

Liberica JDK 25.0.4+9

Release Notes



Liberica JDK
25.0.4
July 21, 2026

be//soft

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1. Version information

This document provides information about Liberica JDK 25.0.4 release. The full version string for this update release is 25.0.4+9. The version number is 25.

Liberica JDK 25 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.

Issue ID	
JDK-8365057	Summary: Thread Dumps Generated by HotSpotDiagnosticMXBean.dumpThreads and jcmd Thread.dump_to_file Updated to Include Owner of the Park Blocker Description: The thread dump generated by the [com.sun.management.HotSpotDiagnosticMXBean.dumpThreads] API, and the diagnostic command <code>jcmd <pid> Thread.dump_to_file</code>, now includes information about park blocker owner for threads that are parked on [java.util.concurrent.locks.AbstractOwnableSynchronizer] objects.
JDK-8369736	Summary: New Management Interface for AOT Cache Creation Description: A new management interface, <code>jdk.management.HotSpotAOTCacheMXBean</code>, has been added to the <code>jdk.management</code> module to provide the operation <code>endRecording()</code>. This operation ends the AOT recording and creates the AOT cache and/or configuration file. As with any MXBean, the operation can be invoked either from within the application or from an external tool such as [jconsole].
JDK-8372351	Summary: Added WiSeKey Global GB and GC Root CA Certificates Description: <code>wisekeyglobalrootgbca</code> and <code>wisekeyglobalrootgccaroot</code> certificates have been added to the <code>cacerts</code> truststore.
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.

Discontinued OS support

Note that Liberica JDK 25.0.4 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 25.0.4 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-7184899	Test sun/java2d/X11SurfaceData/SharedMemoryPixmapsTest/SharedMemoryPixmapsTest.sh fail
JDK-8015444	java/awt/Focus/KeyStrokeTest.java sometimes fails
JDK-8064922	[macos] Test javax/swing/JTabbedPane/4624207/bug4624207.java fails
JDK-8068293	[TEST_BUG] Test closed/com/sun/java/swing/plaf/motif/InternalFrame/4150591/bug4150591.java fails with GTKLookAndFeel
JDK-8068310	[TEST_BUG] Test javax/swing/JColorChooser/Test4234761.java fails with GTKL&F
JDK-8144124	[macosx] The tabs can't be aligned when we pressing the key of 'R','B','L','C' or 'T'.
JDK-8203004	UnixMultiResolutionSplashTest.java fails on Ubuntu16.04
JDK-8213530	Test java/awt/Modal/ToFront/DialogToFrontModeless1Test.java fails on Linux

Issue ID	Summary
JDK-8221451	PIT: sun/java2d/X11SurfaceData/SharedMemoryPixmapsTest/SharedMemoryPixmapsTest.sh fails
JDK-8225787	java/awt/Window/GetScreenLocation/GetScreenLocationTest.java fails on Ubuntu
JDK-8241066	Shenandoah: fix or cleanup SH::do_full_collection
JDK-8261743	Shenandoah: enable String deduplication with compact heuristics
JDK-8264851	Shenandoah: Rework control loop mechanics to use timed waits
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-8297191	[macos] Printing a page range with starting page > 1 results in missing pages
JDK-8298823	[macos] java/awt/Mouse/EnterExitEvents/DragWindowTest.java continues to fail with "No MouseReleased event on label!"
JDK-8319326	GC: Make TestParallelRefProc use createTestJavaProcessBuilder
JDK-8319540	GC: Make TestSelectDefaultGC use createTestJavaProcessBuilder
JDK-8321303	Intermittent open/test/jdk/java/awt/KeyboardFocusmanager/ConsumeNextMnemonicKeyTypedTest/ConsumeNextMnemonicKeyTypedTest.java failure on Linux

Issue ID	Summary
JDK-8321687	Test vmTestbase/nsk/jvmti/scenarios/contention/TC03/tc03t002/TestDescription.java failed: JVMTI_ERROR_THREAD_NOT_ALIVE
JDK-8323792	ThreadSnapshot::initialize can cause assert in Thread::check_for_dangling_thread_pointer (possibility of dangling Thread pointer)
JDK-8325482	Test that distinct seeds produce distinct traces for compiler stress flags
JDK-8335355	Shenandoah: Fix race condition in gc/shenandoah/mxbeans/TestPauseNotifications.java
JDK-8339526	C2: store incorrectly removed for clone() transformed to series of loads/stores
JDK-8340182	Java HttpClient does not follow default retry limit of 3 retries
JDK-8341735	Rewrite the build/AbsPathsInImage.java test to not load the entire file at once
JDK-8344345	test/hotspot/gtest/x86/x86-asmtest.py has trailing whitespaces
JDK-8345631	TestRegionSamplingLogging.java#generational-rotation intermittent fails
JDK-8347167	Reduce allocation in com.sun.net.httpserver.Headers::normalize
JDK-8347938	Add Support for the Latest ML-KEM and ML-DSA Private Key Encodings
JDK-8351010	Test java/io/File/GetXSpace.java failed: / usable space 56380809216 > free space 14912244940

Issue ID	Summary
JDK-8352914	Shenandoah: Change definition of ShenandoahSharedValue to int32_t to leverage platform atomics
JDK-8353115	GenShen: mixed evacuation candidate regions need accurate live_data
JDK-8354650	[PPC64] Try to reduce register definitions
JDK-8355339	Test java/io/File/GetCanonicalPath.java failed: The specified network name is no longer available
JDK-8357086	os::xxx functions returning memory size should return size_t
JDK-8358600	Template-Framework Library: Template for TestFramework test class
JDK-8358772	Template-Framework Library: Primitive Types
JDK-8359083	Test jdkCheckHtml.java should report SkippedException rather than report fails when miss tidy
JDK-8359223	HttpClient: Remove leftovers from the SecurityManager cleanup
JDK-8359412	Template-Framework Library: Operations and Expressions
JDK-8359433	The final modifier on Windows L&F internal UI classes prevents extending them in apps
JDK-8361339	Test gc/shenandoah/TestLargeObjectAlignment.java#generational fails on macOS aarch64 with OOM: Java heap space
JDK-8361606	ConsumeNextMnemonicKeyTypedTest.java fails on Windows: character typed with VK_A: a

Issue ID	Summary
JDK-8361699	C2: assert(can_reduce_phi($n \rightarrow \text{as_Phi}()$)) failed: Sanity: previous reducible Phi is no longer reducible before SUT
JDK-8361726	Shenandoah: More detailed evacuation instrumentation
JDK-8362428	Update IANA Language Subtag Registry to Version 2025-08-25
JDK-8363943	ARM32: Represent Registers as values
JDK-8363949	Incorrect jtreg header in MonitorWithDeadObjectTest.java
JDK-8363986	Heap region in CDS archive is not at deterministic address
JDK-8364315	Remove unused xml files from test/jaxp/javax/xml/jaxp/functional/javax/xml/transform/xmlfiles
JDK-8364657	Crash for SecureRandom.generateSeed(0) on Windows x86-64
JDK-8364927	Add @requires annotation to TestReclaimStringsLeaksMemory.java
JDK-8365057	Add support for java.util.concurrent lock information to Thread.dump_to_file
JDK-8365379	SU3.applyInsets may produce wrong results
JDK-8365423	[macos26] java/awt/MenuBar/8007006/bug8007006.java fails on macOS 26
JDK-8365424	[macos26] java/awt/Frame/DisposeTest.java fails on macOS 26
JDK-8365623	test/jdk/sun/security/pkcs11/tls/ tests skipped without skip exception
JDK-8365625	Can't change accelerator colors in Windows L&F

Issue ID	Summary
JDK-8365792	GenShen: assertion "Generations aren't reconciled"
JDK-8366692	Several gc/shenandoah tests timed out
JDK-8366695	Test sun/jvmsstat/monitor/MonitoredVm/MonitorVmStartTerminate.java timed out
JDK-8366852	java/awt/Choice/ChoiceMouseWheelTest/ChoiceMouseWheelTest.j ava test is failing
JDK-8367096	jdk/open/test/jdk/sun/security/pkcs11/ rsa, ec, config, secmod and sslecc tests are skipping but showing as pass
JDK-8367450	Shenandoah: Log the composition of the collection set
JDK-8367451	GenShen: Remove the option to compute age census during evacuation
JDK-8367473	Shenandoah: Make the detailed evacuation metrics a runtime diagnostic option
JDK-8367485	os::physical_memory is broken in 32-bit JVMs when running on 64- bit OSes
JDK-8367531	Template Framework: use scopes and tokens instead of misbehaving immediate-return-queries
JDK-8367646	[GenShen] Control thread may overwrite gc cancellation cause set by mutator
JDK-8367708	GenShen: Reduce total evacuation burden
JDK-8367709	GenShen: Dirty cards for objects that get promoted by safepoint that intervenes between allocation and stores

Issue ID	Summary
JDK-8367722	[GenShen] ShenandoahEvacuationStats is always empty
JDK-8367949	JFR: MethodTrace double-counts methods that catch their own exceptions
JDK-8368001	java/text/Format/NumberFormat/NumberRoundTrip.java timed out
JDK-8368015	Shenandoah: fix error in computation of average allocation rate
JDK-8368041	Enhance TLS certificate handling
JDK-8368159	Significant performance overhead when started with jdwp agent and unattached debugger
JDK-8368181	ProblemList java/awt/Dialog/ModalExcludedTest/ModalExcludedTest.java
JDK-8368307	Shenandoah: get_next_bit_impl should special case weak and strong mark bits
JDK-8368499	GenShen: Do not collect age census during evac when adaptive tenuring is disabled
JDK-8368501	Shenandoah: GC progress evaluation does not use generation
JDK-8368524	Tests are skipped and shown as passed in test/jdk/sun/security/pkcs11/Cipher/KeyWrap
JDK-8368681	Shenandoah: Add documentation comments for ShenandoahAllocationRate
JDK-8369128	ProblemList jdk/jfr/event/profiling/TestCPUTimeSampleQueueAutoSizes.java in Xcomp configs

Issue ID	Summary
JDK-8369132	Disable vmTestbase/gc/vector/CircularListLow and LinearListLow with SerialGC
JDK-8369133	Disable gc/g1/TestShrinkAuxiliaryDataRunner.java with UseLargePages option
JDK-8369251	Opensource few tests
JDK-8369561	sun/java2d/OpenGL/DrawBitmaskImage.java#id0: Incorrect color for first pixel (actual=ff000000)
JDK-8369683	Exclude runtime/Monitor/MonitorWithDeadObjectTest.java#DumpThreadsBeforeDetach on Alpine Linux debug
JDK-8369736	Add management interface for AOT cache creation
JDK-8369817	[TESTBUG] EmptyPath::toString is ignored
JDK-8369912	[TESTBUG] testlibrary_tests/template_framework/examples/TestExpressions.java fails with ArithmeticException: / by zero - forgot to respect Expression.info
JDK-8369950	TLS connection to IPv6 address fails with BCJSSE due to IllegalArgumentException
JDK-8370370	Add still more cases to WorstCaseTests
JDK-8370489	Some compiler tests miss the @key randomness
JDK-8370502	C2: segfault while adding node to IGVN worklist
JDK-8370521	GenShen: Various code cleanup related to promotion

Issue ID	Summary
JDK-8370939	C2: SIGSEGV in SafePointNode::verify_input when processing MH call from Compile::process_late_inline_calls_no_inline()
JDK-8371284	GenShen: Avoid unnecessary card marking
JDK-8371381	[Shenandoah] Setting ergo flags should use FLAG_SET_ERGO
JDK-8371503	RETAIN_IMAGE_AFTER_TEST do not work for some tests
JDK-8371792	Refactor barrier loop tests out of TestIfMinMax
JDK-8371893	[macOS] use dead_strip linker option to reduce binary size
JDK-8372272	Hotspot shared lib loading - add load attempts to Events::log
JDK-8372351	Add 2 WISEKey roots
JDK-8372380	Make hs_err reporting more robust for unattached threads
JDK-8372513	Shenandoah: ShenandoahMaxRegionSize can produce an unaligned heap alignment
JDK-8372851	Modify java/io/File/GetXSpace.java to print path on failure of native call
JDK-8372861	Genshen: Override parallel_region_stride of ShenandoahResetBitmapClosure to a reasonable value for better parallelism
JDK-8373039	Remove Incorrect Asserts in shenandoahScanRemembered
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-8373515	Migrate "test/jdk/java/net/httpclient/" to null-safe "SimpleSSLContext" methods
JDK-8373579	Problem list compiler/runtime/Test7196199.java
JDK-8373650	Test "javax/swing/JMenuItem/6458123/ManualBug6458123.java" fails because the check icons are not aligned properly as expected
JDK-8373676	Test javax/net/ssl/HttpsURLConnection/SubjectAltNameIP.java fails on a machine without IPV6
JDK-8373690	Unexpected Keystore message using jdk.crypto.disabledAlgorithms
JDK-8373714	Shenandoah: Register heuristic penalties following a degenerated GC
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-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

Issue ID	Summary
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-8374001	sun/security/ skip without Exceptions
JDK-8374058	Enhance JPEG handling
JDK-8374168	Resolve disabled warnings in JDWP agent
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-8374449	Shenandoah: Leaf locks used by Shenandoah need lower ranks
JDK-8374506	Incorrect positioning of arrow icon in parent JMenu in Windows L&F
JDK-8374712	AOTMappedHeapWriter::relocate_field_in_buffer should use CompressedOops::narrow_oop_cast
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

Issue ID	Summary
JDK-8374888	Implement internal test cache to help UserIterCount test performance
JDK-8374998	Failing os::write - remove bad file
JDK-8375065	Update LCMS to 2.18
JDK-8375177	Gtest os_linux.decoder_get_source_info_valid_vm fails with -ffunction-sections
JDK-8375294	(fs) Files.copy can fail with EOPNOTSUPP when copy_file_range not supported
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
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-8376287	Crashes when using -XX:ObjArrayMarkingStride=0

Issue ID	Summary
JDK-8376402	Dependencies::print_statistics() and AbstractClassHierarchyWalker::print_statistics() are not called from PRODUCT code
JDK-8376684	Compile OpenJDK in headless mode without required X11 libraries
JDK-8376956	Add JVMTI phase entering/setting to hserr event log
JDK-8376969	Shenandoah: GC state getters should be inlineable
JDK-8376970	Shenandoah: Verifier should do basic verification before touching oops
JDK-8377158	Enhance XBM image support
JDK-8377167	javax/imageio/ReadAbortTest.java throw NPE when x11 unavailable
JDK-8377498	Improve HttpServer handling
JDK-8377512	AOT cache creation fails with invalid native pointer
JDK-8377602	Create automated test for PageRange
JDK-8377727	Ghost caret and focus appear in non-editable text fields
JDK-8377833	Enhance Jar file processing
JDK-8377907	(process) Race in ProcessBuilder can cause JVM hangs
JDK-8377910	Minor cleanup of java/io/FileDescriptor/Sharing.java
JDK-8377932	AOT cache is not rejected when JAR file has changed

Issue ID	Summary
JDK-8377944	LowMemoryTest2.java#id1 intermittent fails OOME: Metaspace
JDK-8377949	TestZRelocationSetEvent.java intermittent fails OOME
JDK-8378083	Mark shenandoah/generational/TestOldGrowthTriggers.java as flagless
JDK-8378201	[OGL] glXMakeContextCurrent() drops the buffers of the unbound drawable
JDK-8378417	Printing All pages results in NPE for 1.1 PrintJob
JDK-8378561	Mark gc/shenandoah/compiler/TestLinkToNativeRBP.java as /native
JDK-8378687	Improve delegation of HttpURLConnection
JDK-8378727	[macOS] Missing dispatch_release for semaphores in CDesktopPeer
JDK-8378746	ZGC: jdk/jfr/event/gc/detailed/TestZRelocationSetGroupEvent.java intermittent OOME
JDK-8378764	fileStream::fileSize() fails for >2GB files on Windows
JDK-8378774	Bump update version for OpenJDK: jdk-25.0.4
JDK-8378810	Enable missing FFM test via jtreg requires for RISC-V
JDK-8378836	Enable linktime-gc by default on Linux ppc64le
JDK-8378878	Refactor java/nio/channels/AsynchronousSocketChannel test to use JUnit
JDK-8378888	jdk/incubator/vector/Float16OperationsBenchmark.java uses wrong package name

Issue ID	Summary
JDK-8379021	Shenandoah: Speedup ShenandoahSimpleBitMapTest
JDK-8379202	Support linktime-gc on Linux with clang
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-8379464	Enable missing stack walking test via jtreg requires for RISC-V
JDK-8379499	[AIX] headless-only build of libjawt.so fails
JDK-8379515	draft-ietf-lamps-kyber-certificates is now RFC 9935
JDK-8380011	Path-to-gcroots search should not trigger stack overflows
JDK-8380041	PPC: remove POWER6 remnants
JDK-8380222	Refactor test/jdk/java/lang/Character TestNG tests to JUnit
JDK-8380316	Test runtime/os/AvailableProcessors.java fails Invalid argument
JDK-8380409	JVM crashes when -XX:AOTMode=create uses app.aotconf generated with JVMTI agent
JDK-8380428	ProblemList containers/docker/TestJcmdWithSideCar.java on linux-all
JDK-8380431	Shenandoah: Concurrent modification of stack-chunk objects during evacuation

Issue ID	Summary
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-8380846	GenShen: Remove the experimental option to disable adaptive tenuring
JDK-8380947	Add pull request template
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-8381382	Shenandoah: assert(capacity > 0) failed: free regions must have allocation capacity
JDK-8381519	Enhance Der Value Handling
JDK-8381796	Enhance Certificate parsing
JDK-8381871	GenShen: ShenandoahGCHeuristics flag not reset after ignoring non-adaptive value
JDK-8381935	Improve numChunks range in the PPC64 CallAranger

Issue ID	Summary
JDK-8381937	Make exceptions in <code>Java_sun_security_mscapi_CKeyPairGenerator.generateCKeypair</code> more specific
JDK-8382018	<code>test/jdk/java/nio/file/spi/SetDefaultProvider.java</code> leaves a directory in <code>/tmp</code>
JDK-8382020	Time Zone Abbreviation Not Localized for Non-English Locales
JDK-8382035	[ubsan] Under UBSAN builds, disable tests that rely on simulated JVM crashes
JDK-8382047	Update Libpng to 1.6.57
JDK-8382090	Remove <code>.rej</code> and <code>.orig</code> from <code>.gitignore</code>
JDK-8382242	JFR: Metadata reconstruction invalidates <code>ConstantMap</code> for <code>java.lang.String</code>
JDK-8382295	Shenandoah: wrong denominator in full gc summary
JDK-8382395	Disable stringop-overflow in <code>shenandoahGenerationalHeap.cpp</code>
JDK-8382419	Add missed <code>@key</code> randomness after JDK-8370489
JDK-8382522	Disable stringop-overflow in <code>safepointMechanism.cpp</code>
JDK-8382740	JFR: Disable <code>jdk.OldObjectSample</code> event for generational ZGC
JDK-8382878	RISC-V: Missing <code>InlineSkippedInstructionsCounter</code> in ZGC barriers stubs
JDK-8382932	[25u] Test <code>java/lang/instrument/RetransformRecordTypeAnn/TestRetransformRecord.java</code> fails with compilation error

Issue ID	Summary
JDK-8383161	[PPC64] MachCallDynamicJavaNode::ret_addr_offset() needs adaptation for COH
JDK-8383175	(tz) Update Timezone Data to 2026b
JDK-8383183	Shenandoah: Mangle trashed regions up to top instead of end
JDK-8383354	Update LCMS to 2.19.1
JDK-8383473	Follow on from tzdata2026b time change to include temporary hack BC time change
JDK-8383601	RISC-V: ShenandoahBarrierSetAssembler::load_reference_barrier calls "weak" on "phantom" path
JDK-8383630	Fix iteration in tests doing class redefinition
JDK-8384043	[REDO] Incorrect handling of Hawaii_Aleutian metazone
JDK-8384158	[GHA] Downgrade Windows GHA runners to windows-2022 temporarily
JDK-8384163	(so) SocketChannel.connect and finishConnect() exception messages could be improved
JDK-8384223	RISC-V: entry_barrier_offset should consider UseZtso
JDK-8384486	NTLM tests fail on Windows 11 and Windows Server 2025
JDK-8384495	Update Libpng to 1.6.58
JDK-8384540	[25u, 21u, 17u] Update GHA JDKs after Apr/26 updates

Issue ID	Summary
JDK-8384815	SelectOneKeyOutOfMany and PreferredKey fail after expired test certificate
JDK-8384902	Update GIFlib to 6.1.3
JDK-8385390	Update FreeType to 2.14.3
JDK-8385490	Update HarfBuzz to 14.2.0
JDK-8386551	Windows build broken because of MSys2/Make update

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-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

Issue ID	Summary
JDK-8379211	Uninitialised memory in Java_com_sun_javafx_font_freetype_OSFreeType_FT_1Outline_1De compose
JDK-8379257	Update JPEG Image Decoding Software to 10
JDK-8379336	Update libxml2 to 2.15.2
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-8381982	Add pull request template
JDK-8382872	Change JavaFX release version to 25.0.4 in jfx25u
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	2.14.3	java.desktop	JDK-8385390
GIFFlib	GIFFlib	6.1.3	java.desktop	JDK-8384902
HarfBuzz	HarfBuzz	14.2.0	java.desktop	JDK-8385490
LCMS	LittleCMS	2.19.1	java.desktop	JDK-8383354
libjpeg	JPEG Image Decoding Software	10	javafx.web	JDK-8379257
Libpng	Libpng	1.6.58	java.awt	JDK-8384495
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 25.0.4+9

Release Notes

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