

# Liberica JDK 21.0.6+10

## Release Notes



Liberica JDK  
21.0.6  
January 21, 2025

**be//soft**

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# 1. Version information

This document provides information about Liberica JDK 21.0.6 release.

The full version string for this update release is 21.0.6+10. The version number is 21.

Liberica JDK 21 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-8337966	<p>Summary: Files.readAttributes fails with Operation not permitted on older docker releases</p> <p>Description: JDK used to fail with 'java.nio.file.FileSystemException: Operation not permitted' on the old docker versions (before v19). Regression was introduced by JDK-8316304 adding a statx syscall. On the old docker versions, statx is not added to the default seccomp <a href="#">white list</a>. It caused EPERM in some systems even if the container image was updated.</p>
JDK-8339581	<p>Summary: {ClassLoader,Memory}MXBean::isVerbose methods are inconsistent with their setVerbose methods</p> <p>Description: The ClassLoadingMXBean and MemoryMXBean APIs have setVerbose methods to control verbose mode and isVerbose methods to query it. Some JCK tests expect setVerbose(false) to disable verbose mode and, subsequently, isVerbose() to return false. However, if logging to a file is enabled by using '-Xlog' on the java launcher command line, isVerbose() returned true even after calling setVerbose(false).</p>

## Issue ID

JDK-8339907 Summary: Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs

Description: Google and Mozilla have announced plans to distrust TLS Server certificates issued by Entrust. This enhancement implements similar restrictions in the JDK. The restrictions is enforced in the SunJSSE Provider of the Java Secure Socket Extension (JSSE) API. A TLS session will not be negotiated if the server's certificate chain is anchored by any of the Certificate Authorities specified in this issue and the certificate's notBefore date is after October 31, 2024. If necessary, you can work around the restrictions by removing 'ENTRUST\_TLS' from the 'jdk.security.caDistrustPolicies' security property.

JDK-8339908 Summary: BasicFileAttributes.creationTime() falls back to epoch if birth time is unavailable (Linux)

Description: The change which resolved JDK-8316304 added support for obtaining the file creation time from the birth timestamp. Prior to this change, the last modified time had been returned to the creation time. After this change, if the birth timestamp was unavailable, for example if it was not supported by the file system even though the operating system supported it, then the epoch (0) was returned to the creation time. This could cause problems in situations which relied on the old behavior.

JDK-8341054 Summary: Hotspot should be able to use more than 64 logical processors on Windows

Description: Hotspot can use processors across all Windows processor groups on Windows 11/Windows Server 2022 and later. The GetSystemInfo API was replaced by the GetActiveProcessorCount API to correctly retrieve the total number of processors available on the system and a new 'UseAllWindowsProcessorGroups' Windows-specific product flag was added to enable this functionality.

JDK-8341392 Summary: Add 2 SSL.com TLS roots

Description: New SSL.com TLS roots are added as they are the issuing CA used by Entrust going forward.

## Issue ID

JDK-8341393

Summary: Change Entrust TLS distrust date to November 12, 2024

Description: Google has changed their distrust date for Entrust from November 1 to November 12, 2024. Entrust has also changed the date they plan to use SSL.com as the issuing CA for public TLS server certificates to November 12. To align with those updated dates, the distrust date was changed to November 12, 2024.

JDK-8343828

Summary: generic type information lost on mandated parameters of record's compact constructors

Description: Reflection was not retrieving generic type information for mandated parameters. For compact record constructors, the generic type information is now fetched from the Signature attribute for its parameters independently if they are mandated or not. This is a core-reflection only change, the compilation of records with compact constructor is not affected in any way.

JDK-8344678

Summary: Update Timezone Data to 2024b

Description: This OpenJDK release upgrades the in-tree copy of the IANA timezone database to 2024b. This timezone update is primarily concerned with improving historical data for Mexico, Mongolia and Portugal. It also makes Asia/Choibalsan an alias for Asia/Ulaanbaatar and makes the MET timezone the same as CET.

JDK-8345437

Summary: Add an operation mode to the jar command when extracting to not overwrite existing files

Description: In previous OpenJDK releases, when the jar tool extracted files from an archive, it would overwrite any existing files with the same name in the target directory. With this release, a new option ('-k' or '--keep-old-files') may be specified so that existing files are not overwritten. The option may be specified in short or long option form, as in the following examples: '\* jar xkf foo.jar', '\* jar --extract --keep-old-files --file foo.jar'. By default, the old behaviour remains in place and files are overwritten.



## 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 21.0.6 upgrades the in-tree copy of the IANA timezone database to [2024b](#). This timezone update is primarily concerned with improving historical data for Mexico, Mongolia and Portugal. It also makes Asia/Choibalsan an alias for Asia/Ulaanbaatar and makes the MET timezone the same as CET.

The 2024b update also makes a number of legacy timezone IDs equal to geographical names rather than fixed offsets, as follows:

- EST → America/Panama instead of -5:00
- MST → America/Phoenix instead of -7:00
- HST → Pacific/Honolulu instead of -10:00

For long-term support releases of Liberica JDK, this change is overridden locally to retain the existing fixed offset mapping.

## 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-2025-21502	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none

# 5. Resolved Issues

## JDK issues

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

Issue ID	Summary
JDK-6942632	Hotspot should be able to use more than 64 logical processors on Windows
JDK-8028127	Regtest java/security/Security/SynchronizedAccess.java is incorrect
JDK-8195675	Call to insertText with single character from custom Input Method ignored
JDK-8207908	JMXStatusTest.java fails assertion intermittently
JDK-8225220	When the Tab Policy is checked,the scroll button direction displayed incorrectly.
JDK-8240343	JDI stopListening/stoplis001 "FAILED: listening is successfully stopped without starting listening"
JDK-8283214	[macos] Screen magnifier does not show the magnified text for JComboBox
JDK-8296787	Unify debug printing format of X.509 cert serial numbers
JDK-8296972	[macos13] java/awt/Frame/MaximizedToIconified/MaximizedToIconified.java: getExtendedState() != 6 as expected.
JDK-8306446	java/lang/management/ThreadMXBean/Locks.java transient failures

Issue ID	Summary
JDK-8308429	jvmti/StopThread/stopthrd007 failed with "NoClassDefFoundError: Could not initialize class jdk.internal.misc.VirtualThreads"
JDK-8309218	java/util/concurrent/locks/Lock/OOMEInAQS.java still times out with ZGC, Generational ZGC, and SerialGC
JDK-8311301	MethodExitTest may fail with stack buffer overrun
JDK-8311656	Shenandoah: Unused ShenandoahSATBAndRemarkThreadsClosure::_claim_token
JDK-8312518	[macos13] setFullScreenWindow() shows black screen on macOS 13 & above
JDK-8313374	--enable-ccache's CCACHE_BASEDIR breaks builds
JDK-8313878	Exclude two compiler/rtm/locking tests on ppc64le
JDK-8315701	[macos] Regression: KeyEvent has different keycode on different keyboard layouts
JDK-8316428	G1: Nmethod count statistics only count last code root set iterated
JDK-8316893	Compile without -fno-delete-null-pointer-checks
JDK-8316895	SeenThread::print_action_queue called on a null pointer
JDK-8316907	Fix nonnull-compare warnings
JDK-8317116	Provide layouts for multiple test UI in PassFailJFrame
JDK-8317575	AArch64: C2_MacroAssembler::fast_lock uses rscratch1 for cmpxchg result
JDK-8318105	[jmh] the test java.security.HSS failed with 2 active threads

Issue ID	Summary
JDK-8318442	java/net/httpclient/ManyRequests2.java fails intermittently on Linux
JDK-8319640	ClassicFormat::parseObject (from DateTimeFormatter) does not conform to the javadoc and may leak DateTimeException
JDK-8319673	Few security tests ignore VM flags
JDK-8319678	Several tests from corelibs areas ignore VM flags
JDK-8319960	RISC-V: compiler/intrinsics/TestInteger/LongUnsignedDivMod.java failed with "counts: Graph contains wrong number of nodes"
JDK-8319970	AArch64: enable tests compiler/intrinsics/Test(Long Integer)UnsignedDivMod.java on aarch64
JDK-8319973	AArch64: Save and restore FPCR in the call stub
JDK-8320192	SHAKE256 does not work correctly if n >= 137
JDK-8320397	RISC-V: Avoid passing t0 as temp register to MacroAssembler:: cmpxchg_obj_header/cmpxchgptr
JDK-8320575	generic type information lost on mandated parameters of record's compact constructors
JDK-8320586	update manual test/jdk/TEST.groups
JDK-8320665	update jdk_core at open/test/jdk/TEST.groups
JDK-8320673	PageFormat/CustomPaper.java has no Pass/Fail buttons; multiple instructions
JDK-8320682	[AArch64] C1 compilation fails with "Field too big for insn"
JDK-8320892	AArch64: Restore FPU control state after JNI

Issue ID	Summary
JDK-8321299	runtime/logging/ClassLoadUnloadTest.java doesn't reliably trigger class unloading
JDK-8321470	ThreadLocal.nextHashCode can be static final
JDK-8321474	TestAutoCreateSharedArchiveUpgrade.java should be updated with JDK 21
JDK-8321543	Update NSS to version 3.96
JDK-8321550	Update several runtime/cds tests to use vm flags or mark as flagless
JDK-8321616	Retire binary test vectors in test/jdk/java/util/zip/ZipFile
JDK-8321940	Improve CDSHeapVerifier in handling of interned strings
JDK-8322166	Files.isReadable/isWritable/isExecutable expensive when file does not exist
JDK-8322754	click JComboBox when dialog about to close causes IllegalComponentStateException
JDK-8322809	SystemModulesMap::classNames and moduleName arrays do not match the order
JDK-8322830	Add test case for ZipFile opening a ZIP with no entries
JDK-8323562	SaslInputStream.read() may return wrong value
JDK-8323688	C2: Fix UB of jlong overflow in PhaseIdealLoop::is_counted_loop()
JDK-8324841	PKCS11 tests still skip execution
JDK-8324861	Exceptions::wrap_dynamic_exception() doesn't have ResourceMark
JDK-8325038	runtime/cds/appcds/ProhibitedPackage.java can fail with UseLargePages

Issue ID	Summary
JDK-8325399	Add tests for virtual threads doing Selector operations
JDK-8325506	Ensure randomness is only read from provided SecureRandom object
JDK-8325525	Create jtreg test case for JDK-8325203
JDK-8325610	CTW: Add StressIncrementalInlining to stress options
JDK-8325762	Use PassFailJFrame.Builder.splitUI() in PrintLatinCJKTest.java
JDK-8325851	Hide PassFailJFrame.Builder constructor
JDK-8325906	Problemlist vmTestbase/vm/mlvm/meth/stress/compiler/deoptimize/Test.java#id1 until JDK-8320865 is fixed
JDK-8326100	DeflaterDictionaryTests should use Deflater.getBytesWritten instead of Deflater.getTotalOut
JDK-8326121	vmTestbase/gc/g1/unloading/tests/unloading_keepRef_rootClass_inMemoryC ompilation_keep_cl failed with Full gc happened. Test was useless.
JDK-8326611	Clean up vmTestbase/nsk/stress/stack tests
JDK-8326898	NSK tests should listen on loopback addresses only
JDK-8327924	Simplify TrayIconScalingTest.java
JDK-8328021	Convert applet test java/awt/List/SetFontTest/SetFontTest.html to main program
JDK-8328242	Add a log area to the PassFailJFrame
JDK-8328303	3 JDI tests timed out with UT enabled



Issue ID	Summary
JDK-8328379	Convert URLDragTest.html applet test to main
JDK-8328402	Implement pausing functionality for the PassFailJFrame
JDK-8328619	sun/management/jmxremote/bootstrap/SSLConfigFilePermissionTest.java failed with BindException: Address already in use
JDK-8328665	serviceability/jvmti/vthread/PopFrameTest failed with a timeout
JDK-8328723	IP Address error when client enables HTTPS endpoint check on server socket
JDK-8329353	ResolvedReferencesNotNullTest.java failed with Incorrect resolved references array, quxString should not be archived
JDK-8329533	TestCDSVMCrash fails on libgraal
JDK-8330045	Enhance array handling
JDK-8330278	Have SSLSocketTemplate.doClientSide use loopback address
JDK-8330621	Make 5 compiler tests use ProcessTools.executeProcess
JDK-8331391	Enhance the keytool code by invoking the buildTrustedCerts method for essential options
JDK-8331393	AArch64: u32 _partial_subtype_ctr loaded/stored as 64
JDK-8331864	Update Public Suffix List to 1cbd6e7
JDK-8332112	Update nsk.share.Log to don't print summary during VM shutdown hook
JDK-8332340	Add JavacBench as a test case for CDS

Issue ID	Summary
JDK-8332461	ubsan : dependencies.cpp:906:3: runtime error: load of value 4294967295, which is not a valid value for type 'DepType'
JDK-8332724	x86 MacroAssembler may over-align code
JDK-8332777	Update JCTest suite
JDK-8332866	Crash in ImageIO JPEG decoding when MEM_STATS is enabled
JDK-8332901	Select{Current,New}ItemTest.java for Choice don't open popup on macOS
JDK-8333098	ubsan: bytecodeInfo.cpp:318:59: runtime error: division by zero
JDK-8333108	Update vmTestbase/nsk/share/DebuggeeProcess.java to don't use finalization
JDK-8333144	docker tests do not work when ubsan is configured
JDK-8333235	vmTestbase/nsk/jdb/kill/kill001/kill001.java fails with C1
JDK-8333248	VectorGatherMaskFoldingTest.java failed when maximum vector bits is 64
JDK-8333317	Test sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java failed with: Invalid ECDH ServerKeyExchange signature
JDK-8333427	langtools/tools/javac/newlines/NewLineTest.java is failing on Japanese Windows
JDK-8333728	ubsan: shenandoahFreeSet.cpp:1347:24: runtime error: division by zero
JDK-8333754	Add a Test against ECDSA and ECDH NIST Test vector
JDK-8333824	Unused ClassValue in VarHandles
JDK-8334057	JLinkReproducibleTest.java support receive test.tool.vm.opts

Issue ID	Summary
JDK-8334405	java/nio/channels/Selector/SelectWithConsumer.java#id0 failed in testWakeupDuringSelect
JDK-8334475	UnsafeIntrinsicsTest.java#ZGenerationalDebug assert(!assert_on_failure) failed: Has low-order bits set
JDK-8334560	[PPC64]: postalloc_expand_java_dynamic_call_sched does not copy all fields
JDK-8334562	Automate com/sun/security/auth/callback/TextCallbackHandler/Default.java test
JDK-8334567	[test] runtime/os/TestTracePageSizes move ppc handling
JDK-8334719	(se) Deferred close of SelectableChannel may result in a Selector doing the final close before concurrent I/O on channel has completed
JDK-8335142	compiler/c1/TestTraceLinearScanLevel.java occasionally times out with -Xcomp
JDK-8335172	Add manual steps to run security/auth/callback/TextCallbackHandler/Password.java test
JDK-8335267	[XWayland] move screencast tokens from .awt to .java folder
JDK-8335344	test/jdk/sun/security/tools/keytool/NssTest.java fails to compile
JDK-8335428	Enhanced Building of Processes
JDK-8335449	runtime/cds/DeterministicDump.java fails with File content different at byte ...
JDK-8335530	Java file extension missing in AuthenticatorTest
JDK-8335664	Parsing jsr broken: assert(bci >= 0 && bci < c → method() → code_size()) failed: index out of bounds

Issue ID	Summary
JDK-8335709	C2: assert(!loop→is_member(get_loop(useblock))) failed: must be outside loop
JDK-8335912	Add an operation mode to the jar command when extracting to not overwriting existing files
JDK-8336240	Test com/sun/crypto/provider/Cipher/DES/PerformanceTest.java fails with java.lang.ArithmeticException
JDK-8336257	Additional tests in jmxremote/startstop to match on PID not app name
JDK-8336315	tools/jpackage/windows/WinChildProcessTest.java Failed: Check is calculator process is alive
JDK-8336413	gtk headers : Fix typedef redeclaration of GMainContext and GdkPixbuf
JDK-8336564	Enhance mask blit functionality redux
JDK-8336640	Shenandoah: Parallel worker use in parallel_heap_region_iterate
JDK-8336854	CAInterop.java#actalisauthenticationrootca conflicted with /manual and /timeout
JDK-8336911	ZGC: Division by zero in heuristics after JDK-8332717
JDK-8337066	Repeated call of StringBuffer.reverse with double byte string returns wrong result
JDK-8337067	Test runtime/classFileParserBug/Bad_NCDFE_Msg.java won't compile
JDK-8337320	Update ProblemList.txt with tests known to fail on XWayland
JDK-8337331	crash: pinned virtual thread will lead to jvm crash when running with the javaagent option

Issue ID	Summary
JDK-8337410	The makefiles should set problemlist and adjust timeout basing on the given VM flags
JDK-8337780	RISC-V: C2: Change C calling convention for sp to NS
JDK-8337810	ProblemList BasicDirectoryModel/LoaderThreadCount.java on Windows
JDK-8337826	Improve logging in OCSPTimeout and SimpleOCSPResponder to help diagnose JDK-8309754
JDK-8337851	Some tests have name which confuse jtreg
JDK-8337876	[IR Framework] Add support for IR tests with @Stable
JDK-8337966	(fs) Files.readAttributes fails with Operation not permitted on older docker releases
JDK-8338058	map_or_reserve_memory_aligned Windows enhance remap assertion
JDK-8338101	remove old remap assertion in map_or_reserve_memory_aligned after JDK-8338058
JDK-8338109	java/awt/Mouse/EnterExitEvents/ResizingFrameTest.java duplicate in ProblemList
JDK-8338110	Exclude Fingerprinter::do_type from ubsan checks
JDK-8338112	Test testlibrary_tests/ir_framework/tests/TestPrivilegedMode.java fails with release build
JDK-8338344	Test TestPrivilegedMode.java intermittent fails java.lang.NoClassDefFoundError: jdk/test/lib/Platform

Issue ID	Summary
JDK-8338380	Update TLSCommon/interop/AbstractServer to specify an interface to listen for connections
JDK-8338389	[JFR] Long strings should be added to the string pool
JDK-8338402	GHA: some of bundles may not get removed
JDK-8338449	ubsan: division by zero in sharedRuntimeTrans.cpp
JDK-8338550	Do libubsan1 installation in test container only if requested
JDK-8338748	[17u,21u] Test Disconnect.java compile error: cannot find symbol after JDK-8299813
JDK-8338751	ConfigureNotify behavior has changed in KWin 6.2
JDK-8338759	Add extra diagnostic to java/net/InetAddress/ptr/Lookup.java
JDK-8338924	C1: assert(0 <= i && i < _len) failed: illegal index 5 for length 5
JDK-8339080	Bump update version for OpenJDK: jdk-21.0.6
JDK-8339180	Enhanced Building of Processes: Follow-on Issue
JDK-8339248	RISC-V: Remove li64 macro assembler routine and related code
JDK-8339384	Unintentional IOException in jdk.jdi module when JDWP end of stream occurs
JDK-8339386	Assertion on AIX - original PC must be in the main code section of the compiled method
JDK-8339416	[s390x] Provide implementation for resolve_global_bject

Issue ID	Summary
JDK-8339487	ProcessHandleImpl os_getChildren sysctl call - retry in case of ENOMEM and enhance exception message
JDK-8339548	GHA: RISC-V: Use Debian snapshot archive for bootstrap
JDK-8339560	Unaddressed comments during code review of JDK-8337664
JDK-8339591	Mark jdk/jshell/ExceptionMessageTest.java intermittent
JDK-8339637	(tz) Update Timezone Data to 2024b
JDK-8339644	Improve parsing of Day/Month in tzdata rules
JDK-8339648	ZGC: Division by zero in rule_major_allocation_rate
JDK-8339725	Concurrent GC crashed due to GetMethodDeclaringClass
JDK-8339731	java.desktop/share/classes/javafx/swing/text/html/default.css typo in margin settings
JDK-8339741	RISC-V: C ABI breakage for integer on stack
JDK-8339787	Add some additional diagnostic output to java/net/ipv6tests/UdpTest.java
JDK-8339803	Acknowledge case insensitive unambiguous keywords in tzdata files
JDK-8339892	Several security shell tests don't set TESTJAVA_OPTS
JDK-8340007	Refactor KeyEvent/FunctionKeyTest.java
JDK-8340008	KeyEvent/KeyTyped/Numpad1KeyTyped.java has 15 seconds timeout
JDK-8340109	Ubsan: ciEnv.cpp:1660:65: runtime error: member call on null pointer of type 'struct CompileTask'

Issue ID	Summary
JDK-8340210	Add positionTestUI() to PassFailJFrame.Builder
JDK-8340214	C2 compilation asserts with "no node with a side effect" in PhaseldealLoop::try_sink_out_of_loop
JDK-8340230	Tests crash: assert(is_in_encoding_range    k→is_interface()    k→is_abstract()) failed: sanity
JDK-8340306	Add border around instructions in PassFailJFrame
JDK-8340308	PassFailJFrame: Make rows default to number of lines in instructions
JDK-8340365	Position the first window of a window list
JDK-8340383	VM issues warning failure to find kernel32.dll on Windows nanoserver
JDK-8340387	Update OS detection code to recognize Windows Server 2025
JDK-8340398	[JVMCI] Unintuitive behavior of UseJVMCICompiler option
JDK-8340418	GHA: MacOS AArch64 bundles can be removed prematurely
JDK-8340461	Amend description for logArea
JDK-8340466	Add description for PassFailJFrame constructors
JDK-8340552	Harden TzdbZoneRulesCompiler against missing zone names
JDK-8340590	RISC-V: C2: Small improvement to vector gather load and scatter store
JDK-8340632	ProblemList java/nio/channels/DatagramChannel/ for MacOS
JDK-8340657	[PPC64] SA determines wrong unextendedSP



Issue ID	Summary
JDK-8340684	Reading from an input stream backed by a closed ZipFile has no test coverage
JDK-8340785	Update description of PassFailJFrame and samples
JDK-8340799	Add border inside instruction frame in PassFailJFrame
JDK-8340801	Disable ubsan checks in some awt/2d coding
JDK-8340804	doc/building.md update Xcode instructions to note that full install is required
JDK-8340812	LambdaForm customization via MethodHandle::updateForm is not thread safe
JDK-8340815	Add SECURITY.md file
JDK-8340899	Remove wildcard bound in PositionWindows.positionTestWindows
JDK-8340923	The class LogSelection copies uninitialized memory
JDK-8341024	[test] build/AbsPathsInImage.java fails with OOM when using ubsan-enabled binaries
JDK-8341146	RISC-V: Unnecessary fences used for load-acquire in template interpreter
JDK-8341235	Improve default instruction frame title in PassFailJFrame
JDK-8341261	Tests assume UnlockExperimentalVMOptions is disabled by default
JDK-8341562	RISC-V: Generate comments in -XX:+PrintInterpreter to link to source code
JDK-8341688	Aarch64: Generate comments in -XX:+PrintInterpreter to link to source code
JDK-8341722	Fix some warnings as errors when building on Linux with toolchain clang

Issue ID	Summary
JDK-8341806	Gcc version detection failure on Alinux3
JDK-8341927	Replace hardcoded security providers with new test.provider.name system property
JDK-8341997	Tests create files in src tree instead of scratch dir
JDK-8342014	RISC-V: ZStoreBarrierStubC2 clobbers rflags
JDK-8342063	[21u] [aix] Backport introduced redundant line in ProblemList
JDK-8342181	Update tests to use stronger Key and Salt size
JDK-8342183	Update tests to use stronger algorithms and keys
JDK-8342188	Update tests to use stronger key parameters and certificates
JDK-8342409	[s390x] C1 unwind_handler fails to unlock synchronized methods with LM_MONITOR
JDK-8342496	C2/Shenandoah: SEGV in compiled code when running jcstress
JDK-8342578	GHA: RISC-V: Bootstrap using Debian snapshot is still failing
JDK-8342607	Enhance register printing on x86_64 platforms
JDK-8342669	[21u] Fix TestArrayAllocatorMallocLimit after backport of JDK-8315097
JDK-8342681	TestLoadBypassesNullCheck.java fails improperly specified VM option
JDK-8342701	[PPC64] TestOSRLotsOfLocals.java crashes
JDK-8342765	[21u] RTM tests assume UnlockExperimentalVMOptions is disabled by default

Issue ID	Summary
JDK-8342823	Ubsan: ciEnv.cpp:1614:65: runtime error: member call on null pointer of type 'struct CompileTask'
JDK-8342905	Thread.setContextClassLoader from thread in FJP commonPool task no longer works after JDK-8327501 redux
JDK-8342962	[s390x] TestOSRLotsOfLocals.java crashes
JDK-8343285	java.lang.Process is unresponsive and CPU usage spikes to 100%
JDK-8343474	[updates] Customize README.md to specifics of update project
JDK-8343506	[s390x] multiple test failures with ubsan
JDK-8343724	[PPC64] Disallow OptoScheduling
JDK-8343848	Fix typo of property name in TestOAEPPadding after 8341927
JDK-8343877	Test AsyncClose.java intermittent fails - Socket.getInputStream().read() wasn't preempted
JDK-8343884	[s390x] Disallow OptoScheduling
JDK-8343923	GHA: Switch to Xcode 15 on MacOS AArch64 runners
JDK-8344164	[s390x] ProblemList hotspot/jtreg/runtime/NMT/VirtualAllocCommitMerge.java
JDK-8344628	Test TestEnableJVMCIProduct.java run with virtual thread intermittent fails
JDK-8344993	[21u] [REDO] Backport JDK-8327501 and JDK-8328366 to JDK 21
JDK-8345055	[21u] ProblemList failing rtm tests on ppc platforms

## JFX issues

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

Issue ID	Summary
JDK-8318388	Update libxslt to 1.1.39
JDK-8331616	ChangeListener is not triggered when the InvalidationListener is removed
JDK-8333374	Cannot invoke "com.sun.prism.RTTexture.contentsUseful()" because "this.txt" is null
JDK-8334124	Rendering issues with CSS "text-shadow" in WebView
JDK-8335714	Enhance playing MP3s
JDK-8335715	Improve Direct Show support
JDK-8336798	DRT test cssrounding.html test for linear layout fails with WebKit 619.1
JDK-8336941	Update libxslt to 1.1.42
JDK-8337481	File API: file.name contains path instead of name
JDK-8338306	WebView Drag and Drop fails with WebKit 619.1
JDK-8338307	Additional WebKit 619.1 fixes from WebKitGTK 2.44.3
JDK-8340208	Additional WebKit 619.1 fixes from WebKitGTK 2.44.4
JDK-8341920	Intermittent WebKit build failure on Windows generating PDB files in 619.1
JDK-8343136	Change JavaFX release version to 21.0.6 in jfx21u

Issue ID	Summary
JDK-8343630	Pass AccessControlContext to/from WebKit as opaque object

# 6. Updates to Third Party Libraries

This release does not contain any changes in the third party libraries.

# 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 21.0.6+10  
Release Notes

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