

# Liberica JDK 17.0.12+10

## Release Notes



Liberica JDK  
17.0.12  
July 16, 2024

**be//soft**

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# Contents

1. Version information	5
------------------------	---

---

2. What's New	6
---------------	---

---

Notable Changes	6
-----------------	---

Builds of Liberica JDK With CRaC	7
----------------------------------	---

IANA TZ Data update	7
---------------------	---

3. Known Issues	8
-----------------	---

---

4. Fixed CVEs	9
---------------	---

---

5. Resolved Issues	10
--------------------	----

---

JDK issues	10
------------	----

JFX issues	27
------------	----

6. Updates to Third Party Libraries	28
-------------------------------------	----

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# 1. Version information

This document provides information about Liberica JDK 17.0.12 release.

The full version string for this update release is 17.0.12+10. The version number is 17.

Liberica JDK 17 is distributed as `.apk`, `.rpm`, `.zip`, `.deb`, 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-8327048	<p>Summary: Make TrimNativeHeapInterval a product switch</p> <p>Description: <code>TrimNativeHeapInterval</code> has been made an official product switch. It allows the JVM to trim the native heap at periodic intervals. This option is only available on Linux with glibc.</p>
JDK-8327448	<p>Summary: Test 'api/java_awt/interactive/SystemTrayTests.html' failed because A blue ball icon was added outside of the system tray</p> <p>Description: When pressing the 'Add tray icon' button, the blue ball icon is now added to the system tray.</p>
JDK-8327808	<p>Summary: Disable DTLS 1.0</p> <p>Description: The DTLS 1.0 is disabled by default.</p>
JDK-8329798	<p>Summary: Fallback option for POST-only OCSP requests</p> <p>Description: Extensive use of GET requests may result in unpredicted behavior with some systems. Now you can set <code>USE_GET</code> to false to use POST requests.</p>
JDK-8330018	<p>Summary: Generate CDS archive when creating custom JDK image</p> <p>Description: A jlink option <code>--generate-cds-archive</code> was added to generate CDS archive when creating a custom JDK image.</p>

**Issue ID**

JDK-8330756	<p>Summary: Add a security category to the java -XshowSettings option</p> <p>Description: The -XshowSettings menu now displays relevant information about JDK security configuration.</p>
JDK-8331685	<p>Summary: Inconsistent behavior in com.sun.jndi.ldap.Connection::createSocket</p> <p>Description: SocketFactory now checks what socket is created. Unconnected sockets are not supported. If an unconnected socket is created, it throws a SocketException in SocketFactory::createSocket(). The documentation was also corrected.</p>
JDK-8332481	<p>Summary: Add GlobalSign 2 TLS root certificates</p> <p>Description: GlobalSign Root R46 and GlobalSign Root E46 root certificates were added.</p>

## Builds of Liberica JDK With CRaC

This release of Liberica JDK includes full CRaC support. CRaC support is available for Liberica JDK 17 and 21. For more information, see [Using CRaC with Java applications](#).

## IANA TZ Data update

This release of Liberica JDK 17.0.12 comes with IANA Time Zone Database version [2024b](#). The following are the main changes in this update:

Improve historical data for Mexico, Mongolia, and Portugal.  
System V names are now obsolescent.  
The main data form now uses %z.  
The code now conforms to RFC 8536 for early timestamps.  
Support POSIX.1-2024, which removes asctime\_r and ctime\_r.  
Assume POSIX.2-1992 or later for shell scripts.  
SUPPORT\_C89 now defaults to 1.

# 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-2024-21131	3.7	hotspot	runtime	network	high	none	none	unchanged	none	low	none
CVE-2024-21138	3.7	hotspot	runtime	network	high	none	none	unchanged	none	none	low
CVE-2024-21140	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none
CVE-2024-21145	4.8	client-libs	2d	network	high	none	none	unchanged	low	low	none
CVE-2024-21147	7.4	hotspot	compiler	network	high	none	none	unchanged	high	high	none

# 5. Resolved Issues

## JDK issues

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

Issue ID	Summary
JDK-8015739	Background of JInternalFrame is located out of JInternalFrame
JDK-8042380	Test javax/swing/JFileChooser/4524490/bug4524490.java fails with InvocationTargetException
JDK-8159927	Add a test to verify JMOD files created in the images do not have debug symbols
JDK-8163229	several regression tests have a main method that is never executed
JDK-8163921	URLConnection default Accept header is malformed according to HTTP/1.1 RFC
JDK-8177107	Reduce memory footprint of java.lang.reflect.Constructor/Method
JDK-8185862	AWT Assertion Failure in ::GetDIBits(hBMDC, hBM, 0, 1, 0, gpBitmapInfo, 0) 'awt_Win32GraphicsDevice.cpp', at line 185
JDK-8187759	Background not refreshed when painting over a transparent JFrame
JDK-8213714	AttachingConnector/attach/attach001 failed due to "bind failed: Address already in use"
JDK-8223696	java/net/httpclient/MaxStreams.java failed with didn't finish within the timeout

Issue ID	Summary
JDK-8256660	Disable DTLS 1.0
JDK-8260540	serviceability/jdwp/AllModulesCommandTest.java failed with "Debuggee error: 'ERROR: transport error 202: bind failed: Address already in use'"
JDK-8263940	NPE when creating default file system when default file system provider is packaged as JAR file on class path
JDK-8264322	Generate CDS archive when creating custom JDK image
JDK-8266242	java/awt/GraphicsDevice/CheckDisplayModes.java failing on macOS 11 ARM
JDK-8267796	vmTestbase/nsk/jvmti/scenarios/hotswap/HS201/hs201t002/TestDescription.java fails with NoClassDefFoundError
JDK-8268974	GetJREPath() JLI function fails to locate libjava.so if not standard Java launcher is used
JDK-8269914	Factor out heap printing for G1 young and full gc
JDK-8270018	Add scoped object for g1 young gc JFR notification
JDK-8272315	Improve assert_different_registers
JDK-8272651	G1 heap region info print order changed by JDK-8269914
JDK-8272903	Missing license header in ArenaAllocator.java
JDK-8272916	Copyright year was modified unintentionally in jlink.properties and ImagePluginStack.java
JDK-8273153	Consolidate file_exists into os:file_exists

Issue ID	Summary
JDK-8273774	CDSPluginTest should only expect classes_nocoops.jsa exists on supported 64-bit platforms
JDK-8275334	Move class loading Events to a separate section in hs_err files
JDK-8275868	ciReplay: Inlining fails with "unloaded signature classes" due to wrong protection domains
JDK-8276227	ciReplay: SIGSEGV if classfile for replay compilation is not present after JDK-8275868
JDK-8278893	Parallel: Remove GCWorkerDelayMillis
JDK-8280030	[REDO] Parallel: More precise boundary in ObjectStartArray::object_starts_in_range
JDK-8280056	gtest/LargePageGtests.java#use-large-pages failed "os.release_one_mapping_multi_commits_vm"
JDK-8280113	(dc) DatagramSocket.receive does not always throw when the channel is closed
JDK-8280377	MethodHandleProxies does not correctly invoke default methods with varargs
JDK-8280546	Remove hard-coded 127.0.0.1 loopback address
JDK-8280835	jdk/javadoc/tool/CheckManPageOptions.java depends on source hierarchy
JDK-8281658	Add a security category to the java -XshowSettings option
JDK-8282094	[REDO] Parallel: Refactor PSCardTable::scavenge_contents_parallel
JDK-8283349	Robustness improvements to java/util/prefs/AddNodeChangeListener.jar

Issue ID	Summary
JDK-8285452	Add a new test library API to replace a file content using FileUtils.java
JDK-8286045	Use ForceGC for cleaner test cases
JDK-8286311	remove boilerplate from use of runTests
JDK-8286490	JvmtiEventControllerPrivate::set_event_callbacks CLEARING_MASK computation is incorrect
JDK-8286740	JFR: Active Setting event emitted incorrectly
JDK-8286781	Replace the deprecated/obsolete gethostbyname and inet_addr calls
JDK-8289401	Add dump output to TestRawRSACipher.java
JDK-8289643	File descriptor leak with ProcessBuilder.startPipeline
JDK-8290126	Add a check in JavadocTester for "javadoc should not crash"
JDK-8290885	java/lang/ProcessBuilder/PipelineLeaksFD.java fail: More or fewer pipes than expected
JDK-8290901	Reduce use of -source in langtools tests
JDK-8291753	Add JFR event for GC CPU Time
JDK-8294137	Review running times of java.math tests
JDK-8294156	Allow PassFailJFrame.Builder to create test UI
JDK-8294699	Launcher causes lingering busy cursor
JDK-8295026	Remove unused fields in StyleSheet

Issue ID	Summary
JDK-8295343	sun/security/pkcs11 tests fail on Linux RHEL 8.6 and newer
JDK-8295944	Move the Http2TestServer and related classes into a package of its own
JDK-8296137	diags-examples.xml is broken
JDK-8296190	TestMD5Intrinsics and TestMD5MultiBlockIntrinsics don't test the intrinsics
JDK-8296610	java/net/URLConnection/SetAuthenticator/HTTPSetAuthenticatorTest.java failed with "BindException: Address already in use: connect"
JDK-8297082	Remove sun/tools/jhsdb/BasicLauncherTest.java from problem list
JDK-8297292	java/nio/channels/FileChannel/FileExtensionAndMap.java is too slow
JDK-8297445	PPC64: Represent Registers as values
JDK-8297449	Update JInternalFrame Metal Border code
JDK-8297645	Drop the test/jdk/java/net/httpclient/reactivestreams-tck-tests/TckDriver.java test
JDK-8297695	Fix typos in test/langtools files
JDK-8298413	[s390] CPUInfoTest fails due to uppercase feature string
JDK-8298939	Refactor open/test/jdk/javax/rmi/ssl/SSLSocketParametersTest.sh to jtreg java test
JDK-8299023	TestPLABResize.java and TestPLABPromotion.java are failing intermittently
JDK-8299858	[Metrics] Swap memory limit reported incorrectly when too large

Issue ID	Summary
JDK-8301183	(zipfs) jdk/jdk/nio/zipfs/TestLocOffsetFromZip64EF.java failing with ZipException:R0 on OL9
JDK-8301381	Verify DTLS 1.0 cannot be negotiated
JDK-8301753	AppendFile/WriteFile has differences between make 3.81 and 4+
JDK-8302069	javax/management/remote/mandatory/notif/NotifReconnectDeadlockTest.java update
JDK-8302512	Update IANA Language Subtag Registry to Version 2023-02-14
JDK-8302907	[PPC64] Use more constexpr in class Register
JDK-8303457	Introduce convenience test library APIs for creating test servers for tests in test/jdk/java/net/httpclient
JDK-8303466	C2: failed: malformed control flow. Limit type made precise with MaxL/MinL
JDK-8303972	(zipfs) Make test/jdk/jdk/nio/zipfs/TestLocOffsetFromZip64EF.java independent of the zip command line
JDK-8304761	Update IANA Language Subtag Registry to Version 2023-03-22
JDK-8304927	Update java/net/httpclient/BasicAuthTest.java to check basic auth over HTTP/2
JDK-8305169	java/security/cert/CertPathValidator/OCSP/GetAndPostTests.java — test server didn't start in timely manner
JDK-8305645	System Tray icons get corrupted when Windows primary monitor changes
JDK-8305819	LogConfigurationTest intermittently fails on AArch64

Issue ID	Summary
JDK-8305874	Open source AWT Key, Text Event related tests
JDK-8305931	jdk/jfr/jcmd/TestJcmdDumpPathToGCRoots.java failed with "Expected chains but found none"
JDK-8305942	Open source several AWT Focus related tests
JDK-8305943	Open source few AWT Focus related tests
JDK-8306031	Update IANA Language Subtag Registry to Version 2023-04-13
JDK-8306040	HttpResponseInputStream.available() returns 1 on empty stream
JDK-8306067	Open source AWT Graphics,GridBagLayout related tests
JDK-8306634	Open source AWT Event related tests
JDK-8306714	Open source few Swing event and AbstractAction tests
JDK-8306838	GetGraphicsTest needs to be headful
JDK-8307411	Test java/foreign/channels/TestAsyncSocketChannels.java failed: IllegalStateException: Already closed
JDK-8307423	[s390x] Represent Registers as values
JDK-8308021	Update IANA Language Subtag Registry to Version 2023-05-11
JDK-8309409	Update HttpInputStreamTest and BodyProcessorInputStreamTest to use hg.openjdk.org
JDK-8309527	Improve test proxy performance
JDK-8309630	Clean up tests that reference deploy modules



Issue ID	Summary
JDK-8309763	Move tests in test/jdk/sun/misc/URLClassPath directory to test/jdk/jdk/internal/loader
JDK-8309890	TestStringDeduplicationInterned.java waits for the wrong condition
JDK-8310031	Parallel: Implement better work distribution for large object arrays in old gen
JDK-8310818	Refactor more Locale tests to use JUnit
JDK-8311893	Interactive component with ARIA role 'tabpanel' does not have a programmatically associated name
JDK-8311964	Some jtreg tests failing on x86 with error 'unrecognized VM options' (C2 flags)
JDK-8312194	test/hotspot/jtreg/applications/ctw/modules/jdk_crypto_ec.java cannot handle empty modules
JDK-8312320	Remove javax/rmi/ssl/SSLSocketParametersTest.sh from ProblemList
JDK-8312383	Log X509ExtendedKeyManager implementation class name in TLS/SSL connection
JDK-8312916	Remove remaining usages of -Xdebug from test/hotspot/jtreg
JDK-8313307	java/util/Formatter/Padding.java fails on some Locales
JDK-8313702	Update IANA Language Subtag Registry to Version 2023-08-02
JDK-8314283	Support for NSS tests on aarch64 platforms
JDK-8314794	Improve UTF8 String supports
JDK-8314832	Few runtime/os tests ignore vm flags

Issue ID	Summary
JDK-8314835	gtest wrappers should be marked as flagless
JDK-8315071	Modify TrayIconScalingTest.java, PrintLatinCJKTest.java to use new PassFailJFrame's builder pattern usage
JDK-8315117	Update Zlib Data Compression Library to Version 1.3
JDK-8315609	Open source few more swing text/html tests
JDK-8315652	RISC-V: Features string uses wrong separator for jtreg
JDK-8315663	Open source misc awt tests
JDK-8315677	Open source few swing JFileChooser and other tests
JDK-8315726	Open source several AWT applet tests
JDK-8315741	Open source few swing JFormattedTextField and JPopupMenu tests
JDK-8315824	Open source several Swing Text/HTML related tests
JDK-8315834	Open source several Swing JSpinner related tests
JDK-8315889	Open source several Swing HTMLDocument related tests
JDK-8315898	Open source swing JMenu tests
JDK-8316017	Refactor timeout handler in PassFailJFrame
JDK-8316053	Open some swing tests 3
JDK-8316138	Add GlobalSign 2 TLS root certificates

Issue ID	Summary
JDK-8316142	Enable parallelism in vmTestbase/nsk/monitoring/stress/lowmem tests
JDK-8316154	Opensource JTextArea manual tests
JDK-8316164	Opensource JMenuBar manual test
JDK-8316186	RISC-V: Remove PlatformCmpxchg<4>
JDK-8316242	Opensource SwingGraphics manual test
JDK-8316462	sun/jvmsstat/monitor/MonitoredVm/MonitorVmStartTerminate.java ignores VM flags
JDK-8316563	test tools/jpackage/linux/LinuxResourceTest.java fails on CentOS Linux release 8.5.2111 and Fedora 27
JDK-8316608	Enable parallelism in vmTestbase/gc/vector tests
JDK-8317287	[macos14] InterJVMGetDropSuccessTest.java: Child VM: abnormal termination
JDK-8318322	Update IANA Language Subtag Registry to Version 2023-10-16
JDK-8318580	"javax/swing/MultiMonitor/MultimonVImage.java failing with Error. Can't find library: /open/test/jdk/java/awt/regtesthelpers" after JDK-8316053
JDK-8318599	URLConnection cache issues leading to crashes in JGSS w/ native GSS introduced by 8303809
JDK-8318727	Enable parallelism in vmTestbase/vm/gc/concurrent tests
JDK-8318809	java/util/concurrent/ConcurrentLinkedQueue/WhiteBox.java shows intermittent failures on linux ppc64le and aarch64
JDK-8318854	[macos14] Running any AWT app prints Secure coding warning

Issue ID	Summary
JDK-8319048	Monitor deflation unlink phase prolongs time to safepoint
JDK-8319128	sun/security/pkcs11 tests fail on OL 7.9 aarch64
JDK-8319136	Skip pkcs11 tests on linux-aarch64
JDK-8319268	Build failure with GCC8.3.1 after 8313643
JDK-8319338	tools/jpackage/share/RuntimeImageTest.java fails with -XX:+UseZGC
JDK-8319372	C2 compilation fails with "Bad immediate dominator info"
JDK-8319859	Better symbol storage
JDK-8320005	Allow loading of shared objects with .a extension on AIX
JDK-8320097	Improve Image transformations
JDK-8320113	[macos14] : ShapeNotSetSometimes.java fails intermittently on macOS 14
JDK-8320129	"top" command during jtreg failure handler does not display CPU usage on OSX
JDK-8320303	Allow PassFailJFrame to accept single window creator
JDK-8320342	Use PassFailJFrame for TruncatedPopupMenuTest.java
JDK-8320548	Improved loop handling
JDK-8320570	NegativeArraySizeException decoding >1G UTF8 bytes with non-ascii characters
JDK-8320681	[macos] Test tools/jpackage/macosex/MacAppStoreJlinkOptionsTest.java timed out on macOS

Issue ID	Summary
JDK-8320712	Rewrite BadFactoryTest in pure Java
JDK-8320943	Files/probeContentType/Basic.java fails on latest Windows 11 - content type mismatch
JDK-8321107	Add more test cases for JDK-8319372
JDK-8321489	Update LCMS to 2.16
JDK-8321925	sun/security/mscapi/KeytoolChangeAlias.java fails with "Alias <246810> does not exist"
JDK-8322239	[macos] a11y : java.lang.NullPointerException is thrown when focus is moved on the JTabbedPane
JDK-8322503	Shenandoah: Clarify gc state usage
JDK-8322858	compiler/c2/aarch64/TestFarJump.java fails on AArch64 due to unexpected PrintAssembly output
JDK-8322920	Some ProcessTools.execute* functions are declared to throw Throwable
JDK-8323210	Update the usage of cmsFLAGS_COPY_ALPHA
JDK-8323231	Improve array management
JDK-8323390	Enhance mask blit functionality
JDK-8323519	Add applications/ctw/modules to Hotspot tiered testing
JDK-8323717	Introduce test keyword for tests that need external dependencies
JDK-8323994	gtest runner repeats test name for every single gtest assertion

Issue ID	Summary
JDK-8324050	Issue store-store barrier after re-materializing objects during deoptimization
JDK-8324238	[macOS] java/awt/Frame/ShapeNotSetSometimes/ShapeNotSetSometimes.java fails with the shape has not been applied msg
JDK-8324243	Compilation failures in java.desktop module with gcc 14
JDK-8324559	Improve 2D image handling
JDK-8324598	use mem_unit when working with sysinfo memory and swap related information
JDK-8324632	Update Zlib Data Compression Library to Version 1.3.1
JDK-8324723	GHA: Upgrade some actions to avoid deprecated Node 16
JDK-8324733	[macos14] Problem list tests which fail due to macOS bug described in JDK-8322653
JDK-8324824	AArch64: Detect Ampere-1B core and update default options for Ampere CPUs
JDK-8325137	com/sun/management/ThreadMXBean/ThreadCpuTimeArray.java can fail in Xcomp with out of expected range
JDK-8325203	System.exit(0) kills the launched 3rd party application
JDK-8325213	Flags introduced by configure script are not passed to ADLC build
JDK-8325254	CKA_TOKEN private and secret keys are not necessarily sensitive
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Issue ID	Summary
JDK-8325326	[PPC64] Don't relocate in case of allocation failure
JDK-8325372	Shenandoah: SIGSEGV crash in unnecessary_acquire due to LoadStore split through phi
JDK-8325432	enhance assert message "relocation addr must be in this section"
JDK-8325496	Make TrimNativeHeapInterval a product switch
JDK-8325579	Inconsistent behavior in com.sun.jndi.ldap.Connection::createSocket
JDK-8325600	Better symbol storage
JDK-8325862	set -XX:+ErrorFileToStderr when executing java in containers for some container related jtreg tests
JDK-8325876	crashes in docker container tests on Linuxppc64le Power8 machines
JDK-8325972	Add -x to bash for building with LOG=debug
JDK-8326006	Allow TEST_VM_FLAGLESS to set flagless mode
JDK-8326101	[PPC64] Need to bailout cleanly if creation of stubs fails when code cache is out of space
JDK-8326140	src/jdk.accessibility/windows/native/libjavaaccessbridge/AccessBridgeJavaEntryPoints.cpp ReleaseStringChars might be missing in early returns
JDK-8326201	[S390] Need to bailout cleanly if creation of stubs fails when code cache is out of space
JDK-8326351	Update the Zlib version in open/src/java.base/share/legal/zlib.md to 1.3.1
JDK-8326521	JFR: CompilerPhase event test fails on windows 32 bit

Issue ID	Summary
JDK-8326529	JFR: Test for CompilerCompile events fails due to time out
JDK-8326591	New test JmodExcludedFiles.java fails on Windows when --with-external-symbols-in-bundles=public is used
JDK-8326638	Crash in PhaseIdealLoop::remix_address_expressions due to unexpected Region instead of Loop
JDK-8326643	JDK server does not send a dummy change_cipher_spec record after HelloRetryRequest message
JDK-8326661	sun/java2d/cmm/ColorConvertOp/ColConvTest.java assumes profiles were generated by LCMS
JDK-8326794	Bump update version for OpenJDK: jdk-17.0.12
JDK-8326891	Prefer RPATH over RUNPATH for \$ORIGIN rpaths in internal JDK binaries
JDK-8326936	RISC-V: Shenandoah GC crashes due to incorrect atomic memory operations
JDK-8326942	[17u] Backout "8325254: CKA_TOKEN private and secret keys are not necessarily sensitive"
JDK-8326960	GHA: RISC-V sysroot cannot be debootstrapped due to ongoing Debian t64 transition
JDK-8327036	[macosx-aarch64] SIGBUS in MarkActivationClosure::do_code_blob reached from Unsafe_CopySwapMemory0
JDK-8327059	os::Linux::print_proc_sys_info add swappiness information
JDK-8327136	javax/management/remote/mandatory/notif/NotifReconnectDeadlockTest.java fails on libgraal



Issue ID	Summary
JDK-8327413	Enhance compilation efficiency
JDK-8327631	Update IANA Language Subtag Registry to Version 2024-03-07
JDK-8327989	java/net/httpclient/ManyRequest.java should not use "localhost" in URIs
JDK-8327998	Enable java/lang/ProcessBuilder/JspawnhelperProtocol.java on Mac
JDK-8328066	WhiteBoxResizeTest failure on linux-x86: Could not reserve enough space for 2097152KB object heap
JDK-8328165	improve assert(idx < _maxlrg) failed: oob
JDK-8328166	Epsilon: 'EpsilonHeap::allocate_work' misuses the parameter 'size' as size in bytes
JDK-8328168	Epsilon: Premature OOM when allocating object larger than uncommitted heap size
JDK-8328194	Add a test to check default rendering engine
JDK-8328524	[x86] StringRepeat.java failure on linux-x86: Could not reserve enough space for 2097152KB object heap
JDK-8328540	test javax/swing/JSplitPane/4885629/bug4885629.java fails on windows hidpi
JDK-8328638	Fallback option for POST-only OCSP requests
JDK-8328705	GHA: Cross-compilation jobs do not require build JDK
JDK-8328812	Update and move siphash license
JDK-8328825	Google CAInterop test failures

Issue ID	Summary
JDK-8328948	GHA: Restoring sysroot from cache skips the build after JDK-8326960
JDK-8328988	[macos14] Problem list LightweightEventTest.java which fails due to macOS bug described in JDK-8322653
JDK-8328997	Remove unnecessary template parameter lists in GrowableArray
JDK-8329013	StackOverflowError when starting Apache Tomcat with signed jar
JDK-8329213	Better validation for com.sun.security.ocsp.useget option
JDK-8329223	Parallel: Parallel GC resizes heap even if -Xms = -Xmx
JDK-8329570	G1: Excessive is_obj_dead_cond calls in verification
JDK-8329823	RISC-V: Need to sync CPU features with related JVM flags
JDK-8330094	RISC-V: Save and restore FRM in the call stub
JDK-8330156	RISC-V: Range check auipc + signed 12 imm instruction
JDK-8330242	RISC-V: Simplify and remove CORRECT_COMPILER_ATOMIC_SUPPORT in atomic_linux_riscv.hpp
JDK-8330523	Reduce runtime and improve efficiency of KeepAliveTest
JDK-8330815	Use pattern matching for instanceof in KeepAliveCache
JDK-8331113	createJMHBundle.sh support configurable maven repo mirror
JDK-8331352	error: template-id not allowed for constructor/destructor in C++20
JDK-8331641	[17u]: Bump GHA bootstrap JDK to 17.0.11

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Issue ID	Summary
JDK-8331942	On Linux aarch64, CDS archives should be using 64K alignment by default
JDK-8334441	Mark tests in jdk_security_infra group as manual

## JFX issues

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

Issue ID	Summary
JDK-8301312	Create implementation of NSAccessibilityButton protocol
JDK-8329705	Add missing Application thread checks to platform specific a11y methods
JDK-8330682	Change JavaFX release version to 17.0.12 in jfx17u
JDK-8331748	Update libxml2 to 2.12.6
JDK-8332328	[GHA] GitHub Actions build fails on Linux: unable to find gcc-13
JDK-8332539	Update libxml2 to 2.12.7

# 6. Updates to Third Party Libraries

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

Library	Full name	New Version	Module	JBS
LCMS	LittleCMS	2.16	java.desktop	JDK-8321489
Zlib	Zlib Data Compression Library	1.3.1	java.base	JDK-8324632

# 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 17.0.12+10  
Release Notes

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