

# Liberica JDK 17.0.10+13

## Release Notes



Liberica JDK  
17.0.10  
January 16, 2024

**be//soft**

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# 1. Introduction

This document provides the late-breaking information about Liberica JDK 17.0.10 release.

The full version string for this update release is 17.0.10+13. The version number is 17.

## 2. Liberica JDK 17.0.10+13

Liberica is a certified, Java SE 17-compliant distribution of OpenJDK 17, which works on server (Linux x86\_64, Linux ARM64, Windows 64), desktop (Windows 64, Mac, Linux x86\_64), and embedded devices (Linux ARM64, Linux ARMv7, including Raspberry Pi 2 & 3 (ARMv6 hardfloat)). It has the following notable additions:

- Linux x86\_64 version contains support for ZGC.
- Linux x86\_64, ARMv8 and ARMv7 distributions include a choice of Client VM, Server VM and Minimal VM.
- Alpine Linux x86\_64 and aarch64 are built with musl support.
- Windows x86\_64, Windows ARMv8, Mac, Linux x86\_64, and Linux ARMv7 distributions contain OpenJFX 17.
- Linux ARMv7 distribution contains Device IO API compiled for Raspberry Pi.

Refer to the Oracle JDK 17.0.10 release notes for further information on JDK 17 features. This document further outlines the peculiarities of Liberica distribution as compared to Oracle JDK 17 distribution.

## 3. Liberica JDK 17 distribution

Liberica JDK 17 is distributed as .rpm, .zip, .deb and .tar.gz packages. Please select the most appropriate for your purposes.

Liberica JDK 17 introduced all [new features](#) supported by OpenJDK 17.

With the introduction of the Jigsaw feature in JDK 9 and Minimal VM it is now possible to create a Runtime that is sufficient to run your application and trim down the size of the Runtime. To generate a Runtime with just the Minimal VM, add `--vm=minimal` to jlink options.

By default, the Liberica uses Server VM. Server VM and Client VM can be enabled with `-server` and `-client` command line options, respectively. In case the deployment requires minimizing the footprint, it may be beneficial to use Minimal VM, which emphasis is a minimal footprint. It has C1 JIT compiler only, Serial GC and no serviceability features.

## 4. Security Baselines

BellSoft Liberica follows the security baselines for Oracle Java SE. Please refer to the Oracle documentation for a list of issues fixed in a given release.



# 5. Known Issues

This release does not contain any known issues.

## 6. 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-2024-20918	7.4	hotspot	compiler	network	high	none	none	unchanged	high	high	none
CVE-2024-20919	5.9	hotspot	runtime	network	high	none	none	unchanged	none	high	none
CVE-2024-20921	5.9	hotspot	compiler	network	high	none	none	unchanged	high	none	none
CVE-2024-20922	2.5	javafx	window-toolkit	local	high	none	required	unchanged	none	low	none
CVE-2024-20923	3.1	javafx	graphics	network	high	none	required	unchanged	low	none	none
CVE-2024-20925	3.1	javafx	media	network	high	none	required	unchanged	none	low	none
CVE-2024-20932	7.5	security-libs	java.security	network	low	none	none	unchanged	none	high	none
CVE-2024-20945	4.7	security-libs	javax.xml.crypto	local	high	low	none	unchanged	high	none	none
CVE-2024-20952	7.4	security-libs	java.security	network	high	none	none	unchanged	high	high	none

## 7. Notable Issues

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

Issue ID	
JDK-8315551	<p>Summary: Increase <code>jdk.jar.maxSignatureFileSize</code> default size, which is too low for JARs such as WhiteSource/Mend unified agent jar</p> <p>Description: <code>jdk.jar.maxSignatureFileSize</code> default size of 8MB was too low and caused errors. The fix increased the default value to 16MB.</p>
JDK-8315836	<p>Summary: Add Certigna Root CA - 2</p> <p>Description: The Certigna root certificate has been added to the cacerts truststore.</p>
JDK-8318664	<p>Summary: Creating a non static nested class without enclosing class throws <code>VerifyError</code></p> <p>Description: Now a static child class of an non static class without enclosing class (<code>EnclosingClass</code>) throws a compiler error at compile time instead of the <code>VerifyError</code> at runtime.</p>
JDK-8318933	<p>Summary: Add Telia Root CA v2</p> <p>Description: Telia root certificate was added.</p>
JDK-8319144	<p>Summary: Add <code>KEEPALIVE</code> Extended Socket Options Support for Windows</p> <p>Description: The <code>mssql-jdbc</code> driver uses the <code>keepAliveTime</code> and <code>keepAliveInterval</code> socket options to maintain idle connections to the server. However, this feature of maintaining idle connections by driver was only supported on Linux and Mac. The support for the <code>KEEPALIVE</code> socket options was implemented within the JDK for Windows.</p>

Issue ID	
JDK-8319819	<p>Summary: Add Let's Encrypt ISRG Root X2</p> <p>Description: New Let's Encrypt root certificates were added.</p>
JDK-8320376	<p>Summary: Add an approximation of total bytes allocated on the Java heap by the JVM</p> <p>Description: A new method (<code>com.sun.management.ThreadMXBean.getTotalThreadAllocatedBytes()</code>) was added, which returns an approximation of the total number of bytes allocated by the JVM on the Java heap since JVM launch.</p>
JDK-8320395	<p>Summary: Add four DigiCert root certificates</p> <p>Description: Four new DigiCert root certificates were added.</p>
JDK-8320513	<p>Summary: Call <code>X509KeyManager.chooseClientAlias</code> once for all key types</p> <p>Description: The method is now called once with all possible key types. The javadoc was changed to indicate that the method might be called several times during a single key resolution, and that not all possible key types may be presented in a single call.</p>

## 8. Resolved Issues

### JDK issues

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

Issue ID	Summary
JDK-6445283	ProgressMonitorInputStream not large file aware (>2GB)
JDK-8041447	Test javax/swing/dnd/7171812/bug7171812.java fails with java.lang.RuntimeException: Test failed, scroll on drag doesn't work
JDK-8061729	Update java/net tests to eliminate dependency on sun.net.www.MessageHeader and some other internal APIs
JDK-8161536	sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java fails with ProviderException
JDK-8168469	Memory leak in JceSecurity
JDK-8176567	nsk/jdi/ReferenceType/instances/instances002: TestFailure: Unexpected size of referenceType.instances(nsk.share.jdi.TestInterfaceImplementer1): 11, expected: 10
JDK-8193543	Regression automated test '/open/test/jdk/java/awt/TrayIcon/SystemTrayInstance/SystemTrayInstanceTest.java' fails
JDK-8198668	MemoryPoolMBean/isUsageThresholdExceeded/isexceeded001/TestDescription.java still failing
JDK-8202790	DnD test DisposeFrameOnDragTest.java does not clean up

Issue ID	Summary
JDK-8202931	[macos] java/awt/Choice/ChoicePopupLocation/ChoicePopupLocation.java fails
JDK-8207166	jdk/jshell/JdiHangingLaunchExecutionControlTest.java - launch timeout
JDK-8225313	serviceability/jvmti/HeapMonitor/MyPackage/HeapMonitorStatObjectCorrectnessTest.java failed with Unexpected high difference percentage
JDK-8228990	JFR: TestNetworkUtilizationEvent.java expects 2+ Network interfaces on Linux but finding 1
JDK-8232839	JDI AfterThreadDeathTest.java failed due to "FAILED: Did not get expected IllegalThreadStateException on a StepRequest.enable()"
JDK-8232933	Javac inferred type does not conform to equality constraint
JDK-8239801	[macos] java/awt/Focus/UnaccessibleChoice/AccessibleChoiceTest.java fails
JDK-8244289	fatal error: Possible safepoint reached by thread that does not allow it
JDK-8247351	[aarch64] NullPointerException during stack walking (clhsdb "where -a")
JDK-8249826	5 javax/net/ssl/SSLEngine tests use @ignore w/o bug-id
JDK-8258951	java/net/httpclient/HandshakeFailureTest.java failed with "RuntimeException: Not found expected SSLHandshakeException in java.io.IOException"
JDK-8262186	Call X509KeyManager.chooseClientAlias once for all key types
JDK-8262901	[macos_aarch64] NativeCallTest expected:<← 3.8194101E18> but was:<3.02668882E10>
JDK-8265586	[windows] last button is not shown in AWT Frame with BorderLayout and MenuBar set.

Issue ID	Summary
JDK-8266593	vmTestbase/nsk/jvmti/PopFrame/popframe011 fails with "assert(java_thread == _state→get_thread()) failed: Must be"
JDK-8268433	serviceability/dcmd/framework/VMVersionTest.java fails with Unable to send object throw not established PipeIO Listener Thread connection
JDK-8268916	Tests for AffirmTrust roots
JDK-8269425	2 jdk/jfr/api/consumer/streaming tests failed to attach
JDK-8270199	Most SA tests are skipped on macosx-aarch64 because all executables are signed
JDK-8270447	[IR Framework] Add missing compilation level restriction when using FlipC1C2 stress option
JDK-8271073	Improve testing with VM option VerifyArchivedFields
JDK-8271566	DSA signature length value is not accurate in P11Signature
JDK-8271824	mark hotspot runtime/CompressedOops tests which ignore external VM flags
JDK-8271826	mark hotspot runtime/condy tests which ignore external VM flags
JDK-8271828	mark hotspot runtime/classFileParserBug tests which ignore external VM flags
JDK-8271829	mark hotspot runtime/Throwable tests which ignore external VM flags
JDK-8271886	mark hotspot runtime/InvocationTests tests which ignore external VM flags
JDK-8271887	mark hotspot runtime/CDSCompressedKPtrs tests which ignore external VM flags
JDK-8271890	mark hotspot runtime/Dictionary tests which ignore external VM flags

Issue ID	Summary
JDK-8271891	mark hotspot runtime/Safepoint tests which ignore external VM flags
JDK-8271892	mark hotspot runtime/PrintStringTableStats/PrintStringTableStatsTest.java test as ignoring external VM flags
JDK-8271893	mark hotspot runtime/PerfMemDestroy/PerfMemDestroy.java test as ignoring external VM flags
JDK-8271904	mark hotspot runtime/ClassFile tests which ignore external VM flags
JDK-8271905	mark hotspot runtime/Metaspace tests which ignore external VM flags
JDK-8272099	mark hotspot runtime/Monitor tests which ignore external VM flags
JDK-8272291	mark hotspot runtime/logging tests which ignore external VM flags
JDK-8272551	mark hotspot runtime/modules tests which ignore external VM flags
JDK-8272552	mark hotspot runtime/cds tests which ignore external VM flags
JDK-8272998	ImageIO.read() throws incorrect exception type
JDK-8273456	Do not hold ttyLock around stack walking
JDK-8273522	Rename test property vm.cds.archived.java.heap to vm.cds.write.archived.java.heap
JDK-8273629	compiler/uncommontrap/TestDeoptOOM.java fails with release VMs
JDK-8273831	PrintServiceLookup spawns 2 threads in the current classloader, getting orphaned
JDK-8273921	Refactor NSK/JDI tests to create thread using factory



Issue ID	Summary
JDK-8274211	Test man page that options are documented
JDK-8274345	make build-test-lib is broken
JDK-8275329	ZGC: vmTestbase/gc/gctests/SoftReference/soft004/soft004.java fails with assert(_phases→length() ≤ 1000) failed: Too many recored phases?
JDK-8275333	Print count in "Too many recored phases?" assert
JDK-8275440	Remove VirtualSpaceList::is_full()
JDK-8275509	ModuleDescriptor.hashCode isn't reproducible across builds
JDK-8276036	The value of full_count in the message of insufficient codecache is wrong
JDK-8276054	JMH benchmarks for Fences
JDK-8276123	ZipFile::getEntry will not return a file entry when there is a directory entry of the same name within a Zip File
JDK-8276711	compiler/codecache/cli tests failing when SegmentedCodeCache used with -Xint
JDK-8276819	javax/print/PrintServiceLookup/FlushCustomClassLoader.java fails to free
JDK-8277307	Pre shared key sent under both session_ticket and pre_shared_key extensions
JDK-8279856	Parallel: Use PreservedMarks to record promotion-failed objects
JDK-8281015	Further simplify NMT backend
JDK-8281149	(fs) java/nio/file/FileStore/Basic.java fails with java.lang.RuntimeException: values differ by more than 1GB

Issue ID	Summary
JDK-8281874	Can't unpack msi installers from test/jdk/tools/jpackage/windows/test/jdk/tools/jpackage/windows/WinShortcutPromptTest.java test
JDK-8282011	test/jdk/tools/jpackage/windows/WinL10nTest.java test fails if light.exe is not in %PATH%
JDK-8282017	sun/net/www/protocol/https/HttpsURLConnection/B6216082.java fails with "SocketException: Unexpected end of file from server"
JDK-8283670	gtest os.release_multi_mappings_vm is still racy
JDK-8284047	Harmonize/Standardize the SSLSocket/SSLEngine/SSLWebSocketSSLEngine test templates
JDK-8285516	clearPassword should be called in a finally try block
JDK-8285785	CheckCleanerBound test fails with PasswordCallback object is not released
JDK-8285867	Convert applet manual tests SelectionVisible.java to Frame and automate
JDK-8286430	make test TEST="gtest:<sometag>" exits with error when it shouldn't
JDK-8286473	Drop --enable-preview from Record related tests
JDK-8286474	Drop --enable-preview from Sealed Classes related tests
JDK-8286475	Drop --enable-preview from instanceof pattern matching related tests
JDK-8286969	Add a new test library API to execute kinit in SecurityTools.java
JDK-8287596	Reorg jdk.test.lib.util.ForceGC
JDK-8287671	Adjust ForceGC to invoke System::gc fewer times for negative case

Issue ID	Summary
JDK-8287867	Bad merge of jdk/test/lib/util/ForceGC.java causing test compilation error
JDK-8288325	[windows] Actual and Preferred Size of AWT Non-resizable frame are different
JDK-8288961	jpackage: test MSI installation fix
JDK-8288993	Make AwtFramePackTest generic by removing @requires tag
JDK-8289584	(fs) Print size values in java/nio/file/FileStore/Basic.java when they differ by > 1GiB
JDK-8289745	JfrStructCopyFailed uses heap words instead of bytes for object sizes
JDK-8290909	MemoryPoolMBean/isUsageThresholdExceeded tests failed with "isUsageThresholdExceeded() returned false, and is still false, while threshold = MMMMMMMM and used peak = NNNNNNN"
JDK-8291154	Create a non static nested class without enclosing class throws VerifyError
JDK-8291550	RISC-V: jdk uses misaligned memory access when AvoidUnalignedAccess enabled
JDK-8291911	java/io/File/GetXSpace.java fails with "53687091200 != 161051996160"
JDK-8292067	Convert test/sun/management/jmxremote/bootstrap shell tests to java version
JDK-8292072	NMT: repurpose Tracking overhead counter as global malloc counter
JDK-8292261	adjust timeouts in JLI GetObjectSizeIntrinsicsTest.java
JDK-8292381	java/net/httpclient/SpecialHeadersTest.java fails with "ERROR: Shutting down connection: HTTP/2 client stopped"

Issue ID	Summary
JDK-8292636	(dc) Problem listing of java/nio/channels/DatagramChannel/Unref.java has incorrect issue ID
JDK-8292717	Clean up checking of testing requirements in configure
JDK-8293156	Dcmd VM.classloaders fails to print the full hierarchy
JDK-8293335	sun/management/jmxremote/bootstrap/RmiBootstrapTest.java#id1 failed with "Agent communication error: java.io.EOFException"
JDK-8293343	sun/management/jmxremote/bootstrap/RmiSslNoKeyStoreTest.java failed with "Agent communication error: java.io.EOFException"
JDK-8293563	[macos-aarch64] SA core file tests failing with sun.jvm.hotspot.oops.UnknownOopException
JDK-8293579	tools/jpackage/share/jdk/jpackage/tests/UnicodeArgsTest.java fails on Japanese Windows platform
JDK-8294402	Add diagnostic logging to VMProps.checkDockerSupport
JDK-8294427	Check boxes and radio buttons have rendering issues on Windows in High DPI env
JDK-8294881	test/hotspot/jtreg/vmTestbase/nsk/jdi/VirtualMachine/dispose/dispose003/TestDescription.java fails
JDK-8295229	Try to verify gtest version
JDK-8295424	adjust timeout for another JLI GetObjectSizeIntrinsicsTest.java subtest
JDK-8296275	Write a test to verify setAccelerator method of JMenuItem
JDK-8296437	NMT incurs costs if disabled

Issue ID	Summary
JDK-8296821	compiler/jvmci/jdk.vm.ci.code.test/src/jdk/vm/ci/code/test/NativeCallTest.java fails after JDK-8262901
JDK-8297142	jdk/jfr/event/runtime/TestShutdown.java fails on Linux ppc64le and Linux aarch64
JDK-8297296	java/awt/Mouse/EnterExitEvents/DragWindowTest.java fails with "No MouseReleased event on label!"
JDK-8297367	disable TestRedirectLinks.java in slowdebug mode
JDK-8297640	Increase buffer size for buf (insert_features_names) in Abstract_VM_Version::insert_features_names
JDK-8297798	Timeout with DTLSOverDatagram test template
JDK-8297958	NMT: Display peak values
JDK-8298298	NMT: count deltas are printed with 32-bit signed size
JDK-8298619	java/io/File/GetXSpace.java is failing
JDK-8298735	Some tools/jpackage/windows/* tests fails with jtreg test timeout
JDK-8298867	Basics.java fails with SSL handshake exception
JDK-8298868	Update EngineCloseOnAlert.java for changes to TLS implementation
JDK-8298869	Update ConnectionTest.java for changes to TLS implementation
JDK-8298872	Update CheckStatus.java for changes to TLS implementation
JDK-8298873	Update IllegalRecordVersion.java for changes to TLS implementation

Issue ID	Summary
JDK-8298874	Update TestAllSuites.java for TLS v1.2 and 1.3
JDK-8298905	Test "java/awt/print/PrinterJob/ImagePrinting/PrintARGBImage.java" fails because the frames of instruction does not display
JDK-8299075	TestStringDeduplicationInterned.java fails because extra deduplication
JDK-8299207	[Testbug] Add back test/jdk/java/awt/Graphics2D/DrawPrimitivesTest.java
JDK-8299241	jdk/jfr/api/consumer/streaming/TestJVMCrash.java generates unnecessary core file
JDK-8299255	Unexpected round errors in FreetypeFontScaler
JDK-8299677	Formatter.format might take a long time to format an integer or floating-point
JDK-8299748	java/util/zip/Deinflate.java failing on s390x
JDK-8300259	Add test coverage for processing of pending block files in signed JARs
JDK-8300272	Improve readability of the test JarWithOneNonDisabledDigestAlg
JDK-8300727	java/awt/List/ListGarbageCollectionTest/AwtListGarbageCollectionTest.java failed with "List wasn't garbage collected"
JDK-8300997	Add curl support to createJMHBundle.sh
JDK-8301065	Handle control characters in java_lang_String::print
JDK-8301189	validate-source fails after JDK-8298873
JDK-8301247	JPackage app-image exe launches multiple exe's in JDK 17+
JDK-8301377	adjust timeout for JLI GetObjectSizeIntrinsicsTest.java subtest again

Issue ID	Summary
JDK-8301455	comments in TestTypeAnnotations still refer to resolved JDK-8068737
JDK-8301457	Code in SendPortZero.java is uncommented even after JDK-8236852 was fixed
JDK-8301489	C1: ShortLoopOptimizer might lift instructions before their inputs
JDK-8301570	Test runtime/jni/nativeStack/ needs to detach the native thread
JDK-8301701	java/net/DatagramSocket/DatagramSocketMulticasting.java should be hardened
JDK-8302017	Allocate BadPaddingException only if it will be thrown
JDK-8302109	Trivial fixes to btree tests
JDK-8302525	Write a test to check various components send Events while mouse and key are used simultaneously
JDK-8302607	increase timeout for ContinuousCallSiteTargetChange.java
JDK-8303607	SunMSCAPI provider leaks memory and keys
JDK-8303922	build-test-lib target is broken
JDK-8304174	Remove delays from httpserver tests
JDK-8304954	SegmentedCodeCache fails when using large pages
JDK-8305502	adjust timeouts in three more M&M tests
JDK-8305505	NPE in javazic compiler
JDK-8305646	compile error on Alpine with gcc12 after 8298619 in libGetXSpace.c

Issue ID	Summary
JDK-8306280	Open source several choice AWT tests
JDK-8307123	Fix deprecation warnings in DPrinter
JDK-8307311	Timeouts on one macOS 12.6.1 host of two Swing JTableHeader tests
JDK-8307403	java/util/zip/DeflInflate.java timed out
JDK-8307732	build-test-lib is broken
JDK-8308047	java/util/concurrent/ScheduledThreadPoolExecutor/BasicCancelTest.java timed out and also had jcmd pipe errors
JDK-8308103	Massive (up to ~30x) increase in C2 compilation time since JDK 17
JDK-8308116	jdk.test.lib.compiler.InMemoryJavaCompiler.compile does not close files
JDK-8308204	Enhanced certificate processing
JDK-8308223	failure handler missed jcmd.vm.info command
JDK-8308592	Framework for CA interoperability testing
JDK-8308593	Add KEEPALIVE Extended Socket Options Support for Windows
JDK-8308910	Allow executeAndLog to accept running process
JDK-8309032	jpackage does not work for module projects unless --module-path is specified
JDK-8309104	[JVMCI] compiler/unsafe/UnsafeGetStableArrayElement test asserts wrong values with Graal
JDK-8309216	Cast from jchar* to char* in test java/io/GetXSpace.java



Issue ID	Summary
JDK-8309258	RISC-V: Add riscv_hwprobe syscall
JDK-8309502	RISC-V: String.indexOf intrinsic may produce misaligned memory loads
JDK-8309778	java/nio/file/Files/CopyAndMove.java fails when using second test directory
JDK-8309974	some JVMCI tests fail when VM options include -XX:+EnableJVMCI
JDK-8310233	Fix THP detection on Linux
JDK-8310265	(process) jspawnhelper should not use argv[0]
JDK-8310268	RISC-V: misaligned memory access in String.Compare intrinsic
JDK-8310321	make JDKOPT_CHECK_CODESIGN_PARAMS more verbose
JDK-8310656	RISC-V: <i>builtin_clear_cache</i> can fail silently.
JDK-8310687	JDK-8303215 is incomplete
JDK-8311511	Improve description of NativeLibrary JFR event
JDK-8311514	Incorrect regex in TestMetaSpaceLog.java
JDK-8311585	Add JRadioButtonMenuItem to bug8031573.java
JDK-8311592	ECKeySizeParameterSpec causes too many exceptions on third party providers
JDK-8311631	When multiple users run tools/jpackage/share/LicenseTest.java, Permission denied for writing /var/tmp/*.files
JDK-8311813	C1: Uninitialized PhiResolver::_loop field

Issue ID	Summary
JDK-8312065	Socket.connect does not timeout when profiling
JDK-8312078	[PPC] JcmdScale.java Failing on AIX
JDK-8312126	NullPointerException in CertStore.getCRLs after 8297955
JDK-8312182	THPs cause huge RSS due to thread start timing issue
JDK-8312394	[linux] SIGSEGV if kernel was built without hugepage support
JDK-8312395	Improve assertions in growableArray
JDK-8312440	assert(cast != nullptr) failed: must have added a cast to pin the node
JDK-8312467	relax the builddir check in make/autoconf/basic.m4
JDK-8312489	Increase jdk.jar.maxSignatureFileSize default which is too low for JARs such as WhiteSource/Mend unified agent jar
JDK-8312535	MidiSystem.getSoundbank() throws unexpected SecurityException
JDK-8312573	Failure during CompileOnly parsing leads to ShouldNotReachHere
JDK-8312585	Rename DisableTHPStackMitigation flag to THPStackMitigation
JDK-8312592	New parentheses warnings after HarfBuzz 7.2.0 update
JDK-8312612	handle WideCharToMultiByte return values
JDK-8312620	WSL Linux build crashes after JDK-8310233
JDK-8312625	Test serviceability/dcmd/vm/TrimLibcHeapTest.java failed: RSS use increased

Issue ID	Summary
JDK-8312909	C1 should not inline through interface calls with non-subtype receiver
JDK-8312974	Bump update version for OpenJDK: jdk-17.0.10
JDK-8313164	src/java.desktop/windows/native/libawt/windows/awt_Robot.cpp GetRGBPixels adjust releasing of resources
JDK-8313252	Java_sun_awt_windows_ThemeReader_paintBackground release resources in early returns
JDK-8313322	RISC-V: implement MD5 intrinsic
JDK-8313626	C2 crash due to unexpected exception control flow
JDK-8313657	com.sun.jndi.ldap.Connection.cleanup does not close connections on SocketTimeoutErrors
JDK-8313691	use close after failing os::fdopen in vmError and ciEnv
JDK-8313779	RISC-V: use andn / orn in the MD5 instrinsic
JDK-8313781	Add regression tests for large page logging and user-facing error messages
JDK-8313782	Add user-facing warning if THPs are enabled but cannot be used
JDK-8313792	Verify 4th party information in src/jdk.internal.le/share/legal/jline.md
JDK-8314024	SIGSEGV in PhaseIdealLoop::build_loop_late_post_work due to bad immediate dominator info
JDK-8314045	ArithmeticException in GaloisCounterMode
JDK-8314063	The socket is not closed in Connection::createSocket when the handshake failed for LDAP connection

Issue ID	Summary
JDK-8314094	java/lang/ProcessHandle/InfoTest.java fails on Windows when run as user with Administrator privileges
JDK-8314121	test tools/jpackage/share/RuntimePackageTest.java#id0 fails on RHEL8
JDK-8314139	TEST_BUG: runtime/os/THPInThreadStackPreventionTest.java could fail on machine with large number of cores
JDK-8314144	gc/g1/ihop/TestIHOPStatic.java fails due to extra concurrent mark with -Xcomp
JDK-8314242	Update applications/scimark/Scimark.java to accept VM flags
JDK-8314263	Signed jars triggering Logger finder recursion and StackOverflowError
JDK-8314295	Enhance verification of verifier
JDK-8314307	Improve loop handling
JDK-8314468	Improve Compiler loops
JDK-8314495	Update to use jreg 7.3.1
JDK-8314679	SA fails to properly attach to JVM after having just detached from a different JVM
JDK-8314883	Java_java_util_prefs_FileSystemPreferences_lockFile0 write result errno in missing case
JDK-8315020	The macro definition for LoongArch64 zero build is not accurate.
JDK-8315062	[GHA] get-bootjdk action should return the absolute path
JDK-8315195	RISC-V: Update hwprobe query for new extensions

Issue ID	Summary
JDK-8315206	RISC-V: hwprobe query is_set return wrong value
JDK-8315214	Do not run sun/tools/jhsdb tests concurrently
JDK-8315377	C2: assert(u→find_out_with(Op_AddP) == nullptr) failed: more than 2 chained AddP nodes?
JDK-8315415	OutputAnalyzer.shouldMatchByLine() fails in some cases
JDK-8315499	build using devkit on Linux ppc64le RHEL puts path to devkit into libsplashscreen
JDK-8315549	CITime misreports code/total nmethod sizes
JDK-8315606	Open source few swing text/html tests
JDK-8315644	increase timeout of sun/security/tools/jarsigner/Warning.java
JDK-8315683	Parallelize java/util/concurrent/tck/JSR166TestCase.java
JDK-8315692	Parallelize gc/stress/TestStressRSetCoarsening.java test
JDK-8315696	SignedLoggerFinderTest.java test failed
JDK-8315751	RandomTestBsi1999 fails often with timeouts on Linux ppc64le
JDK-8315766	Parallelize gc/stress/TestStressIHOPMultiThread.java test
JDK-8315770	serviceability/sa/TestJmapCoreMetaspace.java should run with -XX: -VerifyDependencies
JDK-8315863	[GHA] Update checkout action to use v4
JDK-8315937	Enable parallelism in vmTestbase/nsk/stress/numeric tests

Issue ID	Summary
JDK-8316087	Test SignedLoggerFinderTest.java is still failing
JDK-8316178	Better diagnostic header for CodeBlobs
JDK-8316206	Test StretchedFontTest.java fails for Baekmuk font
JDK-8316461	Fix: make test outputs TEST SUCCESS after unsuccessful exit
JDK-8316514	Better diagnostic header for VtableStub
JDK-8316566	RISC-V: Zero extended narrow oop passed to Atomic::cmpxchg
JDK-8316645	RISC-V: Remove dependency on libatomic by adding cmpxchg 1b
JDK-8316710	Exclude java/awt/font/Rotate/RotatedTextTest.java
JDK-8316743	RISC-V: Change UseVectorizedMismatchIntrinsic option result to warning
JDK-8316746	Top of lock-stack does not match the unlocked object
JDK-8316778	test hprof lib: invalid array element type from JavaValueArray.elementSize
JDK-8316859	RISC-V: Disable detection of V through HWCAP
JDK-8316906	Clarify TLABWasteTargetPercent flag
JDK-8316976	Improve signature handling
JDK-8317121	vector_masked_load instruction is moved too early after JDK-8286941
JDK-8317327	Remove JT_JAVA dead code in jib-profiles.js
JDK-8317373	Add Telia Root CA v2

Issue ID	Summary
JDK-8317374	Add Let's Encrypt ISRG Root X2
JDK-8317547	Enhance TLS connection support
JDK-8317705	ProblemList sun/tools/jstat/jstatLineCountsX.sh on linux-ppc64le and aix due to JDK-8248691
JDK-8317706	Exclude java/awt/Graphics2D/DrawString/RotTransText.java on linux
JDK-8317772	NMT: Make peak values available in release builds
JDK-8317834	java/lang/Thread/IsAlive.java timed out
JDK-8317920	JDWP-agent sends broken exception event with onthrow option
JDK-8317967	Enhance test/jdk/javax/net/ssl/TLSCommon/SSLEngineTestCase.java to handle default cases
JDK-8318669	Target OS detection in 'test-prebuilt' makefile target is incorrect when running on MSYS2
JDK-8318705	[macos] ProblemList java/rmi/registry/multipleRegistries/MultipleRegistries.java
JDK-8318759	Add four DigiCert root certificates
JDK-8318855	Extra file added by mistake during the backport of JDK-8283326
JDK-8318889	C2: add bailout after assert Bad graph detected in build_loop_late
JDK-8318953	RISC-V: Small refactoring for MacroAssembler::test_bit
JDK-8319184	RISC-V: improve MD5 intrinsic

Issue ID	Summary
JDK-8319187	Add three eMudhra emSign roots
JDK-8319525	RISC-V: Rename *_riscv64.ad files to *_riscv.ad under riscv/gc
JDK-8319958	test/jdk/java/io/File/libGetXSpace.c does not compile on Windows 32-bit
JDK-8320053	GHA: Cross-compile gtest code
JDK-8320209	VectorMaskGen clobbers rflags on x86_64
JDK-8320597	RSA signature verification fails on signed data that does not encode params correctly
JDK-8320601	ProblemList java/lang/invoke/lambda/LambdaFileEncodingSerialization.java on linux-all

## JFX issues

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

Issue ID	Summary
JDK-8181084	JavaFX show big icons in system menu on macOS with Retina display
JDK-8201538	Remove implementation support for applets from JavaFX
JDK-8251240	Menus inaccessible on Linux with i3 wm
JDK-8260528	Clean glass-gtk sizing and positioning code
JDK-8292922	[Linux] No more drag events when new Stage is created in drag handler



Issue ID	Summary
JDK-8299968	Second call to Stage.setScene() create sizing issue with uiScale > 1.0
JDK-8309508	Possible memory leak in JPEG image loader
JDK-8313048	Better Glyph handling
JDK-8313056	General enhancements of Glass
JDK-8313105	Improved media framing
JDK-8315657	Application window not activated in macOS 14 Sonoma
JDK-8318823	Change JavaFX release version to 17.0.10 in jfx17u
JDK-8319066	Application window not always activated in macOS 14 Sonoma
JDK-8319231	Unrecognized "minimum" key in .jcheck/conf causes /reviewers command to be ignored
JDK-8320267	WebView crashes on macOS 11 with WebKit 616.1



# Liberica JDK 17.0.10+13

## Release Notes

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