU
JDK-8210481	11	Remove #ifdef cplusplus from vmTestbase	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8210395	11	Add doc to SecurityTools.java	PSU
JDK-8210392	11	assert(Compile::current()&live_nodes() < Compile::current()&max_node_limit()) failed: Live Node limit exceeded limit	PSU
JDK-8210353	11	Move java/util/Arrays/TimSortStackSize2.java back to tier1	PSU
JDK-8210242	11	[TESTBUG] vmTestbase/nsk/stress/jni/jnistress001.java crashes with EXCEPTION_ACCESS_VIOLATION on windows-x86	PSU
JDK-8210205	11	build fails on AIX in hotspot cpp tests (for example getstacktr001.cpp)	PSU
JDK-8209611	11	use C++ compiler for hotspot tests	PSU
JDK-8208242	11	Add @requires to vmTestbase/gc/g1 tests	PSU
JDK-8207936	11	TestZipFile failed with java.lang.AssertionError exception	PSU
JDK-8206085	11	Refactor langtools/tools/javac/versions/Versions.java	PSU
JDK-8204161	11	[TESTBUG] auto failed with the "Applet thread threw exception: java.lang.UnsupportedOperationException" exception	PSU
JDK-8202342	11	[Graal] fromTonga/nsk/jvmti/unit/FollowReferences/followref003/TestDescription.java fails with "Location mismatch" errors	PSU
JDK-8201224	11	Make string buffer size dynamic in mlvmJvmtiUtils.c	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8199529	11	javax/swing/text/Utilities/8142966/SwingFontMetricsTest.java fails on windows	PSU
JDK-8199138	11	Add RISC-V support to Zero	PSU
JDK-8198624	11	java/awt/KeyboardFocusmanager/TypeAhead/SubMenuShowTest/SubMenuShowTest.html fails on mac	PSU
JDK-8198623	11	java/awt/KeyboardFocusmanager/TypeAhead/EnqueueWithDialogButtonTest/EnqueueWithDialogButtonTest.java fails on mac	PSU
JDK-8198619	11	java/awt/Focus/FocusTraversalPolicy/ButtonGroupLayoutTraversal/ButtonGroupLayoutTraversalTest.java fails on mac	PSU
JDK-8198617	11	java/awt/Focus/6382144/EndlessLoopTest.java fails on mac	PSU
JDK-8198616	11	java/awt/Focus/6378278/InputVerifierTest.java fails on mac	PSU
JDK-8197811	11	Test java/awt/Choice/PopupPosTest/PopupPosTest.java fails on Windows	PSU
JDK-8197800	11	Test java/awt/Focus/NonFocusableWindowTest/NoEventsTest.java fails on Windows	PSU
JDK-8197560	11	test javax/swing/JTree/8003400/Test8003400.java fails	PSU
JDK-8196572	8	[TESTBUG] Test sun/java2d/cmm/ColorConvertOp/ColConvCCMTest.java sun/java2d/cmm/ColorConvertOp/MTColConvTest.java fails	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8196100	15, 13	javax/swing/text/JTextComponent/5074573/bug5074573.java fails	PSU
JDK-8196096	11	javax/swing/JPopupMenu/6580930/bug6580930.java fails	PSU
JDK-8195703	11	BasicJDWPCConnectionTest.java: 'App exited unexpectedly with 2'	PSU
JDK-8190793	8	Httpserver does not detect truncated request body	PSU
JDK-8190753	17, 15, 13, 11	(zipfs): Accessing a large entry (> 2^31 bytes) leads to a negative initial size for ByteArrayOutputStream	PSU
JDK-8190482	8	InnocuousThread creation should not require the caller to possess enableContextClassLoaderOverride	PSU
JDK-8187649	11, 8	ArrayIndexOutOfBoundsException in java.util.JapaneseImperialCalendar	PSU
JDK-8187450	8	JNI local refs exceeds capacity warning in NetworkInterface::getAll	PSU
JDK-8185005	13	Improve performance of ThreadMXBean.getThreadInfo(long ids[], int maxDepth)	PSU
JDK-8183543	8	Aarch64: C2 compilation often fails with "failed spill-split-recycle sanity check"	PSU
JDK-8182036	8	Load from initializing arraycopy uses wrong memory state	PSU
JDK-8180573	11	Refactor sun/security/tools shell tests to plain java tests	PSU
JDK-8180571	11	Refactor sun/security/pkcs11 shell tests to plain java tests and fix failures	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8180569	11	Refactor sun/security/krb5/ shell tests to plain java tests	PSU
JDK-8180568	11	Refactor javax/crypto shell tests to plain java tests	PSU
JDK-8179880	11	Refactor javax/security shell tests to plain java tests	PSU
JDK-8177536	8	Avoid Apple Peer-to-Peer interfaces in networking tests	PSU
JDK-8177393	8	Result of RescaleOp for 4BYTE_ABGR images may be 25% black	PSU
JDK-8174819	17, 11	java/nio/file/WatchService/LotsOfEvents.java fails intermittently	PSU
JDK-8171998	11	javax/swing/JMenu/4692443/bug4692443.java fails on Windows	PSU
JDK-8171381	11	[TEST_BUG] [macos] javax/swing/JPopupMenu/7156657/bug7156657.java fails on OS X	PSU
JDK-8169959	11	javax/swing/JTable/6263446/bug6263446.java: Table should be editing	PSU
JDK-8169954	11	JFileChooser/8021253: java.lang.RuntimeException: Default button is not pressed	PSU
JDK-8169953	11	JComboBox/8057893: ComboBoxEdited event is not fired! on Windows	PSU
JDK-8165828	11	[TEST_BUG] The reg case:javax/swing/plaf/metal/MetalIcons/MetalHiD PIIconsTest.java failed as No Metal Look and Feel	PSU
JDK-8163973	8	VM Anonymous classes should not call Class File Load Hooks	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8163086	11	java/awt/Window/TranslucentJAppletTest/TranslucentJAppletTest.java fails	PSU
JDK-8159904	11	[TEST_BUG] Failure on solaris of java/awt/Window/MultiWindowApp/MultiWindowAppTest.java	PSU
JDK-8159597	11	[TEST_BUG] closed/javax/swing/JPopupMenu/4760494/bug4760494.java leaves key pressed	PSU
JDK-8147051	8	StaxEntityResolverWrapper should create StaxXMLInputSource with a resolver indicator	PSU
JDK-8143021	11	[TEST_BUG] Test javax/swing/JColorChooser/Test6541987.java fails	PSU
JDK-8140472	8	java/net/ipv6tests/TcpTest.java failed intermittently with java.net.BindException: Address already in use: NET_Bind	PSU
JDK-8140241	17	(fc) Data transfer from FileChannel to itself causes hang in case of overlap	PSU
JDK-8137101	17, 11	[TEST_BUG] javax/swing/plaf/basic/BasicHTML/4251579/bug4251579.java failure due to timing	PSU
JDK-8136517	11	[macosx]Test java/awt/Focus/8073453/AWTFocusTransitionTest.java fails on MacOSX	PSU
JDK-8131745	11	java/lang/management/ThreadMXBean/AllThreadIds.java still fails intermittently	PSU
JDK-8129310	11	java/net/Socket/asyncClose/AsyncClose.java fails intermittently	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8081652	11	[TESTBUG] java/lang/management/ThreadMXBean/ThreadMXBeanStateTest.java timed out intermittently	PSU
JDK-8080569	11	java/lang/ProcessBuilder/DestroyTest.java fails with "RuntimeException: Process terminated prematurely"	PSU
JDK-8080287	8	The image of BufferedImage.TYPE_INT_ARGB and BufferedImage.TYPE_INT_ARGB_PRE is blank	PSU
JDK-8078219	11	Verify lack of @test tag in files in java/net test directory	PSU
JDK-8077590	8	windows_i586_6.2-product-c2-runThese8_Xcomp_vm failing after win compiler upgrade	PSU
JDK-8075909	11	[TEST_BUG] The regression-swing case failed as it does not have the 'Open' button when select 'subdir' folder with NimbusLAF	PSU
JDK-8066588	8	javax/management/remote/mandatory/connection/RMConnector_NPETest.java fails to compile	PSU
JDK-8049348	8	compiler/intrinsics/bmi/verifycode tests on lzcnt and tzcnt use incorrect assumption about REXB prefix usage	PSU
JDK-8047218	11	[TEST_BUG] java/awt/FullScreen/AltTabCrashTest/AltTabCrashTest.java fails with exception	PSU
JDK-8042199	8	The build of J2DBench via makefile is broken after the JDK-8005402	PSU
JDK-8041928	8	MouseEvent.getModifiersEx gives wrong result	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8039261	11	[TEST_BUG]: There is not a minimal security level in Java Preferences and the TestApplet.html is blocked.	PSU
JDK-8034084	11	nsk.nsk/jvmti/ThreadStart/threadstart003 Wrong number of thread end events	PSU
JDK-8015602	11	[macosx] Test javax/swing/SpringLayout/4726194/bug4726194.java fails on MacOSX	PSU
JDK-7179006	11	[macosx] Print-to-file doesn't work: printing to the default printer instead	PSU
JDK-7151826	11	[TEST_BUG] [macosx] The test javax/swing/JPopupMenu/4966112/bug4966112.java not for mac	PSU
JDK-7105119	11	[TEST_BUG] [macosx] In test UIDefaults.toString() must be called with the invokeLater()	PSU
JDK-6849922	11	java/awt/Choice/ChoiceKeyEventReaction/ChoiceKeyEventReaction.html fails	PSU
JDK-6801613	8	Cross-platform pageDialog and printDialog top margin entry broken	PSU
JDK-4819544	17	SwingSet2 JTable Demo throws NullPointerException	PSU

OpenJFX bug fixes

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

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8274929	17, 15, 13, 11, 8	Crash while reading specific clipboard content	CPU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8272546	17, 15, 13, 11, 8	Better TrueType font loading	CPU
JDK-8277133	17, 15, 13, 11	Dragboard contents retrieved all over again during a DND process on WebView	PSU
JDK-8276847	17, 15, 13, 11	JSEException: ReferenceError: Can't find variable: IntersectionObserver	PSU
JDK-8276490	17, 15, 13, 11	Incorrect path for duplicate x and y values, when path falls outside axis bound	PSU
JDK-8275723	17, 15, 13, 11	Crash on macOS 12 in GlassRunnable::dealloc	PSU
JDK-8275138	17, 15, 13, 11, 8	WebView: userAgent string is empty for first request	PSU
JDK-8274854	17, 15, 13, 11	Mnemonics for menu containing numeric text not working	PSU
JDK-8274022	17, 15, 13, 11	Additional Memory Leak in ControlAcceleratorSupport	PSU
JDK-8269538	8	StackOverflowError when pressing F10 within SpinnerSkin	PSU
JDK-8263807	8	Button types of a DialogPane are set twice, returns a wrong button	PSU
JDK-8261460	8	Incorrect CSS applied to ContextMenu on DialogPane	PSU
JDK-8242531	8	[macos] JavaFX OSXPlatform tries to load nonexistent libjfxmedia_qtkit	PSU
JDK-8208088	8	Memory Leak in ControlAcceleratorSupport	PSU
JDK-8178297	8	TableView scrolls slightly when adding new elements	PSU
JDK-8160597	17, 15, 13, 11	IllegalArgumentException when we initiate drag on Image	PSU

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
JDK-8089884	8	TextInputControls capturing function key events	PSU

Azul Zulu bug fixes

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

Issue ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-33119	11, 8	JBoss EAP 7.4 hangs with Zulu 8.60.0.20	CPU
ZULU-33098	15, 13	Update JFX to zulu17.0.1.0.101+101	CPU
ZULU-32922	8	Update JFX to zulu8u321-b01	CPU
ZULU-32548	15, 13, 11	Update JFX to zulu17.0.1.0.101+100	CPU
ZULU-32486	17, 15, 13, 11, 8, 7, 6	update copyright year in welcome.html	CPU
ZULU-32373	8	Update Legacy8uJSSE version to 1.1.4	CPU
ZULU-30891	8	Update JFX to zulu8u312-b03	CPU
ZULU-30731	17, 15, 13, 11	Update JFX to zulu17.0.1+102	CPU
ZULU-30729	8	Update JFX to zulu8u312-b02	CPU
ZULU-29897	8	JCK8 SSL tests fail on Solaris 11.4 with -XX:+UseLegacy8uJSSE	CPU
ZULU-33080	8	ZipFile.getCentralDirectory should ensure that ZipFile is still open	PSU
ZULU-32983	8	Update JFX to zulu8u322-b01	PSU
ZULU-32761	11, 8	NPE in network connection monitor though com.azul.tooling in UDP	PSU
ZULU-32724	11, 8	CRS properties should be set on VM start	PSU
ZULU-32628	17, 15, 13, 11	Update JFX to zulu17.0.2+100	PSU

Issue ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-32610	17	Internal Error in compileBroker.cpp	PSU
ZULU-32365	8	Failure in com/sun/jdi/StepTest.java - Bad method name/signature: com.azul.tooling.in.JarLoadEvent.go:()V	PSU
ZULU-32364	11	Failures in six various tests on all (and only) "non-CRS" platforms	PSU
ZULU-32363	11, 8	Failure in appcnds/SpecifySysLoaderProp.java and securityManager/ClassLoaderTest.java - IllegalStateException: getSystemClassLoader cannot be called during the system class loader instantiation	PSU
ZULU-32280	11, 8	Zulu should report jar loading events through com.azul.tooling mechanism	PSU
ZULU-32089	8	Update OpenJSSE & Legacy8uJSSE versions for Zulu emb	PSU
ZULU-32088	8	Update OpenJSSE version to 1.1.9	PSU
ZULU-32077	11, 8	com.azul.tooling proxy subsystem in JRE to simplify integration of new JRE-initiated events with CRS	PSU
ZULU-32048	8	Running Zulu 8 MIPS32 with -XX:+UseG1GC causes Segmentation fault	PSU
ZULU-31637	11	Re-enable jvmci on macos-aarch64 after JDK-8248238	PSU
ZULU-31596	8	Failure in four tests demo/jvmti/hprof/* - irrecoverable SI_KERNEL SIGSEGV	PSU
ZULU-31592	11	[aarch32] build failure after jdk-11.0.14+4	PSU
ZULU-31587	11	Backout OpenJSSE from Zulu 11	PSU
ZULU-31570	11	Backout early versions of the fix for JDK-8273026	PSU

Issue ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-31146	13	Failure in runtime/clinit/ClassInitBarrier.java - SIGSEGV (0xb) at pc=0x0000000000000000, pid=60179, tid=28675	PSU
ZULU-30856	8	CRS: Original class hashes are not sent to the stack for transformed classes	PSU
ZULU-30849	11	CRS: zulu11 hashes reported by JVM are incorrect: component detection isn't working	PSU
ZULU-30848	17	[Zulu 17 Arm32] Array sorting tests fail	PSU
ZULU-30728	17	[Zulu 17 Arm32] Assert crash in hotspot/cpu/arm/assembler_arm_32.cpp in fastdebug and SIGILL in release	PSU
ZULU-30727	17	Arithmetics seems to be broken in OpenJDK 17 Arm32 port	PSU
ZULU-30722	8	Update to gcc 7.3 for building Zulu 8 on Linux x86	PSU
ZULU-30644	17, 11, 8	Linux devkit with patched systemtap headers	PSU
ZULU-30547	17, 15, 13	Change to GCC 8.3.0 for building on Linux	PSU
ZULU-30533	11	[aarch32] Reenable detection of multiprocessor system	PSU
ZULU-30518	15, 13, 11, 8	Update VS2017 to 15.9.40 for building on Windows	PSU
ZULU-30513	17	Update VS2019 to 16.11.4 for building on Windows	PSU
ZULU-30130	17, 15, 13, 11, 8, 7, 6	Don't strip JVM symbols	PSU
ZULU-29744	8	fix compilation issues for gcc9.3	PSU

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