

Liberica JDK 26.0.2+13

Release Notes



Liberica JDK
26.0.2
July 21, 2026

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1. Version information

This document provides information about Liberica JDK 26.0.2 release. The full version string for this update release is 26.0.2+13. The version number is 26.

Liberica JDK 26 is distributed as `.apk`, `.rpm`, `.zip`, `.deb`, `.pkg`, and `.tar.gz` packages. Please select the most appropriate for your purposes.

2. What's New

This release contains the following updates and new features.

Notable Changes

This is the list of the notable issues fixed in this release.

Issue ID	
JDK-8347938	Summary: Add Support for the Latest ML-KEM and ML-DSA Private Key Encodings Description: The JDK now encodes ML-KEM and ML-DSA private keys in PKCS #8 format using the DER-encoded ASN.1 CHOICE formats defined in Section 6, 'Private Key Format' of RFC 9935 and Section 6, 'Private Key Format' of RFC 9881. Two new security properties, <code>jdk.mlkem.pkcs8.encoding</code> and <code>jdk.mldsa.pkcs8.encoding</code>, control the encoding used when generating new keys with a <code>KeyPairGenerator</code> or when translating keys with a <code>KeyFactory</code>. Valid values are <code>seed</code>, <code>expandedKey</code>, and <code>both</code> (case-insensitive). If a system property of the same name is also specified, it supersedes the security property value. All three formats are supported when decoding previously encoded private keys with a <code>KeyFactory</code>. The default encoding for newly generated ML-KEM and ML-DSA private keys is <code>seed</code>. Applications that require a particular private-key encoding can configure the relevant security property or equivalent system property.
JDK-8372351	Summary: Added WISEKey Global GB and GC Root CA Certificates Description: <code>wisekeyglobalrootgbca</code> and <code>wisekeyglobalrootgccca</code> root certificates have been added to the <code>cacerts</code> truststore.

Issue ID	
JDK-8381670	Summary: Revert the changes to <code>GZIPInputStream</code> related to <code>InputStream.available()</code> usage Description: Reverted the changes to <code>java.util.zip.GZIPInputStream</code> that were done in JDK-7036144 (CSR JDK-8327489). The implementation of <code>GZIPInputStream</code> is now reverted to using <code>InputStream.available()</code> for deciding whether or not to read past a GZIP stream trailer.
JDK-8382740	Summary: JFR Event <code>jdk.OldObjectSample</code> Disabled for Generational ZGC Description: The JFR event <code>jdk.OldObjectSample</code> is disabled when using generational ZGC. The combination results in unacceptable performance overhead because the implementation relies on weak handles that, in generational ZGC, are processed only in the old generation.
JDK-8385665	Summary: Address possible oversized errors in <code>Math.pow</code> Description: The FDLIBM 5.3 algorithm for <code>pow</code>, as uncorrected before JDK-8326547, for some inputs returned 600+ ulp errors rather than < 1 ulp errors as specified. In cases where <code>Math.pow</code> delegates to <code>StrictMath.pow</code>, it now uses the corrected algorithm even on platform versions where using the uncorrected original algorithm is specified.

Discontinued OS support

Note that Liberica JDK 26.0.2 is not available for and cannot be run on the following operating systems:

- Windows x86 (32-bit)
- macOS 10.x

IANA TZ Data version

This release of Liberica JDK 26.0.2 comes with the 2026b version of the in-tree copy of the [IANA timezone database](#). The following are the key features of this version.

Briefly

British Columbia moved to permanent -07 on 2026-03-09.

Some more overflow bugs have been fixed in zic.

Changes to future timestamps

British Columbia's 2026-03-08 spring forward was its last foreseeable clock change, as it moved to permanent -07 thereafter. (Thanks to Arthur David Olson.) Although the change to permanent -07 legally took place on 2026-03-09, temporarily model the change to occur on 2026-11-01 at 02:00 instead. This works around a limitation in CLDR v48.2 (2026-03-17). This temporary hack is planned to be removed after CLDR is fixed.

Changes to code

- zic no longer mishandles a last transition to a new time type.
- zic no longer overflows a buffer when generating a TZ string like "PST-167:59:58PDT-167:59:59,M11.5.6/-167:59:59,M12.5.6/-167:59:59", which can occur with adversarial input. (Thanks to Naveed Khan.)
- zic no longer generates a longer TZif file than necessary when an earlier time zone abbreviation is a suffix of a later one. As a nice side effect, zic no longer overflows a buffer when given a long series of abbreviations, each a suffix of the next. (Buffer overflow reported by Arthur Chan.)
- zic no longer overflows an int when processing input like 'Zone Ouch 2147483648:00:00 - LMT'. The int overflow can lead to buffer overflow in adversarial cases. (Thanks to Naveed Khan.)
- zic now checks for signals more often.

For more information, see [JDK-8383175](#).

3. Known Issues

This release does not contain any known issues.

4. Fixed CVEs

This is the list of the security issues fixed in this release. CVSS scores are provided using the CVSS version 3.1 scoring system.

CVE ID	CVSS score	Component	Module	Attack Vector	Complexity	Privileges	User Interaction	Scope	Confidentiality	Integrity	Availability
CVE-2026-41254	7.5	client-libs	2d	network	low	none	none	unchanged	none	none	high
CVE-2026-46917	5.3	security-libs	javax.net.ssl	network	low	none	none	unchanged	none	none	low
CVE-2026-46968	5.9	security-libs	javax.net.ssl	network	high	none	none	unchanged	none	high	none
CVE-2026-47010	3.7	client-libs	javax.imageio	network	high	none	none	unchanged	none	low	none
CVE-2026-47013	5.3	javafx	graphics	network	low	none	none	unchanged	none	none	low
CVE-2026-47021	5.3	client-libs	2d	network	low	none	none	unchanged	none	none	low
CVE-2026-47027	5.3	security-libs	java.security	network	low	none	none	unchanged	none	none	low
CVE-2026-47030	3.1	javafx	web	network	high	none	required	unchanged	none	low	none
CVE-2026-47034	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2026-47035	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2026-47059	5.9	client-libs	2d	network	high	none	none	unchanged	none	none	low
CVE-2026-47063	7.5	security-libs	java.security	network	low	none	none	unchanged	none	high	none
CVE-2026-60147	6.5	security-libs	java.security	network	low	none	none	unchanged	low	low	none
CVE-2026-60164	3.1	javafx	web	network	high	none	required	unchanged	low	none	none
CVE-2026-60165	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2026-60166	3.1	javafx	media	network	high	none	required	unchanged	low	none	none

5. Resolved Issues

JDK issues

This is the list of general JDK issues fixed in this release.

Issue ID	Summary
JDK-8068378	[TEST_BUG]The java/awt/Modal/PrintDialogsTest/PrintDialogsTest.java instruction need to update
JDK-8170896	TEST_BUG: java/rmi/server/Unreferenced/leaseCheckInterval/LeaseCheckInterval.java failed with unreferenced() not invoked after 20.0 seconds
JDK-8278102	containers/docker/TestJcmd.java failed with "RuntimeException: Could not find specified process"
JDK-8279196	Test: jdk/jfr/event/gc/stacktrace/TestG1OldAllocationPendingStackTrace.java timed out
JDK-8286258	[Accessibility,macOS,VoiceOver] VoiceOver reads the spinner value wrong and sometime partially
JDK-8297191	[macos] Printing a page range with starting page > 1 results in missing pages
JDK-8319326	GC: Make TestParallelRefProc use createTestJavaProcessBuilder

Issue ID	Summary
JDK-8323792	ThreadSnapshot::initialize can cause assert in Thread::check_for_dangling_thread_pointer (possibility of dangling Thread pointer)
JDK-8344345	test/hotspot/gtest/x86/x86-asmtest.py has trailing whitespaces
JDK-8346154	[XWayland] Some tests fail intermittently in the CI, but not locally
JDK-8347938	Add Support for the Latest ML-KEM and ML-DSA Private Key Encodings
JDK-8359433	The final modifier on Windows L&F internal UI classes prevents extending them in apps
JDK-8360160	ubuntu-22-04 machine is failing client tests
JDK-8364373	Transform Affine transformations
JDK-8366138	Parse::jump_switch_ranges() could cause stack overflow when compiling huge switch statement
JDK-8367463	Improved Arena allocations
JDK-8367994	test/jdk/sun/security/pkcs11/Signature/ tests pass when they should skip
JDK-8368041	Enhance TLS certificate handling
JDK-8368524	Tests are skipped and shown as passed in test/jdk/sun/security/pkcs11/Cipher/KeyWrap
JDK-8368977	Provide clear naming for AVX10 identifiers

Issue ID	Summary
JDK-8369561	sun/java2d/OpenGL/DrawBitmaskImage.java#id0: Incorrect color for first pixel (actual=ff000000)
JDK-8369950	TLS connection to IPv6 address fails with BCJSSE due to IllegalArgumentException
JDK-8370502	C2: segfault while adding node to IGVN worklist
JDK-8370995	Enhance ZipFile usage
JDK-8371420	Still sporadic failures of gc/TestAlwaysPreTouchBehavior.java#<gcname> on Linux after JDK-8359104
JDK-8371420	Still sporadic failures of gc/TestAlwaysPreTouchBehavior.java#<gcname> on Linux after JDK-8359104
JDK-8371503	RETAIN_IMAGE_AFTER_TEST do not work for some tests
JDK-8372351	Add 2 WISEKey roots
JDK-8372377	Test java/io/File/GetXSpace.java failed: The system cannot find the path specified
JDK-8372661	Add a null-safe static factory method to "jdk.test.lib.net.SimpleSSLContext"
JDK-8373021	aarch64: MacroAssembler::arrays_equals reads out of bounds
JDK-8373101	JdkClient and JdkServer test classes ignore namedGroups field
JDK-8373120	Virtual thread stuck in BLOCKED state

Issue ID	Summary
JDK-8373239	Test java/awt/print/PrinterJob/PageRanges.java fails with incorrect selection of printed pages
JDK-8373275	Improve DTLS handshaking
JDK-8373290	Update FreeType to 2.14.1
JDK-8373362	Http3TestServer should not log an exception stack trace when it is stopping normally
JDK-8373537	Migrate "test/jdk/com/sun/net/httpserver/" to null-safe "SimpleSSLContext" methods
JDK-8373623	Refactor Serialization tests for Records to JUnit
JDK-8373650	Test "javax/swing/JMenuItem/6458123/ManualBug6458123.java" fails because the check icons are not aligned properly as expected
JDK-8373690	Unexpected Keystore message using jdk.crypto.disabledAlgorithms
JDK-8373704	Improve "SocketException: Protocol family unavailable" message
JDK-8373716	Refactor further java/util tests from TestNG to JUnit
JDK-8373718	jdk/internal/misc/VM/RuntimeArguments.java test fails in Virtual threads mode
JDK-8373796	Refactor java/net/httpclient/ThrowingPublishers*.java tests to use JUnit5
JDK-8373808	Refactor java/net/httpclient qpack and hpack tests to use JUnit
JDK-8373829	Refactor test/jdk/java/time/tck tests to use JUnit over TestNG

Issue ID	Summary
JDK-8373830	Refactor test/jdk/java/time/test tests to use JUnit over TestNG
JDK-8373847	Test javax/swing/JMenuItem/MenuItemTest/bug6197830.java failed because The test case automatically fails when clicking any items in the Nothing menu in all four windows (Left-to-right)-Menu Item Test and (Right-to-left)-Menu Item Test
JDK-8373866	Refactor java/net/httpclient/ThrowingSubscribers*.java tests to use JUnit5
JDK-8373869	Refactor java/net/httpclient/ThrowingPushPromises*.java tests to use JUnit5
JDK-8373893	Refactor networking http server tests to use JUnit
JDK-8373913	Refactor serialization tests to use JUnit
JDK-8373928	4 Dangling pointer defect groups in java.c
JDK-8373931	Test javax/sound/sampled/Clip/AutoCloseTimeCheck.java timed out
JDK-8373944	ObjectMonitor::ExitOnSuspend can call java_lang_VirtualThread::set_onWaitingList() while in safepoint
JDK-8374043	C2: assert(_base >= VectorMask && _base <= VectorZ) failed: Not a Vector
JDK-8374051	Incorrect parameterized testing of exceptions in AbstractDateTimeTest.java
JDK-8374056	RISC-V: Fix argument passing for the RiscvFlushIcache::flush
JDK-8374058	Enhance JPEG handling

Issue ID	Summary
JDK-8374178	Missing include in systemDictionary.cpp after JDK-8365526
JDK-8374304	MultiResolutionSplashTest.java fails in CI: "Image with wrong resolution is used for splash screen!"
JDK-8374322	TestMemoryWithSubgroups.java fails Permission denied
JDK-8374343	Fix SIGSEGV when lib/modules is unreadable
JDK-8374371	Failed assertion in G1HeapRegion gtest
JDK-8374506	Incorrect positioning of arrow icon in parent JMenu in Windows L&F
JDK-8374557	Enhance TLS connection handling
JDK-8374711	Hotspot runtime/CommandLine/OptionsValidation/TestOptionsWithRanges fails without printing the option name
JDK-8374727	Audio configuration Platform class - use nio for getting endianness of the underlying platform
JDK-8374744	Enable dumping of APX EGPRs (R16â€“R31) in JVM fatal error logs
JDK-8374769	PPC: MASM::pop_cont_fastpath() should reset _cont_fastpath if SP == _cont_fastpath
JDK-8374888	Implement internal test cache to help UserIterCount test performance
JDK-8374903	C2 VectorAPI: assert(vbox→as_Phi()→region() == vect→as_Phi()→region()) failed
JDK-8374998	Failing os::write - remove bad file

Issue ID	Summary
JDK-8375010	C2 VectorAPI: assert(vbox→is_CheckCastPP()) failed: should be expanded
JDK-8375057	Update HarfBuzz to 12.3.2
JDK-8375065	Update LCMS to 2.18
JDK-8375231	Refactor util/ServiceLoader tests to use JUnit
JDK-8375232	Refactor util/StringJoiner tests to use JUnit
JDK-8375233	Refactor util/Vector tests to use JUnit
JDK-8375294	(fs) Files.copy can fail with EOPNOTSUPP when copy_file_range not supported
JDK-8375311	Some builds are missing debug helpers
JDK-8375598	VM crashes with "assert((labs(val) & 0xFFFFFFFF00000000) == 0 dest == (address)-1) failed: must be 32bit offset or -1" when using too high value for NonNMethodCodeHeapSize
JDK-8375742	Test java/lang/invoke/MethodHandleProxies/Driver.java does not run Unnamed.java
JDK-8375999	com/sun/jndi/ldap/LdapPoolTimeoutTest.java fails sporadically on Windows
JDK-8376031	HttpsURLConnection.getServerCertificates() throws "java.lang.IllegalStateException: connection not yet open" for the HEAD method
JDK-8376104	C2 crashes in PhiNode::Ideal(PhaseGVN*, bool) accessing NULL pointer

Issue ID	Summary
JDK-8376151	Test javax/swing/JFileChooser/4966171/bug4966171.java is failing with OOME
JDK-8376152	Test javax/sound/sampled/Clip/bug5070081.java timed out then completed
JDK-8376185	NoSuchFieldError thrown after a record with type annotation retransformed
JDK-8376233	Clean up code in Desktop native peer
JDK-8376308	java/net/httpclient/CancelRequestTest.java fails intermittently with "Expected CancellationException not received"
JDK-8376402	Dependencies::print_statistics() and AbstractClassHierarchyWalker::print_statistics() are not called from PRODUCT code
JDK-8376479	Http3 test server thread deadlock in ThrowingPublishersInRequest
JDK-8376485	Update the release version and date for OpenJDK 26u
JDK-8376684	Compile OpenJDK in headless mode without required X11 libraries
JDK-8376688	Gtest os.attempt_reserve_memory_between_small_range_fill_hole_vm fails on AIX 7.3
JDK-8376889	Enhance JfrRecorder::on_create_vm_3() assert output
JDK-8376956	Add JVMTI phase entering/setting to hserr event log
JDK-8377158	Enhance XBM image support

Issue ID	Summary
JDK-8377167	javax/imageio/ReadAbortTest.java throw NPE when x11 unavailable
JDK-8377334	Test framework used by langtools regression tests can produce false positives
JDK-8377347	jdk/jfr/event/gc/detailed/TestZAllocationStallEvent.java intermittent OOME
JDK-8377461	Add ZipFile test for incorrect number of entries reported in ENDTOT
JDK-8377498	Improve HttpServer handling
JDK-8377509	Add licenses for gcc 14.2.0
JDK-8377512	AOT cache creation fails with invalid native pointer
JDK-8377526	Update Libpng to 1.6.55
JDK-8377534	Test java/awt/print/PrinterJob/PrintNullString.java fails with FAILURE: No IAE for empty iterator, int
JDK-8377602	Create automated test for PageRange
JDK-8377727	Ghost caret and focus appear in non-editable text fields
JDK-8377777	Improve logging when rejecting assets from the AOT archive
JDK-8377833	Enhance Jar file processing
JDK-8377898	Hotspot build on AIX with unused-functions warning reports some unused functions
JDK-8377905	gcc.md included with every build

Issue ID	Summary
JDK-8377910	Minor cleanup of java/io/FileDescriptor/Sharing.java
JDK-8377932	AOT cache is not rejected when JAR file has changed
JDK-8377944	LowMemoryTest2.java#id1 intermittent fails OOME: Metaspace
JDK-8377949	TestZRelocationSetEvent.java intermittent fails OOME
JDK-8378113	Add sun/java2d/OpenGL/ScaleParamsOOB.java to the ProblemList.txt file
JDK-8378201	[OGL] glXMakeContextCurrent() drops the buffers of the unbound drawable
JDK-8378218	MSYS2 reports cygwin triplet causing bash configure failure
JDK-8378353	[PPC64] StringCoding.countPositives causes errors when the length is not a proper 32 bit int
JDK-8378417	Printing All pages results in NPE for 1.1 PrintJob
JDK-8378561	Mark gc/shenandoah/compiler/TestLinkToNativeRBP.java as /native
JDK-8378623	Use unique font names in FormatCharAdvanceTest
JDK-8378631	Update Zlib Data Compression Library to Version 1.3.2
JDK-8378687	Improve delegation of HttpURLConnection
JDK-8378713	C2: performance regression due to missing constant folding for Math.pow()
JDK-8378727	[macOS] Missing dispatch_release for semaphores in CDesktopPeer

Issue ID	Summary
JDK-8378764	fileStream::fileSize() fails for >2GB files on Windows
JDK-8378823	AIX build fails after zlib updated by JDK-8378631
JDK-8378836	Enable linktime-gc by default on Linux ppc64le
JDK-8378871	CPU feature flags are not properly set in vm_version_windows_aarch64.cpp
JDK-8378878	Refactor java/nio/channels/AsynchronousSocketChannel test to use JUnit
JDK-8379035	(tz) Update Timezone Data to 2026a
JDK-8379158	Update FreeType to 2.14.2
JDK-8379202	Support linktime-gc on Linux with clang
JDK-8379256	Update GIFlib to 6.1.1
JDK-8379416	AIX build fails if system (not GNU) date tool is in PATH
JDK-8379425	Windows and macOS should not allow unsupported headless-only build
JDK-8379457	Test EATests.java#id0 ERROR: monitor list errors: error_cnt=1
JDK-8379499	[AIX] headless-only build of libjawt.so fails
JDK-8379516	Adjust JVM debug helper exports
JDK-8379952	Revert JDK-8365711: Restore protected visibility of menuBarHeight and hotTrackingOn

Issue ID	Summary
JDK-8379967	(process) Improve ProcessBuilder error reporting
JDK-8380011	Path-to-gcroots search should not trigger stack overflows
JDK-8380078	Update GIFlib to 6.1.2
JDK-8380222	Refactor test/jdk/java/lang/Character TestNG tests to JUnit
JDK-8380409	JVM crashes when -XX:AOTMode=create uses app.aotconf generated with JVMTI agent
JDK-8380474	Crash SEGV in ThreadIdTable::lazy_initialize after JDK-8323792
JDK-8380565	PPC64: deoptimization stub should save vector registers
JDK-8380663	Update jcmd man page to include AOT.end_recording diagnostic command
JDK-8380672	Improve certification checking
JDK-8380947	Add pull request template
JDK-8380959	Update Libpng to 1.6.56
JDK-8381039	Enhance AWT ImagingLib
JDK-8381049	Enhance Jar handling
JDK-8381205	[GHA] Upgrade Node.js 20 to 24
JDK-8381315	compiler/vectorapi/TestVectorReallocation.java fails with -XX:UseAVX=1 after JDK-8380565
JDK-8381519	Enhance Der Value Handling

Issue ID	Summary
JDK-8381596	Adjust checks which use supports_ht() on x86 for hybrid CPUs
JDK-8381670	Revert the changes to GZIPInputStream related to InputStream.available() usage
JDK-8381745	Ensure Modal/FileDialog tests explicitly reference Asserts class
JDK-8381796	Enhance Certificate parsing
JDK-8381937	Make exceptions in Java_sun_security_mscapi_CKeyPairGenerator generateCKeyPair more specific
JDK-8382020	Time Zone Abbreviation Not Localized for Non-English Locales
JDK-8382047	Update Libpng to 1.6.57
JDK-8382204	Revert EA option for build promotion
JDK-8382242	JFR: Metadata reconstruction invalidates ConstantMap for java.lang.String
JDK-8382516	Change milestone to fcs for all releases
JDK-8382740	JFR: Disable jdk.OldObjectSample event for generational ZGC
JDK-8383175	(tz) Update Timezone Data to 2026b
JDK-8383354	Update LCMS to 2.19.1
JDK-8383473	Follow on from tzdata2026b time change to include temporary hack BC time change
JDK-8383867	File.getCanonicalPath drops backslash from UNC path with directory junctions

Issue ID	Summary
JDK-8385076	Follow-on fix for Improve certification checking
JDK-8385665	Address possible oversized errors in Math.pow

JFX issues

This is the list of JFX issues fixed in this release.

Issue ID	Summary
JDK-8373527	Improve Graphics playback
JDK-8375084	Update libxslt to 1.1.45
JDK-8378226	Animated GIFs do not animate after WebKit 620.1 update
JDK-8378277	Improve Editor selection
JDK-8378383	Create release notes for JavaFX 26
JDK-8378510	Provide media support for libavcodec version 62
JDK-8379206	4 Null pointer dereference defect groups in 4 glib files
JDK-8379207	Improve audio conversion
JDK-8379209	Uninitialised variable in pathApplierFunctionFast of coretext.c
JDK-8379211	Uninitialised memory in Java_com_sun_javafx_font_freetype_OSFreeType_FT_1Outline_1De compose

Issue ID	Summary
JDK-8379257	Update JPEG Image Decoding Software to 10
JDK-8379336	Update libxml2 to 2.15.2
JDK-8379440	Change JavaFX release version to 26.0.2 in jfx26u
JDK-8379823	Doc files should not have a + in the filename
JDK-8380557	Additional WebKit 623.1 fixes from WebKitGTK 2.50.6
JDK-8380557	Additional WebKit 623.1 fixes from WebKitGTK 2.50.6
JDK-8381447	Remove G_DISABLE_CHECKS compiler flag on Windows to align GLib/GStreamer compilation with macOS/Linux
JDK-8381517	GlassViewDelegate::convertNSStringToJString can return uninitialized value
JDK-8381624	Create release notes for JavaFX 26.0.1
JDK-8381982	Add pull request template
JDK-8383092	Enhance WebView Resource Loading
JDK-8383129	Better Handling of MP4 Files
JDK-8383143	Enhance Playlist Loading

6. Updates to Third Party Libraries

This is the list of changes in the third party libraries.

Library	Full name	New Version	Module	JBS number
FreeType	FreeType	2.14.2	java.desktop	JDK-8379158
GIFFlib	GIFFlib	6.1.2	java.desktop	JDK-8380078
HarfBuzz	HarfBuzz	12.3.2	java.desktop	JDK-8375057
LCMS	LittleCMS	2.19.1	java.desktop	JDK-8383354
libjpeg	JPEG Image Decoding Software	10	javafx.web	JDK-8379257
Libpng	Libpng	1.6.57	java.awt	JDK-8382047
libxml2	libxml2	2.15.2	javafx.web	JDK-8379336
libxslt	libxslt	1.1.45	javafx.web	JDK-8375084

7. Upgrading to the New Version

To keep your Liberica JDK up-to-date and secure, always upgrade to the newest available version once it is released. To upgrade, install the new version over the previous one. For the installation instructions, see [Liberica JDK Installation Guide](#).



Liberica JDK 26.0.2+13

Release Notes

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