



Azul Zulu builds of OpenJDK

Azul Zulu 22 General Availability

Release Notes

Revision 1.2

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Revision History

Revision	Date	Description
0.1	March 19, 2024	Initial version of the document.
1.0	March 19, 2024	Initial release.
1.1	March 26, 2024	Added note about fix for macOS.
1.2	April 3, 2024	Added support for Zulu 21 and 22 on Amazon Linux 2023.

Release Details

This release is a General Availability release of Azul Zulu 22. The following table describes which Azul Zulu versions are published with this release.

Azul Zulu Version (*)	JDK Version	JavaFX Version
22.28.91 (CA)	22.0.0+36	22.0.0+102
22.28.92 (SA)		
22.28.93 [1] (CA)		
22.28.94 [1] (SA)		

1. Alpine Linux (ARM 64-bit) and Builds with CRaC

(*) Azul provides two types of distribution packages for each Java version:

- **SA** distributions are tested, certified, and commercially supported Azul Zulu Builds of OpenJDK. Azul ensures that the software that uses the Accessible APIs of the product doesn't have to include specific licenses and that such use doesn't contaminate the code or intellectual property of such software with any license requirements.
- **CA** are Azul Zulu Builds of OpenJDK that are free to download and use.

NOTE

Both SA and CA distributions may contain Early Access builds noted with `-ea-` in their filename. Early Access builds may not be TCK certified.

What's New

OpenJDK

OpenJDK 22 is a Short Term Support (STS) release that will be supported by Azul until September 2024 as indicated on our ["Support Roadmap"](#). This version brings a lot of major new features and contains many general fixes, performance improvements, and extensions of earlier incubator and preview features.

All the [fixes and enhancements included in OpenJDK 22](#) are listed in this release notes.

Check out [the community podcast](#) where the changes included in OpenJDK 22, and the evolution process of the OpenJDK project are discussed.

Finalized New Features

The following JEPs are included in this release:

- [423](#): Region Pinning for G1
- [454](#): Foreign Function & Memory API
- [456](#): Unnamed Variables & Patterns
- [458](#): Launch Multi-File Source-Code Programs

Incubator and Preview Features

The following JEPs are included in this release, but can only be used with the additional `--enable-preview` runtime flag:

- [447](#): Statements before super(...) (Preview)
- [457](#): Class-File API (Preview)
- [459](#): String Templates (Second Preview)
- [460](#): Vector API (Seventh Incubator)
- [461](#): Stream Gatherers (Preview)
- [462](#): Structured Concurrency (Second Preview)

- [463](#): Implicitly Declared Classes and Instance Main Methods (Second Preview)
- [464](#): Scoped Values (Second Preview)

CRaC Support Included

Version 22 is also available with [CRaC support](#).



JavaFX Support








This release includes [fixes and enhancements](#) related to the JavaFX functionality.

Supported Platforms

This section provides information about the operating systems that are supported in this release of Azul Zulu.

Some versions of Azul Zulu are available in different packages for specific platforms, as indicated in this overview table with:

-  : Build of OpenJDK without OpenJFX
-  : Build of OpenJDK without and with OpenJFX

Operating System	Azul Zulu 22
Windows (x86 64-bit)	
Windows Server 2022	
Windows Server 2019	
Windows Server 2016	
Windows Client 11	
Windows Client 10	
Linux (x86 64-bit)	
RHEL 9.x	
RHEL 8.x	

RHEL 7.x	✓
SLES 15	✓
SLES 12	✓
CentOS Stream	✓
Ubuntu 22.04	✓
Ubuntu 20.04	✓
Ubuntu 18.04	✓
Debian 12	✓
Debian 11	✓
Debian 10	✓
Debian 9	✓
Alpine Linux 3.11 or later	✓
Linux (ARM 64-bit)	
Ubuntu 20.04	✓
Alpine Linux 3.11 or later	✓
MacOS (x86)	
macOS 12+	✗
MacOS (Apple Silicon)	
macOS 12+	✗

Known Issues

Java Processes get Killed with macOS 14.4 on Apple Silicon Systems

NOTE

UPDATE March 26, 2024: The issue was addressed in macOS 14.4.1, and it's now safe to update your macOS to this version.

The macOS 14.4 update on aarch64 platforms (Apple M-processors) contains a severe

regression that has a critical impact on a wide range of applications, including JDK.

Due to a sudden change within macOS 14.4 regarding memory protection management, the OpenJDK implementation now receives unexpected signals in some situations. This can cause the Java process running a Java application to exit immediately without warning.

This issue impacts Java versions 8 to 22. Notably, it was absent in the early access versions of macOS 14.4. There is no workaround for this issue in OpenJDK, so Java users on macOS 14 are advised to hold off on upgrading to macOS 14.4. Azul and the OpenJDK community are working with Apple to fix this regression in macOS ([JDK-8327860](#)).

Fixed Issues

OpenJDK Fixes and Enhancements

The following table describes the OpenJDK changes implemented in this release.

OpenJDK Patch ID	Synopsis
JDK-8302017	Allocate BadPaddingException only if it will be thrown
JDK-8320597	RSA signature verification fails on signed data that does not encode params correctly
JDK-4346610	Adding JSeparator to JToolBar "pushes" buttons added after separator to edge
JDK-4365952	Cannot disable JFileChooser
JDK-4516654	Metalworks Demo: Window title not displayed fully in Low Vision Theme
JDK-4622866	javax.swing.text.Document.remove(int, int) has a misleading picture
JDK-4800398	(ch spec) Clarify Channels.newChannel(InputStream) spec
JDK-4893524	Swing drop targets should call close() on transferred readers and streams
JDK-4964430	(spec) missing IllegalStateException exception requirement for javax.crypto.Cipher.doFinal

OpenJDK Patch ID	Synopsis
JDK-5066247	Refine the spec of equals() and hashCode() for j.text.Format classes
JDK-5108458	JTable does not properly layout its content
JDK-6211126	ICC_ColorSpace.toCIEXYZ(float[]): NPE is not specified
JDK-6211139	ICC_ColorSpace.toRGB(float[]): NPE is not specified
JDK-6211202	ColorSpace.getInstance(int): IAE is not specified
JDK-6228794	java.text.ChoiceFormat pattern behavior is not well documented.
JDK-6333341	[BI] Doc: java.text.BreakIterator class specification is unclear
JDK-6355567	AdobeMarkerSegment causes failure to read valid JPEG
JDK-6361826	(reflect) provide method for mapping strings to class object for primitive types
JDK-6376959	Algorithm for Inheriting Method Comments seems to go not as documented
JDK-6415065	Submenu is shown on wrong screen in multiple monitor environment
JDK-6442919	JFileChooser popup still left-to-right when JFileChooser is set to right-to-left
JDK-6450193	After the first Serialization, JTableHeader does not uninstall its UI
JDK-6664309	Docking point of a floating toolbar changes after closing
JDK-6875229	Wrong placement of icons in JTabbedPane in Nimbus
JDK-6928542	Chinese characters in RTF are not decoded
JDK-6934301	Support directed inheriting of class comments with @inheritDoc
JDK-6956385	URLConnection.getLastModified() leaks file handles for jar:file and file: URLs
JDK-6960866	[Fmt-Ch] ChoiceFormat claims impossible and unimplemented functionality
JDK-6983726	Reimplement MethodHandleProxies.asInterfaceInstance

OpenJDK Patch ID	Synopsis
JDK-7061097	[Doc] Inconsistency between the spec and the implementation for DateFormat.Field
JDK-7083187	Class CSS.CssValue is missing implementations of equals() and hashCode()
JDK-8005622	Inherited Javadoc missing @throws
JDK-8006421	GraphicsConfiguration of a frame is changed when the frame is moved to another screen
JDK-8009550	PlatformPCSC should load versioned so
JDK-8027711	Unify wildcarding syntax for CompileCommand and CompileOnly
JDK-8030815	Code roots are not accounted for in region prediction
JDK-8038244	(fs) Check return value of malloc in Java_sun_nio_fs_AixNativeDispatcher_getmntctl()
JDK-8039165	[Doc] MessageFormat null locale generates NullPointerException
JDK-8041488	Locale-Dependent List Patterns
JDK-8047998	Abort the vm if MaxNewSize is not the same as NewSize when MaxHeapSize is the same as InitialHeapSize
JDK-8062795	(fs) Files.setPermissions requires read access when NOFOLLOW_LINKS specified
JDK-8073061	(fs) Files.copy(foo, bar, REPLACE_EXISTING) deletes bar even if foo is not readable
JDK-8074211	javax.sound.midi: Error with send System Exclusive messages of different length
JDK-8077371	Binary files in JAXP test should be removed
JDK-8114830	(fs) Files.copy fails due to interference from something else changing the file system
JDK-8136895	Writer not closed with disk full error, file resource leaked
JDK-8139208	[macosx] Issue with setExtendedState of JFrame

OpenJDK Patch ID	Synopsis
JDK-8139392	JInternalFrame has incorrect padding
JDK-8140326	G1: Consider putting regions where evacuation failed into next collection set
JDK-8140527	JInternalFrame has incorrect title button width
JDK-8154846	SwingNode does not resize when content size constraints are changed
JDK-8155902	DataOutputStream should clarify that it might write primitive types as multiple byte groups
JDK-8156889	ListKeychainStore.sh fails in some virtualized environments
JDK-8159527	Collections mutator methods should all be marked as optional operations
JDK-8161536	sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java fails with ProviderException
JDK-8166900	If you wrap a JTable in a JLayer, the cursor is moved to the last row of table by you press the page down key.
JDK-8167252	Some of Charset.availableCharsets() does not contain itself
JDK-8169475	WheelModifier.java fails by timeout
JDK-8170817	G1: Returning MinTLABSize from unsafe_max_tlab_alloc causes TLAB flapping
JDK-8175874	Update Security.insertProviderAt to specify behavior when requested position is out of range.
JDK-8187591	-Werror turns incubator module warning to an error
JDK-8187655	jdk.lambda.vm.InterfaceAccessFlagsTest.testPrivateMethodCall needs update after nestmates support
JDK-8189685	need PerfMemory class update and a volatile_static_field support in VMStructs
JDK-8191460	crash in Annotate with duplicate declaration and annotation processing enabled
JDK-8193513	add support for printing a stack trace on class loading

OpenJDK Patch ID	Synopsis
JDK-8194743	Compiler implementation for Statements before super()
JDK-8199149	Improve the exception message thrown by VarHandle of unsupported operation
JDK-8209595	MonitorVmStartTerminate.java timed out
JDK-8210375	StackWalker::getCallerClass throws UnsupportedOperationException
JDK-8210410	Refactor java.util.Currency:i18n shell tests to plain java tests
JDK-8210428	4.7.9.1: Class type signatures vs binary names
JDK-8210807	Printing a JTable with a JScrollPane prints table without rows populated
JDK-8211238	@Deprecated JFR event
JDK-8214248	(fs) Files:mismatch spec clarifications
JDK-8219357	G1: G1GCPhaseTimes::debug_phase uses unnecessary ResourceMark
JDK-8219567	Name of first parameter of RandomAccessFile(String,String) is inconsistent
JDK-8219652	[aix] Tests failing with JNI attach problems.
JDK-8219945	refactor/simplify structure of docs generated by javadoc
JDK-8221633	StartFlightRecording: consider moving mention of multiple comma-separated parameters to the front
JDK-8222329	Readable read(CharBuffer) does not specify that 0 is returned when there is no remaining space in buffer
JDK-8224261	JProgressBar always with border painted around it
JDK-8225220	When the Tab Policy is checked,the scroll button direction displayed incorrectly.
JDK-8225377	type annotations are not visible to javac plugins across compilation boundaries
JDK-8227229	Deprecate the launcher -Xdebug/-debug flags that have not done anything since Java 6
JDK-8227529	With malformed --app-image the error messages are awful

OpenJDK Patch ID	Synopsis
JDK-8232839	JDI AfterThreadDeathTest.java failed due to "FAILED: Did not get expected InterruptedException on a StepRequest.enable()"
JDK-8237542	JMapHeapConfigTest.java doesn't work with negative jlong values
JDK-8239508	JFR: @RemoveFields
JDK-8240567	MethodTooLargeException thrown while creating a jlink image
JDK-8241800	Disable IPV6_MULTICAST_ALL to prevent interference from all multicast groups
JDK-8242152	SA does not include StackMapTables when dumping .class files
JDK-8244289	fatal error: Possible safepoint reached by thread that does not allow it
JDK-8246280	Refine API to model sealed classes and interfaces in javax.lang.model
JDK-8248149	G1: change _cleaning_claimed from int to bool
JDK-8249832	java/util/zip/DataDescriptorSignatureMissing.java uses @ignore w/o bug-id
JDK-8250269	Replace ATTRIBUTE_ALIGNED with alignas
JDK-8250667	MIDI sysex over USB scrambled when reply length matches previous message
JDK-8254566	Clarify the spec of ClassLoader::getClassLoadingLock for non-parallel capable loader
JDK-8254693	Add Panama feature to pass heap segments to native code
JDK-8257076	os::scan_pages is empty on all platforms
JDK-8258970	Disabled JPasswordField foreground color is wrong with GTK LAF
JDK-8261837	SIGSEGV in ciVirtualCallTypeData::translate_from
JDK-8261894	Remove support for UseSHM
JDK-8261930	New document for output generated by Standard Doclet
JDK-8262742	(fs) Add Path::resolve with varargs string

OpenJDK Patch ID	Synopsis
JDK-8263256	Test java/net/Inet6Address/serialize/Inet6AddressSerializationTest.java fails due to dynamic reconfigurations of network interface during test
JDK-8264899	C1: -XX:AbortVMOnException does not work if all methods in the call stack are compiled with C1 and there are no exception handlers
JDK-8266242	java/awt/GraphicsDevice/CheckDisplayModes.java failing on macOS 11 ARM
JDK-8267502	JDK-8246677 caused 16x performance regression in SynchronousQueue
JDK-8267509	Improve IllegalAccessException message to include the cause of the exception
JDK-8267532	C2: Profile and prune untaken exception handlers
JDK-8268622	Performance issues in javac <code>Name</code> class
JDK-8268829	Provide an optimized way to walk the stack with Class object only
JDK-8268916	Tests for AffirmTrust roots
JDK-8269393	store/load order not preserved when handling memory pool due to weakly ordered memory architecture of aarch64
JDK-8269957	facilitate alternate impls of NameTable and Name
JDK-8271268	Fix Javadoc links for Stream.mapMulti
JDK-8272147	Consolidate preserved marks handling with other STW collectors
JDK-8272215	Add InetAddress methods for parsing IP address literals
JDK-8273131	Update the java manpage markdown source for JFR filename expansion
JDK-8274122	java/io/File/createTempFile/SpecialTempFile.java fails in Windows 11
JDK-8275889	Search dialog has redundant scrollbars
JDK-8277954	Replace use of monitors with explicit locks in the JDK LDAP provider implementation
JDK-8279254	PKCS9Attribute SigningTime always encoded in UTFTIME
JDK-8280120	[IR Framework] Add attribute to @IR to enable/disable IR matching based on the architecture

OpenJDK Patch ID	Synopsis
JDK-8280482	Window transparency bug on Linux
JDK-8280743	HSDB "Monitor Cache Dump" command might throw NPE
JDK-8281169	Expand discussion of elements and types
JDK-8281455	Change JVM options with small ranges from 64 to 32 bits, for gc_globals.hpp
JDK-8281658	Add a security category to the java -XshowSettings option
JDK-8282712	VMConnection.open() does not detect if VM failed to be created, resulting in NPE
JDK-8282726	java/net/vthread/BlockingSocketOps.java timeout/hang intermittently on Windows
JDK-8282797	<code>CompileCommand</code> Parsing Errors Should Exit VM
JDK-8283140	Remove unused encoding classes/operands from x86_64.ad
JDK-8283214	[macos] Screen magnifier does not show the magnified text for JComboBox
JDK-8284447	Remove the unused NestedClassWriter interface
JDK-8284493	Improve computeNextExponential tail performance and accuracy
JDK-8285368	Overhaul doc-comment inheritance
JDK-8285447	StackWalker minimal batch size should be optimized for getCallerClass
JDK-8286789	Test forceEarlyReturn002.java timed out
JDK-8287061	Support for rematerializing scalar replaced objects participating in allocation merges
JDK-8287284	C2: loop optimization performs split_thru_phi infinitely many times
JDK-8287325	AArch64: fix virtual threads with -XX:UseBranchProtection=pac-ret
JDK-8287843	File::getCanonicalFile doesn't work for \\?\C:\ style paths DOS device paths
JDK-8288158	Add an anchor to each subcommand option on jfr html page

OpenJDK Patch ID	Synopsis
JDK-8288660	JavaDoc should be more helpful if it doesn't recognize a tag
JDK-8288899	java/util/concurrent/ExecutorService/CloseTest.java failed with "InterruptedException: sleep interrupted"
JDK-8288936	Wrong lock ordering writing G1HeapRegionTypeChange JFR event
JDK-8290005	com/sun/jndi/ldap/LdapCBPropertiesTest.java failing with NullPointerException
JDK-8291065	Creating a VarHandle for a static field triggers class initialization
JDK-8292692	Move MethodCounters inline functions out of method.hpp
JDK-8292704	sun/security/tools/jarsigner/compatibility/Compatibility.java use wrong key size for EC
JDK-8293069	Make -XX:+Verbose less verbose
JDK-8293114	JVM should trim the native heap
JDK-8293176	SSLEngine handshaker does not send an alert after a bad parameters
JDK-8293511	Javadoc style issues in the foreign API
JDK-8293713	java/net/httpclient/BufferingSubscriberTest.java fails in timeout, blocked in submission publisher
JDK-8293850	need a largest_committed metric for each category of NMT's output
JDK-8293972	runtime/NMT/NMTInitializationTest.java#default_long-off failed with "Suspiciously long bucket chains in lookup table."
JDK-8294156	Allow PassFailJFrame.Builder to create test UI
JDK-8294158	HTML formatting for PassFailJFrame instructions
JDK-8294316	SA core file support is broken on macosx-x64 starting with macOS 12.x
JDK-8294401	Update jfr man page to include recently added features
JDK-8294427	Check boxes and radio buttons have rendering issues on Windows in High DPI env
JDK-8294535	Add screen capture functionality to PassFailJFrame

OpenJDK Patch ID	Synopsis
JDK-8294699	Launcher causes lingering busy cursor
JDK-8294969	Convert jdk.jdeps javap to use the Classfile API
JDK-8294979	test/jdk/tools/jlink 3 test classes use ASM library
JDK-8294980	test/jdk/java/lang/invoke 15 test classes use experimental bytecode library
JDK-8294985	SSLEngine throws IAE during parsing of X500Principal
JDK-8295058	test/langtools/tools/javac 116 test classes uses com.sun.tools.classfile library
JDK-8295059	test/langtools/tools/javap 12 test classes use com.sun.tools.classfile library
JDK-8295068	SSLEngine throws NPE parsing CertificateRequests
JDK-8295159	DSO created with -ffast-math breaks Java floating-point arithmetic
JDK-8295191	IR framework timeout options expect ms instead of s
JDK-8295210	IR framework should not whitelist -XX:-UseTLAB
JDK-8295343	sun/security/pkcs11 tests fail on Linux RHEL 8.6 and newer
JDK-8295391	Add discussion of binary ϵ decimal conversion issues
JDK-8295555	Primitive wrapper caches could be <code>@Stable</code>
JDK-8295795	hsdis does not build with binutils 2.39+
JDK-8295894	Remove SECOM certificate that is expiring in September 2023
JDK-8295919	java.security.MessageDigest.isEqual does not adhere to <code>@implNote</code>
JDK-8296240	Augment discussion of test tiers in doc/testing.md
JDK-8296246	Update Unicode Data Files to 15.1.0
JDK-8296250	Update ICU4J to Version 74.1
JDK-8296631	NSS tests failing on OL9 linux-aarch64 hosts

OpenJDK Patch ID	Synopsis
JDK-8296972	[macos13] java/awt/Frame/MaximizedTolconified/MaximizedTolconified.java: getExtendedState() != 6 as expected.
JDK-8297346	[umbrella] Add @sealedGraph doclet tag where applicable
JDK-8297777	Convert jdk.jlink StringSharingPlugin to use Class File API
JDK-8298095	Refine implSpec for SegmentAllocator
JDK-8298116	5.5: ConstantValue can initialize non-final fields
JDK-8298443	Remove expired flags in JDK 22
JDK-8298992	runtime/NMT/SummarySanityCheck.java failed with "Total committed (MMMMMM) did not match the summarized committed (NNNNNN)"
JDK-8299052	ViewportOverlapping test fails intermittently on Win10 & Win11
JDK-8299058	AssertionError in sun.net.httpserver.ServerImpl when connection is idle
JDK-8299560	Assertion failed: currentQueryIndex >= 0 && currentQueryIndex < numberOfJavaProcessesAtInitialization
JDK-8299614	Shenandoah: STW mark should keep nmethod/oops referenced from stack chunk alive
JDK-8299658	C1 compilation crashes in LinearScan::resolve_exception_edge
JDK-8299790	os::print_hex_dump is racy
JDK-8299825	Move StdoutLog and StderrLog to LogConfiguration
JDK-8299915	Remove ArrayAllocatorMallocLimit and associated code
JDK-8300051	assert(JvmtiEnvBase::environments_might_exist()) failed: to enter event controller, JVM TI environments must exist
JDK-8300639	8.4.8: Link to 9.1.3 for discoverability of inheritance rules
JDK-8300663	java/util/concurrent/SynchronousQueue/Fairness.java failed with "Error: fair=true i=0 j=1"
JDK-8301247	JPackage app-image exe launches multiple exe's in JDK 17+
JDK-8301310	The SendRawSysexMessage test may cause a JVM crash

OpenJDK Patch ID	Synopsis
JDK-8301327	convert assert to guarantee in Handle_IDiv_Exception
JDK-8301341	LinkedTransferQueue does not respect timeout for poll()
JDK-8301379	Verify TLS_ECDH_* cipher suites cannot be negotiated
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-8301492	Modernize equals() method of ResourceBundle.CacheKey and Bundles.CacheKey
JDK-8301569	jmod list option and jimage list --help not interpreted correctly on turkish locale
JDK-8301606	JFileChooser file chooser details view "size" label cut off in Metal Look&Feel
JDK-8301639	JDI and JDWP specs should clarify potential deadlock issues with method invocation
JDK-8301686	TLS 1.3 handshake fails if server_name doesn't match resuming session
JDK-8301846	Invalid TargetDataLine after screen lock when using JFileChooser or COM library
JDK-8301856	Generated .spec file for RPM installers uninstalls desktop launcher on update
JDK-8301991	Convert l10n properties resource bundles to UTF-8 native
JDK-8301996	Move field resolution information out of the cpCache
JDK-8301997	Move method resolution information out of the cpCache
JDK-8302233	HSS/LMS: keytool and jarsigner changes
JDK-8302351	"assert(!JavaThread::current()␣is_interp_only_mode() !nm␣method()␣is_continuation_enter_intrinsic() ContinuationEntry::is_interpreted_call(return_pc)) failed: interp_only_mode but not in enterSpecial interpreted entry" in fixup_callers_callsite
JDK-8302449	Issues with type parameters links in generic type links

OpenJDK Patch ID	Synopsis
JDK-8302497	4.9.2, 4.10.1: Clarify verification rules about uninitialized instances
JDK-8302865	Illegal bytecode for break from if with instanceof pattern matching condition
JDK-8302987	Add uniform and spatially equidistributed bounded double streams to RandomGenerator
JDK-8303056	Improve support for Unicode characters and digits in JavaDoc search
JDK-8303086	SIGSEGV in <code>JavaThread::is_interp_only_mode()</code>
JDK-8303134	JFR: Missing stack trace during chunk rotation stress
JDK-8303279	C2: crash in <code>SubTypeCheckNode::sub()</code> at IGVN split if
JDK-8303465	KeyStore of type KeychainStore, provider Apple does not show all trusted certificates
JDK-8303513	C2: <code>LoadKlassNode::make</code> fails with 'expecting TypeKlassPtr'
JDK-8303525	Refactor/cleanup <code>open/test/jdk/javax/rmi/ssl/SSLSocketParametersTest.java</code>
JDK-8303549	[AIX] <code>TestNativeStack.java</code> is failing with exit value 1
JDK-8303737	C2: Load can bypass subtype check that enforces it's from the right object type
JDK-8303773	Replace "main.wrapper" with "test.thread.factory" property in test code
JDK-8303815	Improve Metaspace test speed
JDK-8303852	<code>current_stack_region()</code> gets called twice unnecessarily
JDK-8303916	<code>ThreadLists.java</code> inconsistent results
JDK-8303920	Avoid calling out to python in <code>DataDescriptorSignatureMissing</code> test
JDK-8303959	<code>tools/jpackage/share/RuntimePackageTest.java</code> fails with <code>java.lang.AssertionError</code> missing files
JDK-8304006	jlink should create the jimage file in the native endian for the target platform

OpenJDK Patch ID	Synopsis
JDK-8304020	Speed up test/jdk/java/util/zip/ZipFile/TestTooManyEntries.java and clarify its purpose
JDK-8304292	Memory leak related to ClassLoader::update_class_path_entry_list
JDK-8304403	Remove unused methods in RangeCheckElimination::Bound
JDK-8304446	javap --system flag doesn't override system APIs
JDK-8304503	Modernize debugging jvm args in demo netbeans projects
JDK-8304684	Memory leak in DirectivesParser::set_option_flag
JDK-8304701	Request with timeout aborts later in-flight request on HTTP/1.1 cxn
JDK-8304835	jdk/jfr/event/oldobject/TestArrayInformation.java fails with "Could not find event with class ... as (leak) object"
JDK-8304839	Move TestScaffold.main() to the separate class DebugeeWrapper
JDK-8304885	Reuse stale data to improve DNS resolver resiliency
JDK-8304939	os::win32::exit_process_or_thread should be marked noreturn
JDK-8304954	SegmentedCodeCache fails when using large pages
JDK-8304956	Update KeyStore.getDefaultType() specification to return pkcs12 as fallback
JDK-8305104	Remove the old core reflection implementation
JDK-8305321	Remove unused exports in java.desktop
JDK-8305341	Alignment should be enforced by alignas instead of compiler specific attributes
JDK-8305506	Add support for fractional values of SafepointTimeoutDelay
JDK-8305507	Add support for grace period before AbortVMOnSafepointTimeout triggers
JDK-8305593	Add @spec tags in java.desktop
JDK-8305636	Expand and clean up predicate classes and move them into separate files

OpenJDK Patch ID	Synopsis
JDK-8305637	Remove Opaque1 nodes for Parse Predicates and clean up useless predicate elimination
JDK-8305645	System Tray icons get corrupted when Windows primary monitor changes
JDK-8305667	Some fonts installed in user directory are not detected on Windows
JDK-8305671	javac rejects semicolons in compilation units with no imports
JDK-8305753	Allow JIT compilation for -Xshare:dump
JDK-8305765	CompressedClassPointers.java is unreliable due to ASLR
JDK-8305814	Update Xalan Java to 2.7.3
JDK-8305825	getBounds API returns wrong value resulting in multiple Regression Test Failures on Ubuntu 23.04
JDK-8305931	jdk/jfr/jcmd/TestJcmdDumpPathToGCRoots.java failed with "Expected chains but found none"
JDK-8305962	update jcstress to 0.16
JDK-8305971	NPE in JavacProcessingEnvironment for missing enum constructor body
JDK-8306040	HttpResponseInputStream.available() returns 1 on empty stream
JDK-8306055	Add a built-in Catalog to JDK XML module
JDK-8306116	Update CLDR to Version 44.0
JDK-8306136	[vectorapi] Intrinsics of VectorMask.lanelSet()
JDK-8306308	(ch) Writer created by Channels::newWriter may lose data
JDK-8306441	Two phase segmented heap dump
JDK-8306446	java/lang/management/ThreadMXBean/Locks.java transient failures
JDK-8306561	Possible out of bounds access in print_pointer_information
JDK-8306582	Remove MetaspaceShared::exit_after_static_dump()
JDK-8306584	Start of release updates for JDK 22
JDK-8306585	Add SourceVersion.RELEASE_22
JDK-8306586	Add source 22 and target 22 to javac

OpenJDK Patch ID	Synopsis
JDK-8306607	Apply 80-column output to javac supported version output
JDK-8306629	4.1: Allow v66.0 class files for Java SE 22
JDK-8306632	Add a JDK Property for specifying DTD support
JDK-8306650	Improve control of stack maps generation in Classfile API
JDK-8306785	fix deficient spliterators for Sequenced Collections
JDK-8306882	(fs) Path.toRealPath(LinkOption.NOFOLLOW_LINKS) fails when "../.." follows a link
JDK-8306914	Implement JEP 458: Launch Multi-File Source-Code Programs
JDK-8306922	IR verification fails because IR dump is chopped up
JDK-8306980	Generated docs should contain correct Legal Documents
JDK-8307144	namedParams in XECParameters and EdDSAParameters can be private final
JDK-8307145	windowsaccessbridge.dll erroneously includes private methods in its C API
JDK-8307168	Inconsistent validation and handling of --system flag arguments
JDK-8307184	Incorrect/inconsistent specification and implementation for Elements.getDocComment
JDK-8307185	pkcs11 native libraries make JNI calls into java code while holding GC lock
JDK-8307312	Replace "int which" with "int cp_index" in constantPool
JDK-8307352	AARCH64: Improve itable_stub
JDK-8307356	Metaspace: simplify BinList handling
JDK-8307408	Some jdk/sun/tools/jhsdb tests don't pass test JVM args to the debuggee JVM
JDK-8307462	[REDO] VmObjectAlloc is not generated by intrinsics methods which allocate objects
JDK-8307468	CDS Lambda Proxy classes are regenerated in dynamic dump

OpenJDK Patch ID	Synopsis
JDK-8307508	IndirectVarHandle.isAccessModeSupported throws NPE
JDK-8307526	[JFR] Better handling of tampered JFR repository
JDK-8307620	[IR Framework] Readme mentions JTREG_WHITE_LIST_FLAGS instead of JTREG_WHITELIST_FLAGS
JDK-8307625	Redundant receiver null check in LibraryCallKit::generate_method_call
JDK-8307766	Linux: Provide the option to override the timer slack
JDK-8307788	vmTestbase/gc/gctests/LargeObjects/large003/TestDescription.java timed out
JDK-8307907	[ppc] Remove RTM locking implementation
JDK-8307927	C2: "malformed control flow" with irreducible loop
JDK-8307934	JRobot.moveMouseTo must access component on EDT
JDK-8308042	[macOS] Developer ID Application Certificate not picked up by jpackage if it contains UNICODE characters
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-8308144	Uncontrolled memory consumption in SSLFlowDelegate.Reader
JDK-8308184	Launching java with large number of jars in classpath with java.protocol.handler.pkgs system property set can lead to StackOverflowError
JDK-8308247	JLS changes for Statements before super() (Preview)
JDK-8308286	Fix clang warnings in linux code
JDK-8308336	Test java/net/URLConnection/URLConnectionExpectContinueTest.java failed: java.net.BindException: Address already in use
JDK-8308340	C2: Idealize Fma nodes
JDK-8308398	Move SunEC crypto provider into java.base

OpenJDK Patch ID	Synopsis
JDK-8308399	Recommend --release when -source and -target are misused
JDK-8308429	jvmti/StopThread/stopthrd007 failed with "NoClassDefFoundError: Could not initialize class jdk.internal.misc.VirtualThreads"
JDK-8308444	LoadStoreNode::result_not_used() is too conservative
JDK-8308452	Extend internal Architecture enum with byte order and address size
JDK-8308453	Convert JKS test keystores in test/jdk/javax/net/ssl/etc to PKCS12
JDK-8308456	Update javac tool page for -proc:full
JDK-8308463	Refactor regenerated class handling in lambdaFormInvokers.cpp
JDK-8308464	Shared array class should not always be loaded in boot loader
JDK-8308474	DSA does not reset SecureRandom when initSign is called again
JDK-8308479	[s390x] Implement alternative fast-locking scheme
JDK-8308499	Test vmTestbase/nsk/jdi/MethodExitRequest/addClassExclusionFilter/filter001/TestDescription.java failed: VMDisconnectedException
JDK-8308540	On Kerberos TGT referral, if krb5.conf is missing realm, bad exception message
JDK-8308591	JLine as the default Console provider
JDK-8308592	Framework for CA interoperability testing
JDK-8308593	Add KEEPALIVE Extended Socket Options Support for Windows
JDK-8308603	Removing do_pending_ref/enclosing_ref from MetaspaceClosure
JDK-8308606	C2 SuperWord: remove alignment checks when not required
JDK-8308609	java/lang/ScopedValue/StressStackOverflow.java fails with "-XX:-VMContinuations"
JDK-8308614	Enabling JVMTI ClassLoad event slows down vthread creation by factor 10
JDK-8308633	Increase precision of timestamps in g1 log

OpenJDK Patch ID	Synopsis
JDK-8308643	Incorrect value of 'used' jvmstat counter
JDK-8308645	Javadoc of FFM API needs to be refreshed
JDK-8308646	Typo in ConstantValueAttribute
JDK-8308659	Use CSS scroll-margin instead of flexbox layout in API documentation
JDK-8308662	Update the "java" tool specification for CompileOnly
JDK-8308694	Clarify reversed() default methods' implementation requirements
JDK-8308715	Create a mechanism for Implicitly Declared Class javadoc
JDK-8308749	C2 failed: regular loops only (counted loop inside infinite loop)
JDK-8308753	Class-File API transition to Preview
JDK-8308762	Metaspace leak with Instrumentation.retransform
JDK-8308780	Fix the Java Integer types on Windows
JDK-8308808	SunMSCAPI public keys returns internal key array
JDK-8308812	SequenceLayout::withElementCount(long elementCount) doesn't throw IllegalArgumentException - if elementCount < 0 for some cases
JDK-8308843	Generational ZGC: Remove gc/z/TestHighUsage.java
JDK-8308850	Change JVM options with small ranges that get -Wconversion warnings to 32 bits
JDK-8308855	ARM32: TestBooleanVector crashes after 8300257
JDK-8308858	FFM API and strings
JDK-8308869	C2: use profile data in subtype checks when profile has more than one class
JDK-8308899	Introduce Classfile context and improve Classfile options
JDK-8308903	Print detailed info for Java objects in -Xlog:cds+map
JDK-8308966	Add intrinsic for float/double modulo for x86 AVX2 and AVX512
JDK-8308984	Relativize last_sp (and top_frame_sp) in interpreter frames
JDK-8308988	Update JShell manpage to include TOOLING description

OpenJDK Patch ID	Synopsis
JDK-8308995	Update Network IO JFR events to be static mirror events
JDK-8309032	jpackage does not work for module projects unless --module-path is specified
JDK-8309034	NoClassDefFoundError when initializing Long\$LongCache
JDK-8309065	Move the logic to determine archive heap location from CDS to G1 GC
JDK-8309067	gtest/AsyncLogGtest.java fails again in stderrOutput_vm
JDK-8309070	Test javax/swing/JTabbedPane/6355537/bug6355537.java failed: Disabled tabs should not have prelight
JDK-8309088	security/infra/java/security/cert/CertPathValidator/certification/AmazonCA.java fails
JDK-8309109	AArch64: [TESTBUG] compiler/intrinsics/sha/cli/TestUseSHA3IntrinsicsOptionOnSupportedCPU.java fails on Neoverse N2 and V1
JDK-8309118	HttpClient: Add more tests for 100 ExpectContinue with HTTP/2
JDK-8309130	x86_64 AVX512 intrinsics for Arrays.sort methods (int, long, float and double arrays)
JDK-8309140	ResourceHashtable failed "assert(~(_allocation_t[0] allocation_mask) == (uintptr_t)this) failed: lost resource object"
JDK-8309142	Refactor test/langtools/tools/javac/versions/Versions.java
JDK-8309196	Remove Thread.countStackFrames
JDK-8309203	C2: remove copy-by-value of GrowableArray for InterfaceSet
JDK-8309204	Obsolete DoReserveCopyInSuperWord
JDK-8309209	C2 failed "assert(_stack_guard_state == stack_guard_reserved_disabled) failed: inconsistent state"
JDK-8309214	sun/security/pkcs11/KeyStore/CertChainRemoval.java fails after 8301154
JDK-8309228	Clarify EXPERIMENTAL flags comment in hotspot/share/runtime/globals.hpp

OpenJDK Patch ID	Synopsis
JDK-8309238	jdk/jfr/tool/TestView.java failed with "exitValue = 134"
JDK-8309240	Array classes should be stored in dynamic CDS archive
JDK-8309258	RISC-V: Add riscv_hwprobe syscall
JDK-8309266	C2: assert(final_con == (jlong)final_int) failed: final value should be integer
JDK-8309296	jdk/jfr/event/runtime/TestAgentEvent.java fails due to "missing" dynamic JavaAgent
JDK-8309302	java/net/Socket/Timeouts.java fails with AssertionError on test temporal post condition
JDK-8309303	jdk/internal/misc/VM/RuntimeArguments test ignores jdk/internal/vm/options
JDK-8309305	sun/security/ssl/SSLSocketImpl/BlockedAsyncClose.java fails with jtreg test timeout
JDK-8309306	G1: Move is_obj_dead from HeapRegion to G1CollectedHeap
JDK-8309335	Get rid of use of reflection to call Thread.isVirtual() in nsk/jdi/EventManager/stepRequests/stepreq001t.java
JDK-8309356	Read files in includedir in alphanumeric order
JDK-8309390	[JVMCI] improve copying system properties into libgraal
JDK-8309398	ValueLayout:: arrayElementVarHandle doesn't throws UnsupportedOperationException - if byteAlignment() > byteSize()
JDK-8309403	Serial: Remove the useless adaptive size policy in GenCollectedHeap
JDK-8309408	Thread.sleep cleanup
JDK-8309462	[AIX] vmTestbase/nsk/jvmti/RunAgentThread/agentthr001/TestDescription.java crashing due to empty while loop
JDK-8309463	IGV: Dynamic graph layout algorithm
JDK-8309467	Pattern dominance should be adjusted

OpenJDK Patch ID	Synopsis
JDK-8309468	Remove jvmti Allocate locker test case
JDK-8309471	Limit key characters in static index pages
JDK-8309475	Test java/foreign/TestByteBuffer.java fails: a problem with msync (aix)
JDK-8309498	[JVMCI] race in CallSiteTargetValue recording
JDK-8309499	javac fails to report compiler.err.no.java.lang with annotation processing enabled
JDK-8309502	RISC-V: String.indexOf intrinsic may produce misaligned memory loads
JDK-8309511	Regression test ExtralImportSemicolon.java refers to the wrong bug
JDK-8309531	Incorrect result with unwrapped iotaShuffle.
JDK-8309538	G1: Move total collection increment from Cleanup to Remark
JDK-8309545	Thread.interrupted from virtual thread needlessly resets interrupt status
JDK-8309549	com/sun/tools/attach/warnings/DynamicLoadWarningTest.java fails on AIX
JDK-8309566	Migrate away from TagletWriter and TagletWriterImpl
JDK-8309583	AArch64: Optimize firstTrue() when amount of elements < 8
JDK-8309591	Socket.setOption(TCP_QUICKACK) uses wrong level
JDK-8309595	Allow javadoc to process unnamed classes
JDK-8309599	WeakHandle and OopHandle release should clear obj pointer
JDK-8309601	[JVMCI] AMD64#getLargestStorableKind returns incorrect mask kind
JDK-8309605	StubRoutines are not used by SA
JDK-8309612	[REDO] JDK-8307153 JVMTI GetThreadState on carrier should return STATE_WAITING
JDK-8309613	[Windows] hs_err files sometimes miss information about the code containing the error
JDK-8309621	[XWayland][Screencast] screen capture failure with sun.java2d.uiScale other than 1

OpenJDK Patch ID	Synopsis
JDK-8309627	Incorrect sorting of DirtyCardQueue buffers
JDK-8309632	JDK 21 RDP1 L10n resource files update
JDK-8309637	runtime/handshake/HandshakeTimeoutTest.java fails with "has not cleared handshake op" and SIGILL
JDK-8309660	C2: failed: XMM register should be 0-15 (UseKNLSetting and ConvF2HF)
JDK-8309663	test fails "assert(check_alignment(result)) failed: address not aligned: 0x00000008baadbabe"
JDK-8309665	Simplify Arrays.copyOf/-Range methods
JDK-8309667	TLS handshake fails because of ConcurrentModificationException in PKCS12KeyStore.engineGetEntry
JDK-8309670	java -help output for --module-path / -p is incomplete
JDK-8309671	Avoid using jvmci.Compiler property to determine if Graal is enabled
JDK-8309673	Refactor ref_at methods in SA ConstantPool
JDK-8309675	Generational ZGC: compiler/gcbarriers/UnsafeIntrinsicsTest.java fails in nmt_commit
JDK-8309685	Fix -Wconversion warnings in assembler and register code
JDK-8309686	inconsistent URL for https://www.unicode.org/reports/tr35
JDK-8309688	Data race on java.io.ClassCache\$CacheRef.strongReferent
JDK-8309692	Fix -Wconversion warnings in javaClasses
JDK-8309697	[TESTBUG] Remove "@requires vm.flagless" from jtreg vectorization tests
JDK-8309702	Exclude java/lang/ScopedValue/StressStackOverflow.java from JTREG_TEST_THREAD_FACTORY=Virtual runs
JDK-8309703	AIX build fails after JDK-8280982
JDK-8309717	C2: Remove Arena::move_contents usage
JDK-8309727	Assert privileges while reading the jdk.incubator.vector.VECTOR_ACCESS_OOB_CHECK system property

OpenJDK Patch ID	Synopsis
JDK-8309733	[macOS, Accessibility] VoiceOver: Incorrect announcements of JRadioButton
JDK-8309740	Expand timeout windows for tests in JDK-8179502
JDK-8309745	Problem list open client tests failing on Ubuntu_23.04
JDK-8309752	com/sun/jdi/SetLocalWhileThreadInNative.java fails with virtual test thread factory due to OpaqueFrameException
JDK-8309753	Include array classes in the output of -XX:+PrintSharedArchiveAndExit
JDK-8309756	Occasional crashes with pipewire screen capture on Wayland
JDK-8309757	com/sun/jdi/ReferrersTest.java fails with virtual test thread factory
JDK-8309760	ProblemList serviceability/jvmti/vthread/FollowReferences/VThreadStackRefTest.java #default with ZGC
JDK-8309761	Leak class loader constraints
JDK-8309763	Move tests in test/jdk/sun/misc/URLClassPath directory to test/jdk/jdk/internal/loader
JDK-8309778	java/nio/file/Files/CopyAndMove.java fails when using second test directory
JDK-8309808	BytecodeTracer prints wrong BSM for invokedynamic
JDK-8309811	BytecodePrinter cannot handle unlinked classes
JDK-8309814	[IR Framework] Dump socket output string in which IR encoding was not found
JDK-8309819	Clarify API note in Class::getName and MethodType::toMethodDescriptorString
JDK-8309838	Classfile API Util.toBinaryName and other cleanup
JDK-8309847	FrameForm and RegisterForm constructors should initialize all members
JDK-8309852	G1: Remove unnecessary assert_empty in G1ParScanThreadStateSet destructor

OpenJDK Patch ID	Synopsis
JDK-8309853	StructuredTaskScope.join description improvements
JDK-8309854	ciReplay TestServerVM test fails with Graal
JDK-8309859	Make editorial changes to spec change document for JEPs 440&441
JDK-8309862	Unsafe list operations in JfrStringPool
JDK-8309867	redundant class field RSAPadding.md
JDK-8309870	Using -proc:full should be considered requesting explicit annotation processing
JDK-8309871	jdk/jfr/api/consumer/recordingstream/TestSetEndTime.java timed out
JDK-8309878	Reduce inclusion of resolvedIndyEntry.hpp
JDK-8309882	LinkedHashMap adds an errant serializable field
JDK-8309883	no <code>@since</code> info in com.sun.tools.javac package-info.java, Main.java
JDK-8309884	missing <code>@since</code> tags in <code>com.sun.source.*</code>
JDK-8309889	[s390] Missing return statement after calling <code>jump_to_native_invoker</code> method in <code>generate_method_handle_dispatch</code> .
JDK-8309890	TestStringDeduplicationInterned.java waits for the wrong condition
JDK-8309893	Integrate ReplicateB/S/I/L/F/D nodes to Replicate node
JDK-8309894	compiler/vectorapi/VectorLogicalOpIdentityTest.java fails on SVE system with UseSVE=0
JDK-8309899	Rename <code>PtrQueueSet::buffer_size()</code>
JDK-8309902	C2: <code>assert(false)</code> failed: Bad graph detected in <code>build_loop_late</code> after JDK-8305189
JDK-8309907	Remove unused <code>_print_gc_overhead_limit_would_be_exceeded</code>
JDK-8309909	remove test <code>nsk.jvmti test objmonusage006</code> from <code>ProblemList-Virtual.txt</code>
JDK-8309910	Introduce <code>jdk.internal.net.http.HttpConnection.getSNIServerNames()</code> method
JDK-8309928	JFR: View issues

OpenJDK Patch ID	Synopsis
JDK-8309937	Add @sealedGraph for some Panama FFM interfaces
JDK-8309939	HttpClient should not use Instant.now() as Instant source for deadlines
JDK-8309953	Strengthen and optimize oopDesc age methods
JDK-8309955	Matcher uses @since {@inheritDoc}
JDK-8309956	Shenandoah: Strengthen the mark word check in string dedup
JDK-8309957	Rename JDK-8309595 test to conform
JDK-8309958	Incorrect @since tag format in Container.java
JDK-8309959	JFR: Display N/A for missing data amount
JDK-8309960	ParallelGC young collections very slow in DelayInducer
JDK-8309964	Use directed inheritDoc for javax.lang.model API
JDK-8309974	some JVMCI tests fail when VM options include -XX:+EnableJVMCI
JDK-8309976	Add microbenchmark for stressing code cache
JDK-8309978	[x64] Fix useless padding
JDK-8309979	BootstrapMethods attribute is missing in class files recreated by SA
JDK-8310011	Arena with try-with-resources is slower than it should be
JDK-8310015	ZGC: Unbounded asynchronous unmapping can lead to running out of address space
JDK-8310019	MIPS builds are broken after JDK-8304913
JDK-8310020	MacroAssembler::call_VM(_leaf) doesn't consistently check for conflict with C calling convention.
JDK-8310027	Fix -Wconversion warnings in nmethod and compiledMethod related code
JDK-8310031	Parallel: Implement better work distribution for large object arrays in old gen
JDK-8310033	Clarify return value of Java Time compareTo methods
JDK-8310047	Add UTF-32 based Charsets into StandardCharsets
JDK-8310049	Refactor Charset tests to use JUnit

OpenJDK Patch ID	Synopsis
JDK-8310053	VarHandle and slice handle derived from layout are lacking alignment check
JDK-8310054	ScrollPane insets are incorrect
JDK-8310061	Note if implicit annotation processing is being used
JDK-8310066	Improve test coverage for JVMTI GetThreadState on carrier and mounted vthread
JDK-8310067	Restore javac manpage updates
JDK-8310070	Test: javax/net/ssl/DTLS/DTLSWontNegotiateV10.java timed out
JDK-8310076	Reduce inclusion of bytecodeStream.hpp
JDK-8310105	LoongArch64 builds are broken after JDK-8304913
JDK-8310106	sun.security.ssl.SSLHandshake.getHandshakeProducer() incorrectly checks handshakeConsumers
JDK-8310107	os::trace_page_sizes_for_requested_size should name alignment as requested page size
JDK-8310108	Skip ReplaceCriticalClassesForSubgraphs when EnableJVMCI is specified
JDK-8310110	Shenandoah: Trace page sizes
JDK-8310118	Resource files should be moved to appropriate directories
JDK-8310126	C1: Missing receiver null check in Reference::get intrinsic
JDK-8310128	Switch with unnamed patterns erroneously non-exhaustive
JDK-8310130	C2: assert(false) failed: scalar_input is neither phi nor a matchin reduction
JDK-8310133	Effectively final condition not enforced in guards for binding variables from the same case
JDK-8310134	NMT: thread count in Thread section of VM.native_memory output confusing with virtual threads
JDK-8310143	RandomCommandsTest fails due to unexpected VM exit code after JDK-8282797
JDK-8310146	Removing unused PerfLongVariant::_sampled

OpenJDK Patch ID	Synopsis
JDK-8310157	Allow void-returning filters for MethodHandles::collectCoordinates
JDK-8310159	Bulk copy with Unsafe::arrayCopy is slower compared to memcpy
JDK-8310170	Use sp's argument to improve performance of outputStream::indent and remove SP_USE_TABS
JDK-8310182	DateTimeFormatter date formats (ISO_LOCAL_DATE) separated with hyphen, not dash
JDK-8310187	Improve Generational ZGC jtreg testing
JDK-8310191	com/sun/tools/attach/warnings/DynamicLoadWarningTest.java second failure on AIX
JDK-8310192	RISC-V: Merge vector min & max instructs with similar match rules
JDK-8310194	Generational ZGC: Lock-order asserts in JVMTI IterateThroughHeap
JDK-8310200	Update the index page for specs
JDK-8310201	Reduce verbose locale output in -XshowSettings launcher option
JDK-8310211	serviceability/jvmti/thread/GetStackTrace/getstacktr03/getstacktr03.java failing
JDK-8310220	IGV: dump graph after each IGVN step at level 4
JDK-8310225	Reduce inclusion of oopMapCache.hpp and generateOopMap.hpp
JDK-8310228	Improve error reporting for uncaught native exceptions on Windows
JDK-8310232	java.time.Clock\$TickClock.millis() fails in runtime when tick is 1 microsecond
JDK-8310233	Fix THP detection on Linux
JDK-8310234	Refactor Locale tests to use JUnit
JDK-8310238	[test bug] javax/swing/JTableHeader/6889007/bug6889007.java fails
JDK-8310239	Add missing cross modifying fence in nmethod entry barriers
JDK-8310241	OffsetDateTime compareTo redundant computation
JDK-8310242	Clarify the name parameter to Class::forName

OpenJDK Patch ID	Synopsis
JDK-8310264	In PhaseChaitin::Split defs and phis are leaked
JDK-8310265	(process) jspawnhelper should not use argv[0]
JDK-8310266	JFR: Refactor after 'view' command
JDK-8310267	Javadoc for Class#isPrimitive() is incorrect regarding Class objects for primitives
JDK-8310268	RISC-V: misaligned memory access in String.Compare intrinsic
JDK-8310275	Bug in assignment operator of ReservedMemoryRegion
JDK-8310276	RISC-V: Make use of shadd macro-assembler function when possible
JDK-8310297	assert(static_cast<T1>(result) == thing) with ctw
JDK-8310299	C2: 8275201 broke constant folding of array store check in some cases
JDK-8310308	IR Framework: check for type and size of vector nodes
JDK-8310311	Serial: move Generation::contribute_scratch to DefNewGeneration
JDK-8310314	Misplaced "unnamed classes are a preview feature and are disabled by default" error
JDK-8310316	Failing HotSpot Compiler directives are too verbose
JDK-8310326	Incorrect position of the synthetic unnamed class
JDK-8310330	HttpClient: debugging interestOps/readyOps could cause exceptions and smaller cleanup
JDK-8310331	JitTester: Exclude java.lang.Math.random
JDK-8310332	Fix -Wconversion warnings in MethodData
JDK-8310334	[XWayland][Screencast] screen capture error message in debug
JDK-8310335	JFR: Modernize collections and switch statements
JDK-8310354	G1: Annotate G1MMUTracker::when_sec with const
JDK-8310355	Move the stub test from initialize_final_stubs() to test/hotspot/gtest
JDK-8310380	Handle problems in core-related tests on macOS when codesign tool does not work

OpenJDK Patch ID	Synopsis
JDK-8310388	Shenandoah: Auxiliary bitmap is not madvised for THP
JDK-8310405	Linker.Option.firstVariadicArg should specify which index values are valid
JDK-8310425	[JVMCI] compiler/runtime/TestConstantDynamic: lookupConstant returned an object of incorrect type: null
JDK-8310453	Update javadoc of java.lang.Object
JDK-8310458	Fix build failure caused by JDK-8310049
JDK-8310459	[BACKOUT] 8304450: [vectorapi] Refactor VectorShuffle implementation
JDK-8310460	Remove jdeps -profile option
JDK-8310489	New test runtime/ClassInitErrors/TestStackOverflowDuringInit.java failed
JDK-8310494	Do not include constantPool.hpp from instanceKlass.hpp
JDK-8310502	Optimization for j.l.Long.fastUUID()
JDK-8310510	Remove WordsPerLong
JDK-8310512	Cleanup indentation in jfc files
JDK-8310530	PipedOutputStream.flush() accesses sink racyly
JDK-8310537	Fix -Wconversion warnings in gcUtil.hpp
JDK-8310540	G1: Verification should use raw oop decode functions
JDK-8310541	G1: Remove redundant check in G1Policy::need_to_start_conc_mark
JDK-8310549	avoid potential leaks in KeystoreImpl.m related to JNU_CHECK_EXCEPTION early returns
JDK-8310550	Adjust references to rt.jar
JDK-8310551	vmTestbase/nsk/jdb/interrupt/interrupt001/interrupt001.java timed out due to missing prompt
JDK-8310561	JFR: Unify decodeDescriptors(String, String)
JDK-8310571	Use inline @return tag on java.util.Objects
JDK-8310575	no <code>@since</code> for StandardDoclet
JDK-8310577	Fix -Wconversion warnings in interpreter and oops

OpenJDK Patch ID	Synopsis
JDK-8310581	retry_class_loading_during_parsing() is not used
JDK-8310584	GetThreadState reports blocked and runnable for pinned suspended virtual threads
JDK-8310585	GetThreadState spec mentions undefined JVMTI_THREAD_STATE_MONITOR_WAITING
JDK-8310586	ProblemList java/lang/ScopedValue/StressStackOverflow.java#default with virtual threads on linux-all
JDK-8310591	Missing <code>@since</code> tags in java.lang.foreign
JDK-8310596	Utilize existing method frame::interpreter_frame_monitor_size_in_bytes()
JDK-8310606	Fix signed integer overflow, part 3
JDK-8310618	Test serviceability/sa/ClhsdbDumpclass.java fails after 8242152: 'StackMapTable:' missing from stdout/stderr
JDK-8310628	GcInfoBuilder.c missing JNI Exception checks
JDK-8310629	java/security/cert/CertPathValidator/OCSP/OCSPTimeout.java fails with RuntimeException Server not ready
JDK-8310631	test/jdk/sun/nio/cs/TestCharsetMapping.java is spuriously passing
JDK-8310643	Misformatted copyright messages in FFM
JDK-8310644	Make panama memory segment close use async handshakes
JDK-8310645	CancelledResponse.java does not use HTTP/2 when testing the HttpClient
JDK-8310646	Javadoc around prototype-less functions might be incorrect
JDK-8310656	RISC-V: <i>builtin_clear_cache</i> can fail silently.
JDK-8310661	JFR: Replace JVM.getJVM() with JVM
JDK-8310673	[JVMCI] batch compilation for libgraal should work the same way as for C2
JDK-8310676	add note about unnamed module to Elements.getAllModuleElements
JDK-8310682	No package-info (and @since) for package jdk.nio.mapmode

OpenJDK Patch ID	Synopsis
JDK-8310683	Refactor StandardCharset/standard.java to use JUnit
JDK-8310687	JDK-8303215 is incomplete
JDK-8310727	C2: *_of() methods in PhaselterGVN should use uint for the node index
JDK-8310731	Configure a javax.net.ssl.SNIMatcher for the HTTP/1.1 test servers in java/net/httpclient tests
JDK-8310735	Build failure after JDK-8310577 with GCC8
JDK-8310743	assert(reserved_rgn != nullptr) failed: Add committed region, No reserved region found
JDK-8310807	java/nio/channels/DatagramChannel/Connect.java timed out
JDK-8310814	Clarify the targetName parameter of Lookup::findClass
JDK-8310815	Clarify the name of the main class, services and provider classes in module descriptor
JDK-8310816	GcInfoBuilder float/double signature mismatch
JDK-8310818	Refactor more Locale tests to use JUnit
JDK-8310828	java.sql java.sql.rowset packages have no @since info
JDK-8310829	guarantee(!HAS_PENDING_EXCEPTION) failed in ExceptionTranslation::doit
JDK-8310830	typo in the parameter name in @throws of ClassDesc::ofDescriptor
JDK-8310835	Address gaps in -Xlint:serial checks
JDK-8310838	Correct range notations in MethodTypeDesc specification
JDK-8310844	[AArch64] C1 compilation fails because monitor offset in OSR buffer is too large for immediate
JDK-8310848	Convert ClassDesc and MethodTypeDesc to be stored in static final fields
JDK-8310849	Pattern matching for instanceof and arrayType cleanup in j.l.invoke and j.l.reflect
JDK-8310861	Improve location reporting for javac serial lint warnings

OpenJDK Patch ID	Synopsis
JDK-8310863	Build failure after JDK- 8305341
JDK-8310868	Thread.interrupt() method's javadoc has an incorrect {@link}
JDK-8310873	Re-enable locked_create_entry symbol check in runtime/NMT/CheckForProperDetailStackTrace.java for RISC-V
JDK-8310874	Runthese30m crashes with klass should be in the placeholders during verification
JDK-8310886	C2 SuperWord: Two nodes should be isomorphic if they are loop invariant but pinned at different nodes outside the loop
JDK-8310890	Normalize identifier names
JDK-8310892	ScopedValue throwing StructureViolationException should be clearer
JDK-8310902	(fc) FileChannel.transferXXX async close and interrupt issues
JDK-8310906	Fix -Wconversion warnings in runtime, oops and some code header files.
JDK-8310907	Add missing file
JDK-8310908	Non-standard @since tag in <code>com.sun.java.accessibility.util.package-info</code>
JDK-8310909	java.io.InvalidObjectException has redundant @since tag
JDK-8310913	Move ReferencedKeyMap to jdk.internal so it may be shared
JDK-8310914	Remove 2 malformed java/foreign ProblemList entries
JDK-8310919	runtime/ErrorHandling/TestAbortVmOnException.java times out due to core dumps taking a long time on OSX
JDK-8310920	Fix -Wconversion warnings in command line flags
JDK-8310921	Fix -Wconversion warnings from GenerateOopMap
JDK-8310922	java/lang/Class/forName/ForNameNames.java fails after being added by JDK-8310242
JDK-8310923	Refactor Currency tests to use JUnit
JDK-8310929	Optimization for Integer.toString

OpenJDK Patch ID	Synopsis
JDK-8310933	Copying from runtime image to application image should not follow symlinks
JDK-8310946	G1: Refactor G1Policy::next_gc_should_be_mixed
JDK-8310948	Fix ignored-qualifiers warning in Hotspot
JDK-8310949	RISC-V: Initialize UseUnalignedAccesses
JDK-8310974	NMT: Arena diffs miss the scale
JDK-8310975	java.util.FormatItemModifier should not be protected
JDK-8310978	JFR events SocketReadEvent/SocketWriteEvent for Socket adaptor ops
JDK-8310982	jdk/internal/util/ArchTest.java fails after JDK-8308452 failed with Method isARM()
JDK-8310987	Missing @since tag(s) in java/util/logging/EventManager.java
JDK-8310988	Missing @since tags in java.management.rmi
JDK-8310991	missing @since tags in java.xml
JDK-8310993	Missing @since tags in jdk.attach
JDK-8310995	missing @since tags in 36 jdk.dynalink classes
JDK-8310997	missing @since tags in jdk.httpserver
JDK-8310999	Add @since info in jdk.jsobject files
JDK-8311000	missing @since info in jdk.management
JDK-8311001	missing @since info in jdk.net
JDK-8311006	missing @since info in jdk.xml.dom
JDK-8311007	jdk/jfr/tool/TestView.java can't find event
JDK-8311020	Typo cleanup in Classfile API
JDK-8311023	assert(false) failed: EA: missing memory path
JDK-8311026	Some G1 specific tests do not set -XX:+UseG1GC
JDK-8311031	JTable header border vertical lines are not aligned with data grid lines

OpenJDK Patch ID	Synopsis
JDK-8311032	Empty value for java.protocol.handler.pkgs system property can lead to unnecessary classloading attempts of protocol handlers
JDK-8311033	[macos] PrinterJob does not take into account Sides attribute
JDK-8311034	Fix typo in javac man page
JDK-8311035	CDS should not use dump time JVM narrow Klass encoding to pre-compute Klass ids
JDK-8311038	Incorrect exhaustivity computation
JDK-8311040	JFR: RecordedThread::getOSThreadId() should return -1 if thread is virtual
JDK-8311046	ProblemList gc/z/TestHighUsage.java with Generational ZGC
JDK-8311064	Windows builds fail without precompiled headers after JDK-8310728
JDK-8311074	RISC-V: Fix -Wconversion warnings in some code header files
JDK-8311077	Fix -Wconversion warnings in jvmti code
JDK-8311081	KeytoolReaderP12Test.java fail on localized Windows platform
JDK-8311084	Add typeSymbol() API for applicable constant pool entries
JDK-8311086	Remove jtreg/gc/startup_warnings
JDK-8311087	PhiNode::wait_for_region_igvn should break early
JDK-8311092	Please disable runtime/jni/nativeStack/TestNativeStack.java on armhf
JDK-8311102	Write annotations in the classfile dumped by SA
JDK-8311104	dangling-gsl warning in libwixhelper.cpp
JDK-8311109	tautological-compare warning in awt_Win32GraphicsDevice.cpp
JDK-8311113	Remove invalid pointer cast and clean up setLabel() in awt_MenuItem.cpp
JDK-8311115	Type in java.lang.reflect.AccessFlag.METHOD_PARAMETER
JDK-8311122	Fix typos in java.base
JDK-8311125	Remove unused parameter 'phase' in AllocateNode::Ideal_allocation
JDK-8311130	AArch64: Sync SVE related CPU features with VM options

OpenJDK Patch ID	Synopsis
JDK-8311145	Remove check_with_errno duplicates
JDK-8311160	[macOS, Accessibility] VoiceOver: No announcements on JRadioButtonMenuItem and JCheckBoxMenuItem
JDK-8311162	Simplify and modernize equals and hashCode for java.net
JDK-8311170	Simplify and modernize equals and hashCode in security area
JDK-8311172	Classfile.PREVIEW_MINOR_VERSION doesn't match that read from class files
JDK-8311178	JMH tests don't scale well when sharing output buffers
JDK-8311179	Generational ZGC: gc/z/TestSmallHeap.java failed with OutOfMemoryError
JDK-8311180	Remove unused unneeded definitions from globalDefinitions
JDK-8311183	Remove unused mapping test files
JDK-8311186	ProblemList javax/management/remote/mandatory/subjectDelegation/SubjectDelegation1Test.java on linux-aarch64
JDK-8311188	Simplify and modernize equals and hashCode in java.text
JDK-8311189	disable gc/z/TestHighUsage.java
JDK-8311190	ProblemList javax/management/remote/mandatory/connection/DeadLockTest.java with virtual threads on windows-x64
JDK-8311191	ProblemList javax/management/remote/mandatory/connection/ConnectionTest.java with virtual threads on windows-x64
JDK-8311193	ProblemList vmTestbase/nsk/jdb/interrupt/interrupt001/interrupt001.java on linux-all
JDK-8311195	ProblemList vmTestbase/nsk/jvmti/scenarios/capability/CM03/cm03t001/TestDescription.java with Xcomp on macosx-x64

OpenJDK Patch ID	Synopsis
JDK-8311198	jcstress shouldn't be executed concurrently
JDK-8311207	Cleanup for Optimization for UUID.toString
JDK-8311215	[BACKOUT] JDK-8047998 Abort the vm if MaxNewSize is not the same as NewSize when MaxHeapSize is the same as InitialHeapSize
JDK-8311218	fatal error: stuck in JvmtiVTMSTransitionDisabler::VTMS_transition_disable
JDK-8311220	Optimization for StringLatin UpperLower
JDK-8311222	strace004 can fail due to unexpected stack length after JDK-8309408
JDK-8311239	GC: Remove trailing blank lines in source files
JDK-8311240	Eliminate usage of testcases.jar from TestMetaSpaceLog.java
JDK-8311245	JFR: Remove t.printStackTrace() in PeriodicEvents
JDK-8311249	Remove unused MemAllocator::obj_memory_range
JDK-8311261	[AIX] TestAlwaysPreTouchStacks.java fails due to java.lang.RuntimeException: Did not find expected NMT output
JDK-8311264	JavaDoc index comparator is not transitive
JDK-8311279	TestStressIGVNAndCCP.java failed with different IGVN traces for the same seed
JDK-8311285	report some fontconfig related environment variables in hs_err file
JDK-8311290	Improve java.lang.ref.Cleaner rendered documentation
JDK-8311301	MethodExitTest may fail with stack buffer overrun
JDK-8311380	Prepare java.desktop for C++17
JDK-8311489	Remove unused dirent_md files
JDK-8311508	ZGC: RAIL use of IntelJccErratumAlignment
JDK-8311511	Improve description of NativeLibrary JFR event
JDK-8311514	Incorrect regex in TestMetaSpaceLog.java
JDK-8311517	Add performance information to ArrayList javadoc

OpenJDK Patch ID	Synopsis
JDK-8311528	Remove IDE specific SuppressWarnings
JDK-8311536	JFR TestNativeMemoryUsageEvents fails in huge pages configuration
JDK-8311538	CDS InternSharedString test fails on huge pages host - cannot find shared string
JDK-8311541	JavaThread::print_jni_stack doesn't support native stacks on all platforms
JDK-8311546	Certificate name constraints improperly validated with leading period
JDK-8311548	AArch64: [ZGC] Many tests fail with "assert(allocates2(pc)) failed: not in CodeBuffer memory" on some CPUs
JDK-8311556	GetThreadLocalStorage not working for vthreads mounted during JVMTI attach
JDK-8311557	[JVMCI] deadlock with JVMTI thread suspension
JDK-8311565	Remove spec change docs for JEPs 440 and 441 from the closed repo
JDK-8311575	Fix invalid format parameters
JDK-8311581	Remove obsolete code and comments in TestLVT.java
JDK-8311583	tableswitch broken by JDK-8310577
JDK-8311585	Add JRadioButtonMenuItem to bug8031573.java
JDK-8311588	C2: RepeatCompilation compiler directive does not choose stress seed randomly
JDK-8311591	Add SystemModulesPlugin test case that splits module descriptors with new local variables defined by DedupSetBuilder
JDK-8311592	ECKeySizeParameterSpec causes too many exceptions on third party providers
JDK-8311593	Minor doc issue in MemorySegment::copy
JDK-8311596	Add separate system properties for TLS server and client for maximum chain length
JDK-8311604	Simplify NOCOOPS requested addresses for archived heap objects

OpenJDK Patch ID	Synopsis
JDK-8311606	Change read_icc_profile() to static function in java.desktop/share/native/libjavajpeg/imageioJPEG.c
JDK-8311609	[windows] Native stack printing lacks source information for dynamically loaded dlls
JDK-8311630	[s390] Implementation of Foreign Function & Memory API (Preview)
JDK-8311631	When multiple users run tools/jpackage/share/LicenseTest.java, Permission denied for writing /var/tmp/*.files
JDK-8311639	Replace currentTimeMillis() with nanoTime() in jtreg/gc
JDK-8311645	Memory leak in jspawnhelper spawnChild after JDK-8307990
JDK-8311646	ZGC: LIR_OpZStoreBarrier::_info shadows LIR_Op::_info
JDK-8311647	Memory leak in Java_jdk_internal_org_jline_terminal_impl_jna_linux_CLibraryImpl_ttyname_1r
JDK-8311648	Refactor the Arena/Chunk/ChunkPool interface
JDK-8311653	Modify -XshowSettings launcher behavior
JDK-8311656	Shenandoah: Unused ShenandoahSATBAndRemarkThreadsClosure::_claim_token
JDK-8311663	Additional refactoring of Locale tests to JUnit
JDK-8311666	Disabled tests in test/jdk/sun/java2d/marlin
JDK-8311689	Wrong visible amount in Adjustable of ScrollPane
JDK-8311691	C2: Remove legacy code related to PostLoopMultiversioning
JDK-8311775	[TEST] duplicate verifyHeapDump in several tests
JDK-8311788	ClassLoadUnloadTest fails on AIX after JDK-8193513
JDK-8311792	java/net/httpclient/ResponsePublisher.java fails intermittently with AssertionError: Found some outstanding operations
JDK-8311805	Clean up ScrollPane: drop redundant initialiser, mark scroller final
JDK-8311813	C1: Uninitialized PhiResolver::_loop field

OpenJDK Patch ID	Synopsis
JDK-8311815	Incorrect exhaustivity computation
JDK-8311821	Simplify ParallelGCThreadsConstraintFunc after CMS removal
JDK-8311822	AIX : test/jdk/java/foreign/TestLayouts.java fails because of different output - expected <code>[[i4](struct)]</code> but found <code>[[l4](struct)]</code>
JDK-8311823	JFR: Uninitialized EventEmitter::_thread_id field
JDK-8311825	Duplicate qualified enum constants not detected
JDK-8311847	Fix -Wconversion for assembler.hpp emit_int8,16 callers
JDK-8311862	RISC-V: small improvements to shift immediate instructions
JDK-8311867	StructuredTaskScope.shutdown does not interrupt newly started threads
JDK-8311870	Split CompressedClassPointers from compressedOops.hpp
JDK-8311877	[macos] Add CLI options to provide signing identity directly to codesign and productbuild
JDK-8311879	SA ClassWriter generates invalid invokedynamic code
JDK-8311881	jdk/javax/swing/ProgressMonitor/ProgressTest.java does not show the ProgressMonitorInputStream all the time
JDK-8311902	Concurrency regression in the PBKDF2 key impl of SunJCE provider
JDK-8311906	Improve robustness of String constructors with mutable array inputs
JDK-8311917	MAP_FAILED definition seems to be obsolete in src/java.desktop/unix/native/common/awt/fontpath.c
JDK-8311921	Inform about MaxExpectedDataSegmentSize in case of pthread_create failures on AIX
JDK-8311922	[macOS] right-Option key fails to generate release event
JDK-8311923	TestIRMatching.java fails on RISC-V
JDK-8311926	java/lang/ScopedValue/StressStackOverflow.java takes 9mins in tier1
JDK-8311932	Suboptimal compiled code of nested loop over memory segment
JDK-8311939	Excessive allocation of Matcher.groups array

OpenJDK Patch ID	Synopsis
JDK-8311943	Cleanup usages of toLowerCase() and toUpperCase() in java.base
JDK-8311946	Add support for libgraal specific jtreg tests
JDK-8311961	Update Manual Test Groups for ATR JDK22
JDK-8311964	Some jtreg tests failing on x86 with error 'unrecognized VM options' (C2 flags)
JDK-8311968	Clarify Three-letter time zone IDs in java.util.TimeZone
JDK-8311971	SA's ConstantPool.java uses incorrect computation to read long value in the constant pool
JDK-8311974	Clean up Utils.getBlockTags
JDK-8311976	Inconsistency in usage of CITimeVerbose to generate compilation logs
JDK-8311978	Shenandoah: Create abstraction over heap metrics for heuristics
JDK-8311981	Test gc/stringdedup/TestStringDeduplicationAgeThreshold.java#ZGenerational timed out
JDK-8311986	Disable runtime/os/TestTracePageSizes.java for ShenandoahGC
JDK-8311989	Test java/lang/Thread/virtual/Reflection.java timed out
JDK-8311992	Test java/lang/Thread/virtual/JfrEvents::testVirtualThreadPinned failed
JDK-8312013	avoid UnixConstants.java.template warning: 'linux' is not defined on AIX
JDK-8312014	[s390x] TestSigInfoInHsErrFile.java Failure
JDK-8312018	Improve reservation of class space and CDS
JDK-8312019	Simplify and modernize java.util.BitSet.equals
JDK-8312044	Simplify toolkit Builder/Writer world
JDK-8312049	runtime/logging/ClassLoadUnloadTest can be improved
JDK-8312072	Deprecate for removal the -Xnoagent option
JDK-8312075	FileChooser.win32.newFolder is not updated when changing Locale
JDK-8312077	Fix signed integer overflow, final part

OpenJDK Patch ID	Synopsis
JDK-8312078	[PPC] JcmdScale.java Failing on AIX
JDK-8312082	12.1.4: Typo in non-normative text explaining candidate main methods
JDK-8312089	Simplify and modernize equals, hashCode, and compareTo in java.nio and implementation code
JDK-8312093	Incorrect javadoc comment text
JDK-8312098	Update man page for javadoc
JDK-8312121	Fix -Wconversion warnings in tribool.hpp
JDK-8312126	NullPointerException in CertStore.getCRLs after 8297955
JDK-8312127	FileDescriptor.sync should temporarily increase parallelism
JDK-8312136	Modify runtime/ErrorHandling/TestDwarf.java to split dwarf and decoder testing
JDK-8312140	jdk/jshell tests failed with JDI socket timeouts
JDK-8312147	Dynamic Exception Specification warnings are no longer required after JDK-8311380
JDK-8312163	Crash in dominance check when compiling unnamed patterns
JDK-8312164	Refactor Arrays.hashCode for long, boolean, double, float, and Object arrays
JDK-8312165	Fix typos in java.desktop Swing
JDK-8312166	(dc) DatagramChannel's socket adaptor does not release carrier thread when blocking in receive
JDK-8312174	missing JVMTI events from vthreads parked during JVMTI attach
JDK-8312180	(bf) MappedMemoryUtils passes incorrect arguments to msync (aix)
JDK-8312181	CDS dynamic dump crashes when verifying unlinked class from static archive
JDK-8312182	THPs cause huge RSS due to thread start timing issue
JDK-8312189	ProblemList serviceability/jvmti/vthread/VThreadTLSTest/VThreadTLSTest.java#id1

OpenJDK Patch ID	Synopsis
JDK-8312190	Fix c++11-narrowing warnings in hotspot code
JDK-8312191	ColorConvertOp.filter for the default destination is too slow
JDK-8312194	test/hotspot/jtreg/applications/ctw/modules/jdk_crypto_ec.java cannot handle empty modules
JDK-8312195	Changes in JDK-8284493 use wrong copyright syntax
JDK-8312196	ProblemList test/hotspot/jtreg/applications/ctw/modules/jdk_crypto_ec.java
JDK-8312200	Fix Parse::catch_call_exceptions memory leak
JDK-8312201	Clean up common behavior in "page writers" and "member writers"
JDK-8312203	Improve specification of Array.newInstance
JDK-8312204	unexpected else with statement causes compiler crash
JDK-8312213	Remove unnecessary TEST instructions on x86 when flags reg will already be set
JDK-8312218	Print additional debug information when hitting assert(in_hash)
JDK-8312229	Crash involving yield, switch and anonymous classes
JDK-8312232	Remove sun.jvm.hotspot.runtime.VM.buildLongFromIntsPD()
JDK-8312235	[JVMCI] ConstantPool should not force eager resolution
JDK-8312246	NPE when HSDB visits bad oop
JDK-8312259	StatusResponseManager unused code clean up
JDK-8312262	Klass::array_klass() should return ArrayKlass pointer
JDK-8312293	SIGSEGV in jfr.internal.event.EventWriter.putUncheckedByte after JDK-8312086
JDK-8312306	Add more Reference.reachabilityFence() calls to the security classes using Cleaner
JDK-8312320	Remove javax/rmi/ssl/SSLSocketParametersTest.sh from ProblemList
JDK-8312329	Minimal build failure after JDK-8311541

OpenJDK Patch ID	Synopsis
JDK-8312332	C2: Refactor SWPointer out from SuperWord
JDK-8312392	ARM32 build broken since 8311035
JDK-8312394	[linux] SIGSEGV if kernel was built without hugepage support
JDK-8312395	Improve assertions in growableArray
JDK-8312411	MessageFormat.formatToCharacterIterator() can be improved
JDK-8312414	Make java.util.ServiceLoader.LANG_ACCESS final
JDK-8312415	Expand -Xlint:serial checks to enum constants with specialized class bodies
JDK-8312416	Tests in Locale should have more descriptive names
JDK-8312418	Add Elements.getEnumConstantBody
JDK-8312420	Integrate Graal's blender micro benchmark
JDK-8312428	PKCS11 tests fail with NSS 3.91
JDK-8312433	HttpClient request fails due to connection being considered idle and closed
JDK-8312434	SPECjvm2008/xml.transform with CDS fails with "can't seal package nu.xom"
JDK-8312440	assert(cast != nullptr) failed: must have added a cast to pin the node
JDK-8312443	sun.security should use toLowerCase(Locale.ROOT)
JDK-8312445	Array types in annotation elements show square brackets twice
JDK-8312459	Problem list java/awt/GraphicsDevice/DisplayModes/CycleDMImage.java for macOS
JDK-8312461	JNI warnings in SunMSCApi provider
JDK-8312474	JFR: Improve logging to diagnose event stream timeout
JDK-8312475	org.jline.util.PumpReader signed byte problem
JDK-8312488	tools/jpackage/share/AppLauncherEnvTest.java fails with dynamically linked libstdc++

OpenJDK Patch ID	Synopsis
JDK-8312489	Increase <code>jdk.jar.maxSignatureFileSize</code> default which is too low for JARs such as WhiteSource/Mend unified agent jar
JDK-8312491	Update Classfile API snippets and examples
JDK-8312492	Remove THP sanity checks at VM startup
JDK-8312495	<code>assert(0 ≤ i && i < _len) failed: illegal index after JDK-8287061 on big endian platforms</code>
JDK-8312498	<code>Thread::getState</code> and JVM TI <code>GetThreadState</code> should return <code>TIMED_WAITING</code> virtual thread is timed parked
JDK-8312508	4.10.2.2: fix merging of primitive array types
JDK-8312512	<code>sspi.cpp</code> avoid some NULL checks related to free and delete
JDK-8312521	Unused field <code>LocaleProviderAdapter#defaultLocaleProviderAdapter</code> could be removed
JDK-8312522	Implementation of Foreign Function & Memory API
JDK-8312524	[JVMCI] <code>serviceability/dcmd/compiler/CompilerQueueTest.java</code> fails
JDK-8312525	New test <code>runtime/os/TestTrimNative.java#trimNative</code> is failing: did not see the expected RSS reduction
JDK-8312526	Test <code>dk/jfr/event/oldobject/TestHeapDeep.java</code> failed: Could not find <code>ChainNode</code>
JDK-8312527	(ch) Re-examine use of <code>sun.nio.ch.Invoker.myGroupAndInvokeCount</code>
JDK-8312530	Problemlist <code>runtime/os/TestTrimNative.java</code>
JDK-8312533	JFR: No message for <code>JFR.view</code> when data is missing
JDK-8312535	<code>MidiSystem.getSoundbank()</code> throws unexpected <code>SecurityException</code>
JDK-8312547	Max/Min nodes Value implementation could be improved
JDK-8312555	Ideographic characters aren't stretched by <code>AffineTransform.scale(2, 1)</code>
JDK-8312560	Annotation on Decomposed Record Component in Enhanced For Loop Fails Compilation
JDK-8312569	RISC-V: Missing intrinsics for <code>Math.ceil</code> , <code>floor</code> , <code>rint</code>

OpenJDK Patch ID	Synopsis
JDK-8312570	[TESTBUG] Jtreg compiler/loopopts/superword/TestDependencyOffsets.java fails on 512-bit SVE
JDK-8312572	JDK 21 RDP2 L10n resource files update
JDK-8312574	jdk/jdk/jfr/jvm/TestChunkIntegrity.java fails with timeout
JDK-8312578	Redundant javadoc in X400Address
JDK-8312579	[JVMCI] JVMCI support for virtual Vector API objects
JDK-8312585	Rename DisableTHPStackMitigation flag to THPStackMitigation
JDK-8312591	GCC 6 build failure after JDK-8280982
JDK-8312592	New parentheses warnings after HarfBuzz 7.2.0 update
JDK-8312596	Null pointer access in Compile::TracePhase::~~TracePhase after JDK-8311976
JDK-8312597	Convert TraceTypeProfile to UL
JDK-8312612	Handle WideCharToMultiByte return values
JDK-8312617	SIGSEGV in ConnectionGraph::verify_ram_nodes
JDK-8312619	Strange error message when switching over long
JDK-8312620	WSL Linux build crashes after JDK-8310233
JDK-8312623	SA add NestHost and NestMembers attributes when dumping class
JDK-8312625	Test serviceability/dcmd/vm/TrimLibcHeapTest.java failed: RSS use increased
JDK-8312626	Resolve multiple definition of 'start_timer' when statically linking JDK native libraries with user code
JDK-8312749	Generational ZGC: Tests crash with assert(index == 0 is_power_of_2(index))
JDK-8312777	notifyJvmtiMount before notifyJvmtiUnmount
JDK-8312814	Compiler crash when template processor type is a captured wildcard

OpenJDK Patch ID	Synopsis
JDK-8312818	Incorrect format specifier in a HttpClient log message
JDK-8312821	Javac accepts char literal as template
JDK-8312909	C1 should not inline through interface calls with non-subtype receiver
JDK-8312916	Remove remaining usages of -Xdebug from test/hotspot/jtreg
JDK-8312976	MatchResult produces StringIndexOutOfBoundsException for groups outside match
JDK-8312979	Fix assembler_aarch64.hpp after JDK-8311847
JDK-8312980	C2: "malformed control flow" created during incremental inlining
JDK-8312984	javac may crash on a record pattern with too few components
JDK-8313023	Return value corrupted when using CCS + isTrivial (mainline)
JDK-8313081	MonitoringSupport_lock should be unconditionally initialized after 8304074
JDK-8313087	DerValue::toString should output a hex view of the values in byte array
JDK-8313141	Missing check for os_thread type in os_windows.cpp
JDK-8313155	Problem list some JUnit-based tests in test/jdk/java/lang/invoke
JDK-8313164	src/java.desktop/windows/native/libawt/windows/awt_Robot.cpp GetRGBPixels adjust releasing of resources
JDK-8313174	Create fewer predictable port clashes in management tests
JDK-8313202	MutexLocker should disallow null Mutexes
JDK-8313204	Inconsistent order of sections in generated class documentation
JDK-8313206	PKCS11 tests silently skip execution
JDK-8313207	Remove MetaspaceShared::_has_error_classes
JDK-8313218	Disable RunThese24H testing until JDK-8282357 is fixed.
JDK-8313220	Remove Windows specific workaround in LCMS.c for _snprintf
JDK-8313224	Avoid calling JavaThread::current() in MemAllocator::Allocation constructor

OpenJDK Patch ID	Synopsis
JDK-8313226	Redundant condition test in X509CRLImpl
JDK-8313229	DHEKeySizing.java should be modified to use TLS versions TLSv1, TLSv1.1, TLSv1.2
JDK-8313231	Redundant if statement in ZoneInfoFile
JDK-8313239	InetAddress.getCanonicalHostName may return ip address if reverse lookup fails
JDK-8313248	C2: setScopedValueCache intrinsic exposes nullptr pre-values to store barriers
JDK-8313249	Fix -Wconversion warnings in verifier code
JDK-8313250	Exclude java/foreign/TestByteBuffer.java on AIX
JDK-8313251	Add NativeLibraryLoad event
JDK-8313252	Java_sun_awt_windows_ThemeReader_paintBackground release resources in early returns
JDK-8313253	Rename methods in javadoc Comparators class
JDK-8313256	Exclude failing multicast tests on AIX
JDK-8313258	RuntimeInvisibleTypeAnnotationsAttribute.annotations() API Index out of Bound error
JDK-8313262	C2: Sinking node may cause required cast to be dropped
JDK-8313277	Resolve multiple definition of 'normalize' when statically linking JDK native libraries with user code
JDK-8313290	Misleading exception message from STS.Subtask::get when task forked after shutdown
JDK-8313307	java/util/Formatter/Padding.java fails on some Locales
JDK-8313312	Add missing classpath exception copyright header
JDK-8313316	Disable runtime/ErrorHandling/MachCodeFramesInErrorFile.java on ppc64le
JDK-8313319	[linux] mmap should use MAP_FIXED_NO_REPLACE if available

OpenJDK Patch ID	Synopsis
JDK-8313322	RISC-V: implement MD5 intrinsic
JDK-8313323	javac -g on a java file which uses unnamed variable leads to ClassFormatError when launching that class
JDK-8313345	SuperWord fails due to CMove without matching Bool pack
JDK-8313348	Fix typo in JFormattedTextField: 'it self'
JDK-8313349	Introduce <code>abstract void HtmlDocletWriter.buildPage()</code>
JDK-8313355	javax/management/remote/mandatory/notif/ListenerScaleTest.java failed with "Exception: Failed: ratio=792.2791601423487"
JDK-8313357	Revisit requiring SA tests on OSX to either run as root or use sudo
JDK-8313368	(fc) FileChannel.size returns 0 on block special files
JDK-8313372	[JVMCI] Export vmIntrinsics::is_intrinsic_available results to JVMCI compilers.
JDK-8313394	Array Elements in OldObjectSample event has the incorrect description
JDK-8313402	C1: Incorrect LoadIndexed value numbering
JDK-8313403	Remove unused 'mask' field from JFormattedTextField
JDK-8313404	Fix section label in test/jdk/ProblemList.txt
JDK-8313406	nep_invoker_blob can be simplified more
JDK-8313408	Use SVG for BorderLayout example
JDK-8313419	Template interpreter produces no safepoint check for return bytecodes
JDK-8313421	[JVMCI] avoid locking class loader in CompilerToVM.lookupType
JDK-8313422	test/langtools/tools/javac 144 test classes uses com.sun.tools.classfile library
JDK-8313430	[JVMCI] fatal error: Never compilable: in JVMCI shutdown
JDK-8313435	Clean up unused default methods code
JDK-8313438	[s390x] build broken after JDK-8301996
JDK-8313452	Improve Classfile API attributes handling safety

OpenJDK Patch ID	Synopsis
JDK-8313507	Remove pkcs11/Cipher/TestKATForGCM.java from ProblemList
JDK-8313530	VM build without C2 fails after JDK-8312579
JDK-8313552	Fix -Wconversion warnings in JFR code
JDK-8313554	Fix -Wconversion warnings for ResolvedFieldEntry
JDK-8313564	Fix -Wconversion warnings in classfile code
JDK-8313575	Refactor PKCS11Test tests
JDK-8313576	GCC 7 reports compiler warning in bundled freetype 2.13.0
JDK-8313582	ProblemList failing test on linux x86
JDK-8313593	Generational ZGC: NMT assert when the heap fails to expand
JDK-8313602	increase timeout for jdk/classfile/CorpusTest.java
JDK-8313612	Use JUnit in lib-test/jdk tests
JDK-8313613	Use JUnit in langtools/lib tests
JDK-8313616	support loading library members on AIX in os::dll_load
JDK-8313621	test/jdk/jdk/internal/math/FloatingDecimal/TestFloatingDecimal should use RandomFactory
JDK-8313626	C2 crash due to unexpected exception control flow
JDK-8313631	SA: stack trace printed using "where" command does not show class name
JDK-8313632	ciEnv::dump_replay_data use fclose
JDK-8313633	[macOS] java/awt/dnd/NextDropActionTest/NextDropActionTest.java fails with java.lang.RuntimeException: wrong next drop action!
JDK-8313638	Add test for dump of resolved references
JDK-8313643	Update HarfBuzz to 8.2.2
JDK-8313654	Test WaitNotifySuspendedVThreadTest.java timed out
JDK-8313656	assert(!JvmtiExport::can_support_virtual_threads()) with -XX: -DoJVMVirtualThreadTransitions

OpenJDK Patch ID	Synopsis
JDK-8313657	com.sun.jndi.ldap.Connection.cleanup does not close connections on SocketTimeoutErrors
JDK-8313669	Reduced chance for zero-based nKlass encoding since JDK-8296565
JDK-8313670	Simplify shared lib name handling code in some tests
JDK-8313672	C2: PhaseCCP does not correctly track analysis dependencies involving shift, convert, and mask
JDK-8313676	Amend TestLoadIndexedMismatch test to target intrinsic directly
JDK-8313678	SymbolTable can leak Symbols during cleanup
JDK-8313689	C2: compiler/c2/irTests/scalarReplacement/AllocationMergesTests.java fails intermittently with -XX:-TieredCompilation
JDK-8313691	use close after failing os::fdopen in vmError and ciEnv
JDK-8313693	Introduce an internal utility for the Damerau–Levenshtein distance calculation
JDK-8313697	[XWayland][Screencast] consequent getPixelColor calls are slow
JDK-8313702	Update IANA Language Subtag Registry to Version 2023-08-02
JDK-8313712	[BACKOUT] 8313632: ciEnv::dump_replay_data use fclose
JDK-8313720	C2 SuperWord: wrong result with -XX:+UseVectorCmov -XX:+UseCMoveUnconditionally
JDK-8313722	JFR: Avoid unnecessary calls to Events.from(Recording)
JDK-8313742	ZipFile.getManifestName fails during jar verification for Spring Boot
JDK-8313743	Make fields final in sun.nio.ch
JDK-8313752	InstanceClassFlags::print_on doesn't print the flag names
JDK-8313756	[BACKOUT] 8308682: Enhance AES performance
JDK-8313760	[REDO] Enhance AES performance
JDK-8313765	Invalid CEN header (invalid zip64 extra data field size)
JDK-8313768	Reduce interaction with volatile field in j.u.l.StreamHandler

OpenJDK Patch ID	Synopsis
JDK-8313779	RISC-V: use andn / orn in the MD5 intrinsic
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-8313785	Fix -Wconversion warnings in prims code
JDK-8313791	Fix just zPage.inline.hpp and xPage.inline.hpp
JDK-8313792	Verify 4th party information in src/jdk.internal.le/share/legal/jline.md
JDK-8313795	Fix for JDK-8313564 breaks ppc and s390x builds
JDK-8313796	AsyncGetCallTrace crash on unreadable interpreter method pointer
JDK-8313798	[aarch64] sun/tools/jhsdb/HeapDumpTestWithActiveProcess.java sometimes times out on aarch64
JDK-8313800	AArch64: SA stack walking code having trouble finding sender frame when invoking LambdaForms is involved
JDK-8313804	JDWP support for -Djava.net.preferIPv6Addresses=system
JDK-8313809	String template fails with java.lang.StringIndexOutOfBoundsException if last fragment is UTF16
JDK-8313810	BoxLayout uses <blockquote> instead of list for layout options
JDK-8313811	Improve description of how BoxLayout lays out components
JDK-8313813	Field sun.util.calendar.CalendarDate#forceStandardTime is never set
JDK-8313816	Accessing jmethodID might lead to spurious crashes
JDK-8313854	Some tests in serviceability area fail on localized Windows platform
JDK-8313865	Always true condition in sun.nio.cs.CharsetMapping#readINDEXC2B
JDK-8313873	java/nio/channels/DatagramChannel/SendReceiveMaxSize.java fails on AIX due to small default RCVBUF size and different IPv6 Header interpretation
JDK-8313874	JNI NewWeakGlobalRef throws exception for null arg

OpenJDK Patch ID	Synopsis
JDK-8313875	Use literals instead of static fields in java.util.Math: twoToTheDoubleScaleUp, twoToTheDoubleScaleDown
JDK-8313880	Incorrect copyright header in jdk/java/foreign/TestFree.java after JDK-8310643
JDK-8313882	Fix -Wconversion warnings in runtime code
JDK-8313889	Fix -Wconversion warnings in foreign benchmarks
JDK-8313891	JFR: Incorrect exception message for RecordedObject::getInt
JDK-8313899	JVMCI exception Translation can fail in TranslatedException.<clinit>
JDK-8313901	[TESTBUG] test/hotspot/jtreg/compiler/codecache/CodeCacheFullCountTest.java fails with java.lang.VirtualMachineError
JDK-8313904	[macos] All signing tests which verifies unsigned app images are failing
JDK-8313905	Checked_cast assert in CDS compare_by_loader
JDK-8313922	Remove unused WorkerPolicy::_debug_perturbation
JDK-8313948	Remove unnecessary static fields defaultUpper/defaultLower in sun.net.PortConfig
JDK-8313949	Missing word in GPLv2 license text in StackMapTableAttribute.java
JDK-8313954	Add gc logging to vmTestbase/vm/gc/containers/Combination05
JDK-8313962	G1: Refactor G1ConcurrentMark::_num_concurrent_workers
JDK-8313983	jmod create --target-platform should replace existing ModuleTarget attribute
JDK-8314019	Add gc logging to jdk/jfr/event/gc/detailed/TestZAllocationStallEvent.java
JDK-8314020	Print instruction blocks in byte units
JDK-8314021	HeapDump: Optimize segmented heap file merging phase
JDK-8314022	Problem-list tests failing with jtreg 7.3

OpenJDK Patch ID	Synopsis
JDK-8314024	SIGSEGV in PhaseIdealLoop::build_loop_late_post_work due to bad immediate dominator info
JDK-8314025	Remove JUnit-based test in java/lang/invoke from problem list
JDK-8314041	5.3.5: Clarify meaning of "defining loader" when invoking class resolution
JDK-8314045	ArithmeticException in GaloisCounterMode
JDK-8314056	Remove runtime platform check from frem/drem
JDK-8314059	Remove PKCS7.verify()
JDK-8314061	[JVMCI] DeoptimizeALot stress logic breaks deferred barriers
JDK-8314063	The socket is not closed in Connection::createSocket when the handshake failed for LDAP connection
JDK-8314071	Test java/foreign/TestByteBuffer.java timed out
JDK-8314075	Update JCoV version for JDK 22
JDK-8314076	ICC_ColorSpace#minVal/maxVal have the opposite description
JDK-8314078	HotSpotConstantPool.lookupField() asserts due to field changes in ConstantPool.cpp
JDK-8314080	JNI spec: clarify NewWeakGlobalRef handling of weak global references
JDK-8314085	Fixing scope from benchmark to thread for JMH tests having shared state
JDK-8314094	java/lang/ProcessHandle/InfoTest.java fails on Windows when run as user with Administrator privileges
JDK-8314100	G1: Improve collection set candidate selection code
JDK-8314106	C2: assert(is_valid()) failed: must be valid after JDK-8305636
JDK-8314113	G1: Remove unused G1CardSetInlinePtr::card_at
JDK-8314114	Fix -Wconversion warnings in os code, primarily linux
JDK-8314116	C2: assert(false) failed: malformed control flow after JDK-8305636
JDK-8314117	RISC-V: Incorrect VMReg encoding in RISC64Frame.java
JDK-8314119	G1: Fix -Wconversion warnings in G1CardSetInlinePtr::card_pos_for

OpenJDK Patch ID	Synopsis
JDK-8314120	Add tests for FileDescriptor.sync
JDK-8314121	test tools/jpackage/share/RuntimePackageTest.java#id0 fails on RHEL8
JDK-8314129	Make fields final in java.util.Scanner
JDK-8314136	Test java/net/httpclient/CancelRequestTest.java failed: WARNING: tracker for HttpClientImpl(42) has outstanding operations
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-8314148	Fix variable scope in SunMSCAPI
JDK-8314157	G1: "yielded" is not initialized on some paths after JDK-8140326
JDK-8314161	G1: Fix -Wconversion warnings in G1CardSetConfiguration::_bitmap_hash_mask
JDK-8314163	os::print_hex_dump prints incorrectly for big endian platforms and unit sizes larger than 1
JDK-8314169	Combine related RoundingMode logic in j.text.DigitList
JDK-8314191	C2 compilation fails with "bad AD file"
JDK-8314197	AttachListener::pd_find_operation always returning nullptr
JDK-8314199	Initial size PBEKeyFactory#validTypes is not up-to-date
JDK-8314209	Wrong @since tag for RandomGenerator::equiDoubles
JDK-8314211	Add NativeLibraryUnload event
JDK-8314213	DocLint should warn about unknown standard tags
JDK-8314216	Case enumConstant, pattern compilation fails
JDK-8314220	Configurable InlineCacheBuffer size
JDK-8314226	Series of colon-style fallthrough switch cases with guards compiled incorrectly

OpenJDK Patch ID	Synopsis
JDK-8314233	C2: assert(assertion_predicate_has_loop_opaque_node(iff)) failed: unexpected
JDK-8314236	Overflow in Collections.rotate
JDK-8314240	test/jdk/sun/security/pkcs/pkcs7/SignerOrder.java fails to compile
JDK-8314241	Add test/jdk/sun/security/pkcs/pkcs7/SignerOrder.java to ProblemList
JDK-8314242	Update applications/scimark/Scimark.java to accept VM flags
JDK-8314243	Make VM_Exit::wait_for_threads_in_native_to_block wait for user threads time configurable
JDK-8314244	Incorrect file headers in new tests from JDK-8312597
JDK-8314246	javax/swing/JToolBar/4529206/bug4529206.java fails intermittently on Linux
JDK-8314248	Remove HotSpotConstantPool::isResolvedDynamicInvoke
JDK-8314249	Refactor handling of invokedynamic in JVMCI ConstantPool
JDK-8314260	Unable to load system libraries on Windows when using a SecurityManager
JDK-8314261	Make fields final in sun.net.www
JDK-8314263	Signed jars triggering Logger finder recursion and StackOverflowError
JDK-8314265	Fix -Wconversion warnings in miscellaneous runtime code
JDK-8314268	Missing include in assembler_riscv.hpp
JDK-8314274	G1: Fix -Wconversion warnings around G1CardSetArray::_data
JDK-8314276	Improve PtrQueue API around size/capacity
JDK-8314280	StructuredTaskScope.shutdown should document that the state of completing subtasks is not defined
JDK-8314283	Support for NSS tests on aarch64 platforms
JDK-8314294	Unsafe::allocateMemory and Unsafe::freeMemory are slower than malloc/free

OpenJDK Patch ID	Synopsis
JDK-8314319	LogCompilation doesn't reset lateInlining when it encounters a failure.
JDK-8314320	Mark runtime/CommandLine/ tests as flagless
JDK-8314321	Remove unused field <code>jdk.internal.util.xml.impl.Attrs.mAttrIdx</code>
JDK-8314324	"8311557: [JVMCI] deadlock with JVMTI thread suspension" causes various failures
JDK-8314327	Issues with JShell when using "local" execution engine
JDK-8314330	java/foreign tests should respect vm flags when start new processes
JDK-8314333	Update <code>com/sun/jdi/ProcessAttachTest.java</code> to use <code>ProcessTools.createTestJvm(..)</code>
JDK-8314389	<code>AttachListener::pd_set_flag</code> obsolete
JDK-8314423	Multiple patterns without unnamed variables
JDK-8314426	<code>runtime/os/TestTrimNative.java</code> is failing on slow machines
JDK-8314438	NMT: Performance benchmarks are needed to have a baseline for comparison of improvements
JDK-8314448	Coordinate DocLint and JavaDoc to report on unknown tags
JDK-8314449	Clarify the name of the declaring class of <code>StackTraceElement</code>
JDK-8314452	Explicitly indicate inlining success/failure in <code>PrintInlining</code>
JDK-8314476	<code>TestJstatdPortAndServer.java</code> failed with <code>"java.rmi.NoSuchObjectException: no such object in table"</code>
JDK-8314477	Improve definition of "prototypical type"
JDK-8314481	<code>JDWPTRANSPORT_ERROR_INTERNAL</code> code in <code>socketTransport.c</code> can never be executed
JDK-8314489	Add javadoc index entries for <code>java.lang.Math</code> terms
JDK-8314491	Linux: <code>jexec</code> launched via <code>PATH</code> fails to find <code>java</code>
JDK-8314501	Shenandoah: <code>sun/tools/jhsdb/heapconfig/JMapHeapConfigTest.java</code> fails

OpenJDK Patch ID	Synopsis
JDK-8314502	Change the comparator taking version of <code>GrowableArray::find</code> to be a template method
JDK-8314513	[IR Framework] Some internal IR Framework tests are failing after JDK-8310308 on PPC and Cascade Lake
JDK-8314517	some tests fail in case ipv6 is disabled on the machine
JDK-8314533	ProblemList runtime/cds/appcnds/customLoader/HelloCustom_JFR.java on linux-all with ZGC
JDK-8314550	[macosx-aarch64] serviceability/sa/TestJmapCore.java fails with "sun.jvm.hotspot.debugger.UnmappedAddressException: 801000800"
JDK-8314551	More generic way to handshake GC threads with monitor deflation
JDK-8314569	(fs) Improve normalization of <code>UnixPath</code> for input with trailing slashes
JDK-8314573	G1: Heap resizing at Remark does not take existing eden regions into account
JDK-8314578	Non-verifiable code is emitted when two guards declare pattern variables in colon-switch
JDK-8314580	<code>PhaseldealLoop::transform_long_range_checks</code> fails with assert "was tested before"
JDK-8314588	gc/metaspace/TestMetaspaceInitialization.java failed "assert(capacity_until_gc >= committed_bytes) failed: capacity_until_gc: 3145728 < committed_bytes: 3211264"
JDK-8314604	<code>j.text.DecimalFormat</code> behavior regarding patterns is not clear
JDK-8314610	hotspot can't compile with the latest of gtest because of <iomanip>
JDK-8314611	Provide more explicative error message parsing Currencies
JDK-8314612	<code>TestUnorderedReduction.java</code> fails with <code>-XX:MaxVectorSize=32</code> and <code>-XX:+AlignVector</code>
JDK-8314614	<code>jdk/jshell/ImportTest.java</code> failed with "InternalError: Failed remote listen"
JDK-8314615	<code>VarHandle::get()</code> throws unexpected <code>IllegalArgumentException</code>
JDK-8314618	RISC-V: <code>-XX:MaxVectorSize</code> does not work as expected

OpenJDK Patch ID	Synopsis
JDK-8314621	ClassNotFoundException due to lambda reference to elided anonymous inner class
JDK-8314632	Intra-case dominance check fails in the presence of a guard
JDK-8314651	G1: Fix -Wconversion warnings in static fields of HeapRegion
JDK-8314654	Metaspace: move locking out of MetaspaceArena
JDK-8314662	jshell shows duplicated signatures of javap
JDK-8314672	ProblemList runtime/cds/appcnds/customLoader/HelloCustom_JFR.java on linux-all and windows-x64
JDK-8314679	SA fails to properly attach to JVM after having just detached from a different JVM
JDK-8314684	Add overview docs to loaderConstraints.cpp
JDK-8314688	VM build without C1 fails after JDK-8313372
JDK-8314694	Separate checked_cast from globalDefinitions.hpp
JDK-8314734	Remove unused field TypeVariableImpl.EMPTY_ANNOTATION_ARRAY
JDK-8314738	Remove all occurrences of and support for @revised
JDK-8314743	Use of uninitialized local in SR_initialize after JDK-8314114
JDK-8314745	JFR: @StackFilter
JDK-8314746	Remove unused private put* methods from DirectByteBufferR
JDK-8314748	1-10% regressions on Crypto micros
JDK-8314749	Remove unimplemented _Copy_conjoint_oops_atomic
JDK-8314752	Use google test string comparison macros
JDK-8314753	Remove support for @beaninfo, @ToDo, @since.unbundled, and @Note
JDK-8314759	VirtualThread.parkNanos timeout adjustment when pinned should be replaced
JDK-8314774	Optimize URLEncoder

OpenJDK Patch ID	Synopsis
JDK-8314810	(fs) java/nio/file/Files/CopyInterference.java should use TestUtil::supportsLinks
JDK-8314819	[JVMCI] HotSpotJVMCIRuntime.lookupType throws unexpected ClassNotFoundException
JDK-8314824	Fix serviceability/jvmti/8036666/GetObjectLockCount.java to use vm flags
JDK-8314828	Mark 3 jcmd command-line options test as vm.flagless
JDK-8314829	serviceability/sa/jmap-hprof/JMapHProfLargeHeapTest.java ignores vm flags
JDK-8314830	runtime/ErrorHandling/ tests ignore external VM flags
JDK-8314831	NMT tests ignore vm flags
JDK-8314832	Few runtime/os tests ignore vm flags
JDK-8314834	serviceability/jdwp/AllModulesCommandTest.java ignores VM flags
JDK-8314835	gtest wrappers should be marked as flagless
JDK-8314837	5 compiled/codecache tests ignore VM flags
JDK-8314838	3 compiler tests ignore vm flags
JDK-8314850	SharedRuntime::handle_wrong_method() gets called too often when resolving Continuation.enter
JDK-8314877	Make fields final in 'java.net' package
JDK-8314883	Java_java_util_prefs_FileSystemPreferences_lockFile0 write result errno in missing case
JDK-8314891	Additional Zip64 extra header validation
JDK-8314896	additional clarifications to reversed() default methods' implementation requirements
JDK-8314901	AES-GCM interleaved implementation using AVX2 instructions
JDK-8314905	jdk/jfr/tool/TestView.java fails with RuntimeException 'Invoked Concurrent' missing from stdout/stderr

OpenJDK Patch ID	Synopsis
JDK-8314909	tools/jpackage/windows/Win8282351Test.java fails with java.lang.AssertionError: Expected [0]. Actual [1618]:
JDK-8314925	ChoiceFormat does not specify IllegalArgumentExceptions
JDK-8314932	G1: Fix -Wconversion warnings for simple cases inside g1 folder
JDK-8314935	Shenandoah: Unable to throw OOME on back-to-back Full GCs
JDK-8314949	linux PPC64 Big Endian: Implementation of Foreign Function & Memory API
JDK-8314951	VM build without C2 still fails after JDK-8313530
JDK-8314960	Add Certigna Root CA - 2
JDK-8314975	JavadocTester should set source path if not specified
JDK-8314978	Multiple server call from connection failing with expect100 in getOutputStream
JDK-8314990	Generational ZGC: Strong OopStorage stats reported as weak roots
JDK-8314997	Missing optimization opportunities due to missing try_clean_mem_phi() calls
JDK-8315024	Vector API FP reduction tests should not test for exact equality
JDK-8315026	ProcessHandle implementation listing processes on AIX should use getprocs64
JDK-8315029	[BACKOUT] Generational ZGC: Tests crash with assert(index == 0 is_power_of_2(index))
JDK-8315031	YoungPLABSize and OldPLABSize not aligned by ObjectAlignmentInBytes
JDK-8315033	Problemlist java/lang/template/StringTemplateTest.java
JDK-8315034	File.mkdirs() occasionally fails to create folders on Windows shared folder
JDK-8315038	Capstone disassembler stops when it sees a bad instruction
JDK-8315039	Parallel: Remove unimplemented PYoungGen::oop_iterate
JDK-8315042	NPE in PKCS7.parseOldSignedData

OpenJDK Patch ID	Synopsis
JDK-8315051	jdk/jfr/jvm/TestGetEventWriter.java fails with non-JVMCI GCs
JDK-8315061	Make LockingMode a product flag
JDK-8315064	j.text.ChoiceFormat provides no specification on quoting behavior
JDK-8315069	Relativize extended_sp in interpreter frames
JDK-8315070	RISC-V: Clean up platform dependent inline headers
JDK-8315071	Modify TrayIconScalingTest.java, PrintLatinCJKTest.java to use new PassFailJFrame's builder pattern usage
JDK-8315072	Remove unneeded AdaptivePaddedAverage::operator new
JDK-8315073	Zero build on macOS fails after JDK-8303852
JDK-8315082	[REDO] Generational ZGC: Tests crash with assert(index == 0 is_power_of_2(index))
JDK-8315087	G1: Use uint for G1 flags indicating percentage
JDK-8315088	C2: assert(wq.size() - before == EMPTY_LOOP_SIZE) failed: expect the EMPTY_LOOP_SIZE nodes of this body if empty
JDK-8315097	Rename createJavaProcessBuilder
JDK-8315098	Improve URLEncodeDecode microbenchmark
JDK-8315116	fix minor issue in copyright header introduced by JDK-8269957 that is breaking the build
JDK-8315117	Update Zlib Data Compression Library to Version 1.3
JDK-8315127	CDSMapTest fails with incorrect number of oop references
JDK-8315128	jdk/jfr/event/runtime/TestResidentSetSizeEvent.java fails with "The size should be less than or equal to peak"
JDK-8315137	Add explicit override RecordComponentElement.asType()
JDK-8315149	Add hsp perf counters for CPU time of internal GC threads
JDK-8315195	RISC-V: Update hwprobe query for new extensions
JDK-8315206	RISC-V: hwprobe query is_set return wrong value

OpenJDK Patch ID	Synopsis
JDK-8315213	java/lang/ProcessHandle/TreeTest.java test enhance output of children
JDK-8315214	Do not run sun/tools/jhsdb tests concurrently
JDK-8315219	G1: Improve allocator pathological case where it keeps doing direct allocations instead of retiring a PLAB
JDK-8315220	Event NativeLibraryLoad breaks invariant by taking a stacktrace when thread is in state <code>_thread_in_native</code>
JDK-8315241	(fs) Move toRealPath tests in java/nio/file/Path/Misc.java to separate JUnit 5 test
JDK-8315242	G1: Fix -Wconversion warnings around GCDrainStackTargetSize
JDK-8315248	AssertionError in Name.compareTo
JDK-8315318	Typo in comment on sun.nio.ch.Net.unblock4
JDK-8315321	[aix] os::attempt_reserve_memory_at must map at the requested address or fail
JDK-8315338	RISC-V: Change flags for stable extensions to non-experimental
JDK-8315362	NMT: summary diff reports threads count incorrectly
JDK-8315364	Assert thread state invariant for JFR stack trace capture
JDK-8315369	[JVMCI] failure to attach to a libgraal isolate during shutdown should not be fatal
JDK-8315373	Change VirtualThread to unmount after freezing, re-mount before thawing
JDK-8315377	C2: <code>assert(u.find_out_with(Op_AddP) == nullptr)</code> failed: more than 2 chained AddP nodes?
JDK-8315378	[BACKOUT] runtime/NMT/SummarySanityCheck.java failed with "Total committed (MMMMMM) did not match the summarized committed (NNNNNN)"
JDK-8315383	jlink SystemModulesPlugin incorrectly parses the options
JDK-8315406	[REDO] serviceability/jdwp/AllModulesCommandTest.java ignores VM flags

OpenJDK Patch ID	Synopsis
JDK-8315410	Undocumented exceptions in java.text.StringCharacterIterator
JDK-8315413	Remove special filtering of Continuation.yield0 in StackWalker
JDK-8315415	OutputAnalyzer.shouldMatchByLine() fails in some cases
JDK-8315421	[BACKOUT] 8314834 serviceability/jdwp/AllModulesCommandTest.java ignores VM flags
JDK-8315422	getSoTimeout() would be in try block in SSLSocketImpl
JDK-8315436	HttpsServer does not send TLS alerts
JDK-8315437	Enable parallelism in vmTestbase/nsk/monitoring/stress/classload tests
JDK-8315442	Enable parallelism in vmTestbase/nsk/monitoring/stress/thread tests
JDK-8315444	Convert test/jdk/tools to Classfile API
JDK-8315445	8314748 causes crashes in x64 builds
JDK-8315446	G1: Remove unused G1AllocRegion::attempt_allocation
JDK-8315452	Erroneous AST missing modifiers for partial input
JDK-8315454	Add a way to create an immutable snapshot of a BitSet
JDK-8315457	Implement JEP 459: String Templates (Second Preview)
JDK-8315458	Implement JEP 463: Implicitly Declared Classes and Instance Main Method (Second Preview)
JDK-8315459	Print G1 reserved and committed sizes as separate items in VM.info and hs_err
JDK-8315464	Uncouple AllClassesIndexWriter from IndexBuilder
JDK-8315484	java/awt/dnd/RejectDragDropActionTest.java timed out
JDK-8315485	(fs) Move java/nio/file/Path/Misc.java tests into java/nio/file/Path/PathOps.java
JDK-8315486	vmTestbase/nsk/jdwp/ThreadReference/ForceEarlyReturn/forceEarlyReturn002/forceEarlyReturn002.java timed out
JDK-8315503	G1: Code root scan causes long GC pauses due to imbalanced iteration

OpenJDK Patch ID	Synopsis
JDK-8315505	CompileTask timestamp printed can overflow
JDK-8315532	Compiler Implementation for Unnamed Variables & Patterns
JDK-8315533	JLS changes for Unnamed Variables & Patterns
JDK-8315534	Incorrect warnings about implicit annotation processing
JDK-8315541	Classfile API TypeAnnotation.TargetInfo factory methods accept null labels
JDK-8315545	C1: x86 cmov can use short branches
JDK-8315548	G1: Document why VM_G1CollectForAllocation::doit() may allocate without completing a GC
JDK-8315549	CITime misreports code/total nmethod sizes
JDK-8315550	G1: Fix -Wconversion warnings in g1NUMA
JDK-8315554	C1: Replace "cmp reg, 0" with "test reg, reg" on x86
JDK-8315559	Delay TempSymbol cleanup to avoid symbol table churn
JDK-8315563	Remove references to JDK-8226420 from problem list
JDK-8315566	[JVMCI] deadlock in JVMCI startup when bad option specified
JDK-8315576	compiler/codecache/CodeCacheFullCountTest.java fails after JDK-8314837
JDK-8315578	PPC builds are broken after JDK-8304913
JDK-8315579	SPARC64 builds are broken after JDK-8304913
JDK-8315580	Remove unused java_lang_String::set_value_raw()
JDK-8315582	Exclude compiler/codecache/CodeCacheFullCountTest.java with Xcomp
JDK-8315588	JShell does not accept underscore from JEP 443 even with --enable-preview
JDK-8315594	Open source few headless Swing misc tests
JDK-8315600	Open source few more headless Swing misc tests
JDK-8315602	Open source swing security manager test

OpenJDK Patch ID	Synopsis
JDK-8315604	IGV: dump and visualize node bottom and phase types
JDK-8315605	G1: Add number of nmethods in code roots scanning statistics
JDK-8315606	Open source few swing text/html tests
JDK-8315609	Open source few more swing text/html tests
JDK-8315611	Open source swing text/html and tree test
JDK-8315612	RISC-V: intrinsic for unsignedMultiplyHigh
JDK-8315637	JDK-8314249 broke libgraal
JDK-8315644	increase timeout of sun/security/tools/jarsigner/Warning.java
JDK-8315648	Add test for JDK-8309979 changes
JDK-8315651	Stop hiding AIX specific multicast socket errors via NetworkConfiguration (aix)
JDK-8315652	RISC-V: Features string uses wrong separator for jtreg
JDK-8315663	Open source misc awt tests
JDK-8315669	Open source several Swing PopupMenu related tests
JDK-8315677	Open source few swing JFileChooser and other tests
JDK-8315678	Classfile API ConstantPool::entryCount and ConstantPool::entryByIndex methods are confusing
JDK-8315680	java/lang/ref/ReachabilityFenceTest.java should run with -Xbatch
JDK-8315683	Parallelize java/util/concurrent/tck/JSR166TestCase.java
JDK-8315684	Parallelize sun/security/util/math/TestIntegerModuloP.java
JDK-8315686	G1: Disallow evacuation of marking regions in a Prepare Mixed gc
JDK-8315689	G1: Remove unused init_hash_seed
JDK-8315692	Parallelize gc/stress/TestStressRSetCoarsening.java test
JDK-8315696	SignedLoggerFinderTest.java test failed
JDK-8315698	Crash when comparing BasicType as int after JDK-8310577

OpenJDK Patch ID	Synopsis
JDK-8315701	[macos] Regression: KeyEvent has different keycode on different keyboard layouts
JDK-8315702	jcmm Thread.dump_to_file slow with millions of virtual threads
JDK-8315706	com/sun/tools/attach/warnings/DynamicLoadWarningTest.java real fix for failure on AIX
JDK-8315716	RISC-V: implement ChaCha20 intrinsic
JDK-8315717	ProblemList serviceability/sa/TestHeapDumpForInvokeDynamic.java with ZGC
JDK-8315721	CloseRace.java#id0 fails transiently on libgraal
JDK-8315726	Open source several AWT applet tests
JDK-8315731	Open source several Swing Text related tests
JDK-8315735	VerifyError when switch statement used with synchronized block
JDK-8315739	Missing null check in os::vm_min_address
JDK-8315741	Open source few swing JFormattedTextField and JPopupMenu tests
JDK-8315742	Open source several Swing Scroll related tests
JDK-8315743	RISC-V: Cleanup masm lr()/sc() methods
JDK-8315750	Update subtype check profile collection on PPC following 8308869
JDK-8315751	RandomTestBsi1999 fails often with timeouts on Linux ppc64le
JDK-8315761	Open source few swing JList and JMenuBar tests
JDK-8315765	G1: Incorrect use of G1LastPLABAverageOccupancy
JDK-8315766	Parallelize gc/stress/TestStressIHOPMultiThread.java test
JDK-8315770	serviceability/sa/TestJmapCoreMetaspace.java should run with -XX:-VerifyDependencies
JDK-8315771	[JVMCI] Resolution of bootstrap methods with int[] static arguments
JDK-8315774	Enable parallelism in vmTestbase/gc/g1/unloading tests
JDK-8315781	Reduce the max value of GCDrainStackTargetSize

OpenJDK Patch ID	Synopsis
JDK-8315789	Minor HexFormat performance improvements
JDK-8315795	runtime/Safepoint/TestAbortVMOnSafepointTimeout.java fails after JDK-8305507
JDK-8315801	[PPC64] JNI code should be more similar to the Panama implementation
JDK-8315804	Open source several Swing JTabbedPane JTextArea JTextField tests
JDK-8315810	Reimplement sun.reflect.ReflectionFactory::newConstructorForSerialization with method handles
JDK-8315818	vmTestbase/nsk/jvmti/Allocate/alloc001/alloc001.java fails on libgraal
JDK-8315824	Open source several Swing Text/HTML related tests
JDK-8315825	Open some swing tests
JDK-8315827	Kitchensink.java and RenaissanceStressTest.java time out with jvmti module errors
JDK-8315834	Open source several Swing JSpinner related tests
JDK-8315841	RISC-V: Check for hardware TSO support
JDK-8315848	G1: Rename rs_ prefix to card_rs in analytics
JDK-8315850	Improve AbstractMap anonymous Iterator classes
JDK-8315854	G1: Remove obsolete comment in G1ReclaimEmptyRegionsTask
JDK-8315855	G1: Revise signature of set_humongous_candidate
JDK-8315869	UseHeavyMonitors not used
JDK-8315871	Opensource five more Swing regression tests
JDK-8315876	Open source several Swing CSS related tests
JDK-8315877	ProblemList vmTestbase/nsk/jvmti/InterruptThread/intrpthrd003/TestDescription.java on macosx-aarch64
JDK-8315879	ProblemList java/awt/PopupMenu/PopupMenuLocation.java on macosx-aarch64

OpenJDK Patch ID	Synopsis
JDK-8315880	Change LockingMode default from LM_LEGACY to LM_LIGHTWEIGHT
JDK-8315882	Open some swing tests 2
JDK-8315883	Open source several Swing JToolBar tests
JDK-8315889	Open source several Swing HTMLDocument related tests
JDK-8315890	Attempts to load from nullptr in instanceKlass.cpp and unsafe.cpp
JDK-8315891	java/foreign/TestLinker.java failed with "error occurred while instantiating class TestLinker: null"
JDK-8315898	Open source swing JMenu tests
JDK-8315920	C2: "control input must dominate current control" assert failure
JDK-8315921	Invalid CSS declarations in java.lang class documentation
JDK-8315930	Revert "8315220: Event NativeLibraryLoad breaks invariant by taking a stacktrace when thread is in state _thread_in_native"
JDK-8315931	RISC-V: xxxMaxVectorTestsSmokeTest fails when using RVV
JDK-8315932	runtime/InvocationTests spend a lot of time on dependency verification
JDK-8315933	Serial: Remove empty Generation::ensure_parsability
JDK-8315934	RISC-V: Disable conservative fences per vendor
JDK-8315936	Parallelize gc/stress/TestStressG1Humongous.java test
JDK-8315937	Enable parallelism in vmTestbase/nsk/stress/numeric tests
JDK-8315938	Deprecate for removal Unsafe methods that have standard APIs for many releases
JDK-8315940	ARM32: Move field resolution information out of the cpCache
JDK-8315942	Sort platform enums and definitions after JDK-8304913 follow-ups
JDK-8315946	DecimalFormat and CompactNumberFormat do allow U+FFFE and U+FFFF in the pattern
JDK-8315948	JDK-8315818 broke Xcomp on libgraal
JDK-8315951	Open source several Swing HTMLToolkit related tests

OpenJDK Patch ID	Synopsis
JDK-8315952	Open source several Swing JToolBar JToolTip JTree tests
JDK-8315954	getArgumentValues002.java fails on Graal
JDK-8315960	test/jdk/java/io/File/TempDirDoesNotExist.java leaves test files behind
JDK-8315965	Open source various AWT applet tests
JDK-8315966	Relativize initial_sp in interpreter frames
JDK-8315968	Move java.util.Digits to jdk.internal.util and refactor to reduce duplication
JDK-8315969	compiler/rangechecks/TestRangeCheckHoistingScaledIV.java: make flagless
JDK-8315970	Big-endian issues after JDK-8310929
JDK-8315971	ProblemList containers/docker/TestMemoryAwareness.java on linux-all
JDK-8315973	Remove unused fields from ThreadLocalRandom
JDK-8315974	Make fields final in 'com.sun.crypto.provider' package
JDK-8315981	Opensource five more random Swing tests
JDK-8315986	[macos14] javax/swing/JMenuItem/4654927/bug4654927.java: component must be showing on the screen to determine its location
JDK-8315988	Parallel: Make TestAggressiveHeap use createTestJvm
JDK-8315990	Amend problemlisted tests to proper position
JDK-8315998	Remove dead ClassLoaderDataGraphKlassIteratorStatic
JDK-8316000	File.setExecutable silently fails if file does not exist
JDK-8316001	GC: Make TestArrayAllocatorMallocLimit use createTestJvm
JDK-8316002	Remove unnecessary seen_dead_loader in ClassLoaderDataGraph::do_unloading
JDK-8316003	Update FileChooserSymLinkTest.java to HTML instructions
JDK-8316017	Refactor timeout handler in PassFailJFrame
JDK-8316021	Serial: Remove unused Generation::post_compact

OpenJDK Patch ID	Synopsis
JDK-8316025	Use testUI() method of PassFailJFrame.Builder in FileChooserSymLinkTest.java
JDK-8316028	Update FreeType to 2.13.2
JDK-8316030	Update Libpng to 1.6.40
JDK-8316031	SSLFlowDelegate should not log from synchronized block
JDK-8316038	Fix doc typos in java.io.Console and java.util.Scanner
JDK-8316046	x64 platforms unnecessarily save xmm16-31 when UseAVX >= 3
JDK-8316050	Use hexadecimal encoding in MemorySegment::toString
JDK-8316053	Open some swing tests 3
JDK-8316056	Open source several Swing JTree tests
JDK-8316060	test/hotspot/jtreg/runtime/reflect/ReflectOutOfMemoryError.java may fail if heap is huge
JDK-8316061	Open source several Swing RootPane and Slider related tests
JDK-8316087	Test SignedLoggerFinderTest.java is still failing
JDK-8316094	ProblemList compiler/rangechecks/TestRangeCheckHoistingScaledIV.java
JDK-8316098	Revise signature of numa_get_leaf_groups
JDK-8316104	Open source several Swing SplitPane and RadioButton related tests
JDK-8316105	C2: Back to back Parse Predicates from different loops but with same deopt reason are wrongly grouped together
JDK-8316106	Open source few swing JInternalFrame and JMenuBar tests
JDK-8316113	Infinite permission checking loop in java/net/spi/InetAddressResolverProvider/RuntimePermissionTest
JDK-8316115	Parallel: Fix -Wconversion warnings around NUMA node ID
JDK-8316123	ProblemList serviceability/dcmd/gc/RunFinalizationTest.java on AIX
JDK-8316125	Windows call_stub unnecessarily saves xmm16-31 when UseAVX>=3

OpenJDK Patch ID	Synopsis
JDK-8316130	Incorrect control in LibraryCallKit::inline_native_notify_jvmti_funcs
JDK-8316132	CDSProtectionDomain::get_shared_protection_domain should check for exception
JDK-8316142	Enable parallelism in vmTestbase/nsk/monitoring/stress/lowmem tests
JDK-8316144	Remove unused field jdk.internal.util.xml.impl.XMLStreamWriterImpl.Element._Depth
JDK-8316146	Open some swing tests 4
JDK-8316147	Remove serviceability/sa/TestJhsdbJstackMixed.java from -Xcomp problem list
JDK-8316148	Remove sun/tools/jhsdb/JStackStressTest.java from problem list
JDK-8316149	Open source several Swing JTree JViewport KeyboardManager tests
JDK-8316154	Opensource JTextArea manual tests
JDK-8316156	ByteArrayInputStream.transferTo causes MaxDirectMemorySize overflow
JDK-8316159	Update BorderLayout sample image for crisper edges
JDK-8316160	Remove sun.misc.Unsafe.{shouldBelinitialized,ensureClassInitialized}
JDK-8316164	Opensource JMenuBar manual test
JDK-8316178	Better diagnostic header for CodeBlobs
JDK-8316179	Use consistent naming for lightweight locking in MacroAssembler
JDK-8316181	Move the fast locking implementation out of the .ad files
JDK-8316182	RISC-V: SA stack walking code having trouble finding sender frame when invoking LambdaForms is involved
JDK-8316186	RISC-V: Remove PlatformCmpxchg<4>
JDK-8316187	Modernize examples in StringTokenizer and {Date,Number}Format
JDK-8316190	Improve MemorySegment::toString
JDK-8316193	jdk/jfr/event/oldobject/TestListenerLeak.java java.lang.Exception: Could not find leak

OpenJDK Patch ID	Synopsis
JDK-8316199	Remove sun/tools/jstatd/TestJstatd* tests from problemlist for Windows.
JDK-8316206	Test StretchedFontTest.java fails for Baekmuk font
JDK-8316207	Fix typos in java.io.StreamTokenizer
JDK-8316211	Open source several manual applet tests
JDK-8316218	Open some swing tests 5
JDK-8316228	jcmm tests are broken by 8314828
JDK-8316229	Enhance class initialization logging
JDK-8316233	VirtualThreadStart events should not be thread-filtered
JDK-8316240	Open source several add/remove MenuBar manual tests
JDK-8316241	Test jdk/jdk/jfr/jvm/TestChunkIntegrity.java failed
JDK-8316242	Opensource SwingGraphics manual test
JDK-8316271	JfrJvmtiAgent::retransformClasses failed: JVMTI_ERROR_FAILS_VERIFICATION
JDK-8316273	JDK-8315818 broke JVMCIPrintProperties on libgraal
JDK-8316285	Opensource JButton manual tests
JDK-8316295	Serial: Remove empty Generation::promotion_failure_occurred
JDK-8316304	(fs) Add support for BasicFileAttributes.creationTime() for Linux
JDK-8316305	Initial buffer size of StackWalker is too small caused by JDK-8285447
JDK-8316306	Open source and convert manual Swing test
JDK-8316309	AArch64: VMError::print_native_stack() crashes on Java native method frame
JDK-8316319	Generational ZGC: The SoftMaxHeapSize might be wrong when CDS decreases the MaxHeapSize
JDK-8316326	ProblemList java/awt/Mouse/EnterExitEvents/DragWindowTest.java on macosx-all again

OpenJDK Patch ID	Synopsis
JDK-8316337	(bf) Concurrency issue in DirectByteBuffer.Deallocator
JDK-8316341	sun/security/pkcs11/PKCS11Test.java needs adjustment on Linux ppc64le Ubuntu 22
JDK-8316342	CLHSDB "dumpclass" command produces invalid classes
JDK-8316357	Serial: Remove unused GenCollectedHeap::space_containing
JDK-8316361	C2: assert(!failure) failed: Missed optimization opportunity in PhaseltterGVN with -XX:VerifyIterativeGVN=10
JDK-8316371	Open some swing tests 6
JDK-8316383	NullPointerException in AbstractSAXParser after JDK-8306632
JDK-8316387	Exclude more failing multicast tests on AIX after JDK-8315651
JDK-8316389	Open source few AWT applet tests
JDK-8316391	(zipfs) ZipFileSystem.readFullyAt does not tolerate short reads
JDK-8316392	compiler/interpreter/TestVerifyStackAfterDeopt.java failed with SIGBUS in PcDescContainer::find_pc_desc_internal
JDK-8316396	Endless loop in C2 compilation triggered by AddNode::IdeallL
JDK-8316399	Exclude java/net/MulticastSocket/Promiscuous.java on AIX
JDK-8316400	Exclude jdk/jfr/event/runtime/TestResidentSetSizeEvent.java on AIX
JDK-8316401	sun/tools/jhsdb/JStackStressTest.java failed with "InternalError: We should have found a thread that owns the anonymous lock"
JDK-8316410	GC: Make TestCompressedClassFlags use createTestJvm
JDK-8316411	compiler/compilercontrol/TestConflictInlineCommands.java fails intermittent with force inline by CompileCommand missing
JDK-8316414	C2: large byte array clone triggers "failed: malformed control flow" assertion failure on linux-x86
JDK-8316415	Parallelize sun/security/rsa/SignedObjectChain.java subtests
JDK-8316417	ObjectMonitorIterator does not return the most recent monitor and is incorrect if no monitors exists

OpenJDK Patch ID	Synopsis
JDK-8316418	containers/docker/TestMemoryWithCgroupV1.java get OOM killed with Parallel GC
JDK-8316420	Serial: Remove unused GenCollectedHeap::oop_iterate
JDK-8316421	libjava should load shell32.dll eagerly
JDK-8316422	TestIntegerUnsignedDivMod.java triggers "invalid layout" assert in FrameValues::validate
JDK-8316426	Optimization for HexFormat.formatHex
JDK-8316427	Duplicated code for {obj,type}ArrayKlass::array_klass
JDK-8316428	G1: Nmethod count statistics only count last code root set iterated
JDK-8316433	net.dll should delay load winhttp.dll
JDK-8316435	sun.util.calendar.CalendarSystem subclassing should be restricted
JDK-8316436	ContinuationWrapper uses unhandled nullptr oop
JDK-8316437	JFR: assert(!tl->has_java_buffer()) failed: invariant
JDK-8316440	LambdasInTwoArchives.java failed to find WhiteBox.class
JDK-8316445	Mark com/sun/management/HotSpotDiagnosticMXBean/CheckOrigin.java as vm.flagless
JDK-8316446	4 sun/management/jdp tests ignore VM flags
JDK-8316447	8 sun/management/jmxremote tests ignore VM flags
JDK-8316452	java/lang/instrument/modules/AppendToClassPathModuleTest.java ignores VM flags
JDK-8316453	[JVMCI] Using Xcomp on jargraal must eagerly initialize JVMCI
JDK-8316454	JFR break locale settings
JDK-8316456	StackWalker may skip Continuation::yield0 frame mistakenly
JDK-8316462	sun/jvmsstat/monitor/MonitoredVm/MonitorVmStartTerminate.java ignores VM flags

OpenJDK Patch ID	Synopsis
JDK-8316464	3 sun/tools tests ignore VM flags
JDK-8316468	os::write incorrectly handles partial write
JDK-8316470	Incorrect error location for "invalid permits clause" depending on file order
JDK-8316513	Serial: Remove unused invalidate_remembered_set
JDK-8316514	Better diagnostic header for VtableStub
JDK-8316523	Relativize esp in interpreter frames (PowerPC only)
JDK-8316533	C2 compilation fails with assert(verify(phase)) failed: missing Value() optimization
JDK-8316538	runtime/handshake/MixedHandshakeWalkStackTest.java crashes with JFR
JDK-8316540	StoreReproducibilityTest fails on some locales
JDK-8316546	Backout JDK-8315932: runtime/InvocationTests spend a lot of time on dependency verification
JDK-8316547	Use JUnit.dir jtreg property with jpackage JUnit tests
JDK-8316556	Fix typos in java.desktop
JDK-8316557	Make fields final in 'sun.util' package
JDK-8316559	Refactor some util/Calendar tests to JUnit
JDK-8316562	serviceability/sa/jmap-hprof/JMapHProfLargeHeapTest.java times out after JDK-8314829
JDK-8316563	test tools/jpackage/linux/LinuxResourceTest.java fails on CentOS Linux release 8.5.2111 and Fedora 27
JDK-8316566	RISC-V: Zero extended narrow oop passed to Atomic::cmpxchg
JDK-8316580	HttpClient with StructuredTaskScope does not close when a task fails
JDK-8316581	Improve performance of Symbol::print_value_on()
JDK-8316582	Minor startup regression in 22-b15 due JDK-8310929

OpenJDK Patch ID	Synopsis
JDK-8316585	[REDO] runtime/InvocationTests spend a lot of time on dependency verification
JDK-8316587	Use ArraysSupport.vectorizedHashCode in Utf8EntryImpl
JDK-8316592	RISC-V: implement poly1305 intrinsic
JDK-8316594	C2 SuperWord: wrong result with hand unrolled loops
JDK-8316595	Alpine build fails after JDK-8314021
JDK-8316608	Enable parallelism in vmTestbase/gc/vector tests
JDK-8316627	JViewport Test headless failure
JDK-8316629	j.text.DateFormatSymbols setZoneStrings() exception is unhelpful
JDK-8316632	Shenandoah: Raise OOME when gc threshold is exceeded
JDK-8316645	RISC-V: Remove dependency on libatomic by adding cmpxchg 1b
JDK-8316653	Large NMethodSizeLimit triggers assert during C1 code buffer allocation
JDK-8316658	serviceability/jvmti/RedefineClasses/RedefineLeakThrowable.java fails intermittently
JDK-8316659	assert(LockingMode != LM_LIGHTWEIGHT flag == CCR0) failed: bad condition register
JDK-8316661	CompilerThread leaks CodeBlob memory when dynamically stopping compiler thread in non-product
JDK-8316669	ImmutableOopMapSet destructor not called
JDK-8316670	Remove effectively unused nmethodBucket::_count
JDK-8316671	sun/security/ssl/SSLSocketImpl/SSLSocketCloseHang.java test fails intermittent with Read timed out
JDK-8316679	C2 SuperWord: wrong result, load should not be moved before store if not comparable
JDK-8316681	Rewrite URLEncoder.encode to use small reusable buffers
JDK-8316688	Widen allowable error bound of Math.hypot

OpenJDK Patch ID	Synopsis
JDK-8316691	Heap dump: separate stack traces for mounted virtual threads
JDK-8316693	Simplify at-requires checkDockerSupport()
JDK-8316695	ProblemList serviceability/jvmti/RedefineClasses/RedefineLeakThrowable.java
JDK-8316696	Remove the testing base classes: IntlTest and CollatorTest
JDK-8316698	build failure caused by JDK-8316456
JDK-8316699	TestDynamicConstant.java fails with release VMs
JDK-8316702	Only evaluate buffer when IGVPrintLevelOption >= 5
JDK-8316710	Exclude java/awt/font/Rotate/RotatedTextTest.java
JDK-8316711	SEGV in LoaderConstraintTable::find_loader_constraint after JDK-8310874
JDK-8316719	C2 compilation still fails with "bad AD file"
JDK-8316734	URLEncoder should specify that replacement bytes will be used in case of coding error
JDK-8316735	Print LockStack in hs_err files
JDK-8316738	java/net/httpclient/HttpClientLocalAddrTest.java failed in timeout
JDK-8316741	BasicStroke.createStrokedShape miter-limits failing on small shapes
JDK-8316743	RISC-V: Change UseVectorizedMismatchIntrinsic option result to warning
JDK-8316746	Top of lock-stack does not match the unlocked object
JDK-8316756	C2 EA fails with "missing memory path" when encountering unsafe_arraycopy stub call
JDK-8316771	Krb5.java has not defined messages for all error codes
JDK-8316778	test hprof lib: invalid array element type from JavaValueArray.elementSize
JDK-8316851	Add @sealedGraph to Executable
JDK-8316859	RISC-V: Disable detection of V through HWCAP

OpenJDK Patch ID	Synopsis
JDK-8316879	RegionMatches1Tests fails if CompactStrings are disabled after JDK-8302163
JDK-8316880	AArch64: "stop: Header is not fast-locked" with -XX:-UseLSE since JDK-8315880
JDK-8316885	jcmd: Compiler.CodeHeap_Analytics cmd does not inform about missing aggregate
JDK-8316895	SeenThread::print_action_queue called on a null pointer
JDK-8316897	tools/jpackage/junit tests fail on AIX after JDK-8316547
JDK-8316906	Clarify TLABWasteTargetPercent flag
JDK-8316907	Fix nonnull-compare warnings
JDK-8316918	Optimize conversions duplicated across phi nodes
JDK-8316923	Add DEF_STATIC_JNI_OnLoad for librmi
JDK-8316924	java/lang/Thread/virtual/stress/ParkALot.java times out
JDK-8316927	JFR: Move shouldCommit check earlier for socket events
JDK-8316929	Shenandoah: Shenandoah degenerated GC and full GC need to cleanup old OopMapCache entries
JDK-8316933	RISC-V: compiler/vectorapi/VectorCastShape128Test.java fails when using RVV
JDK-8316935	[s390x] Use consistent naming for lightweight locking in MacroAssembler
JDK-8316940	Serial: Remove unused declarations in genCollectedHeap
JDK-8316947	Write a test to check textArea triggers MouseEntered/MouseExited events properly
JDK-8316957	Serial: Change GenCollectedHeap to SerialHeap inside gc/serial folder
JDK-8316958	Add test for unstructured locking
JDK-8316959	Improve InlineCacheBuffer pending queue management
JDK-8316961	Fallback implementations for 64-bit Atomic::{add,xchg} on 32-bit platforms

OpenJDK Patch ID	Synopsis
JDK-8316964	Security tools should not call System.exit
JDK-8316967	Correct the scope of vmtimer in UnregisteredClasses::load_class
JDK-8316969	Improve CDS module graph support for --module option
JDK-8316970	Add internal annotation to mark restricted methods
JDK-8316971	Add Lint warning for restricted method calls
JDK-8316972	Add javadoc support for restricted methods
JDK-8316973	GC: Make TestDisableDefaultGC use createTestJvm
JDK-8316974	ListFormat creation is unsuccessful for some of the supported Locales
JDK-8316975	Memory leak in MTLSurfaceData
JDK-8316994	Avoid modifying ClassLoader and Module objects during -Xshare:dump
JDK-8316996	Catalog API Enhancement: add a factory method
JDK-8316998	Remove redundant type arguments in the java.util.stream package
JDK-8317034	Remove redundant type cast in the java.util.stream package
JDK-8317042	G1: Make TestG1ConcMarkStepDurationMillis use createTestJvm
JDK-8317048	VerifyError with unnamed pattern variable and more than one components
JDK-8317112	Add screenshot for Frame/DefaultSizeTest.java
JDK-8317119	Remove unused imports in the java.util.stream package
JDK-8317126	Redundant entries in Windows <code>tz mappings</code> file
JDK-8317128	java/nio/file/Files/CopyAndMove.java failed with AccessDeniedException
JDK-8317132	Prepare HotSpot for permissive-
JDK-8317136	[AIX] Problem List runtime/jni/terminatedThread/TestTerminatedThread.java
JDK-8317139	[JVMCI] oop handles clearing message pollutes event log
JDK-8317141	Remove unused validIndex method from URLClassPath\$JarLoader

OpenJDK Patch ID	Synopsis
JDK-8317144	Exclude sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java on Linux ppc64le
JDK-8317188	G1: Make TestG1ConcRefinementThreads use createTestJvm
JDK-8317218	G1: Make TestG1HeapRegionSize use createTestJvm
JDK-8317221	Implementation for javax.lang.model for Unnamed Variables & Patterns
JDK-8317228	GC: Make TestXXXHeapSizeFlags use createTestJvm
JDK-8317235	Remove Access API use in nmethod class
JDK-8317240	Promptly free OopMapEntry after fail to insert the entry to OopMapCache
JDK-8317246	Cleanup java.net.URLEncoder and URLDecoder use of file.encoding property
JDK-8317257	RISC-V: llvm build broken
JDK-8317262	LockStack::contains(oop) fails "assert(t̄is_Java_thread()) failed: incorrect cast to JavaThread"
JDK-8317264	Pattern.Bound has <code>static</code> fields that should be <code>static final</code> .
JDK-8317265	ListFormat::format specification could be made clearer regarding handling IllegalArgumentException.
JDK-8317266	Move nmethod::check_all_dependencies to codeCache.cpp and mark it NOT_PRODUCT
JDK-8317273	compiler/codecache/OverflowCodeCacheTest.java fails transiently on Graal
JDK-8317283	jpackage tests run osx-specific checks on windows and linux
JDK-8317285	Misspellings in hprof test lib
JDK-8317288	[macos] java/awt/Window/Grab/GrabTest.java: Press on the outside area didn't cause ungrab
JDK-8317289	javadoc fails with -sourcepath if module-info.java contains import statements
JDK-8317294	Classloading throws exceptions over already pending exceptions

OpenJDK Patch ID	Synopsis
JDK-8317295	ResponseSubscribers.SubscriberAdapter should call the finisher function asynchronously
JDK-8317300	javac erroneously allows "final" in front of a record pattern
JDK-8317307	test/jdk/com/sun/jndi/ldap/LdapPoolTimeoutTest.java fails with ConnectException: Connection timed out: no further information
JDK-8317314	Remove unimplemented ObjArrayKlass::oop_oop_iterate_elements_bounded
JDK-8317316	G1: Make TestG1PercentageOptions use createTestJvm
JDK-8317317	G1: Make TestG1RemSetFlags use createTestJvm
JDK-8317318	Serial: Change GenCollectedHeap to SerialHeap in whitebox
JDK-8317332	Prepare security for permissive-
JDK-8317335	Build on windows fails after 8316645
JDK-8317336	Assertion error thrown during 'this' escape analysis
JDK-8317343	GC: Make TestHeapFreeRatio use createTestJvm
JDK-8317347	Parallel: Make TestInitialTenuringThreshold use createTestJvm
JDK-8317350	Move code cache purging out of CodeCache::UnloadingScope
JDK-8317354	Serial: Move DirtyCardToOopClosure to gc/serial folder
JDK-8317358	G1: Make TestMaxNewSize use createTestJvm
JDK-8317360	Missing null checks in JfrCheckpointManager and JfrStringPool initialization routines
JDK-8317372	Refactor some NumberFormat tests to use JUnit
JDK-8317373	Add Telia Root CA v2
JDK-8317374	Add Let's Encrypt ISRG Root X2
JDK-8317422	[JVMCI] concurrency issue in MethodData creation
JDK-8317432	Async UL: Use memcpy instead of strcpy in Message ctr
JDK-8317433	Async UL: Only grab lock once when write():ing

OpenJDK Patch ID	Synopsis
JDK-8317440	Lock rank checking fails when code root set is modified with the Servicelock held after JDK-8315503
JDK-8317443	StackOverflowError on calling ListFormat::getInstance() for Norwegian locales
JDK-8317446	ProblemList gc/arguments/TestNewSizeFlags.java on macosx-aarch64 in Xcomp
JDK-8317448	ProblemList compiler/interpreter/TestVerifyStackAfterDeopt.java on macosx-aarch64 in Xcomp
JDK-8317449	ProblemList serviceability/jvmti/stress/StackTrace/NotSuspended/GetStackTraceNotSuspendedStressTest.java on several platforms
JDK-8317452	[JVMCI] Export symbols used by lightweight locking to JVMCI compilers.
JDK-8317471	ListFormat::parseObject() spec can be improved on parsePosition valid values
JDK-8317502	Add asserts to check for non-null in cilnstance::java_lang_Class_klass
JDK-8317507	C2 compilation fails with "Exceeded _node_regs array"
JDK-8317514	Ensure MemorySegment is initialized before touching NativeMemorySegmentImpl
JDK-8317515	Unify the code of the parse*() families of methods in j.l.Integer and j.l.Long
JDK-8317522	Test logic for BODY_CF in AbstractThrowingSubscribers.java is wrong
JDK-8317535	Shenandoah: Remove unused code
JDK-8317545	AIX PPC64: Implementation of Foreign Function & Memory API
JDK-8317562	[JFR] Compilation queue statistics
JDK-8317565	Update Manpage for obsoletion of UseSHM
JDK-8317575	AArch64: C2_MacroAssembler::fast_lock uses rscratch1 for cmpxchg result
JDK-8317581	[s390x] Multiple test failure with LockingMode=2

OpenJDK Patch ID	Synopsis
JDK-8317592	Serial: Remove Space::toContiguousSpace
JDK-8317594	G1: Refactor find_empty_from_idx_reverse
JDK-8317600	VtableStubs::stub_containing() table load not ordered wrt to stores
JDK-8317603	Improve exception messages thrown by sun.nio.ch.Net native methods (win)
JDK-8317609	Classfile API fails to verify /jdk.jcmd/sun/tools/jstat/Alignment.class
JDK-8317612	ChoiceFormat and MessageFormat constructors call non-final public method
JDK-8317631	Refactor ChoiceFormat tests to use JUnit
JDK-8317633	Modernize text.testlib.HexDumpReader
JDK-8317635	Improve GetClassFields test to verify correctness of field order
JDK-8317660	[BACKOUT] 8269393: store/load order not preserved when handling memory pool due to weakly ordered memory architecture of aarch64
JDK-8317661	[REDO] store/load order not preserved when handling memory pool due to weakly ordered memory architecture of aarch64
JDK-8317675	Serial: Move gc/shared/generation to serial folder
JDK-8317677	Specialize Vtablestubs::entry_for() for VtableBlob
JDK-8317678	Fix up hashCode() for ZipFile.Source.Key
JDK-8317683	Add JIT memory statistics
JDK-8317687	(fs) FileStore.supportsFileAttributeView("posix") incorrectly returns 'true' for FAT32 volume on macOS
JDK-8317689	[JVMCI] include error message when CreateJavaVM in libgraal fails
JDK-8317692	jcmd GC.heap_dump performance regression after JDK-8292818
JDK-8317693	Unused parameter to Tokens.Token.comment method
JDK-8317696	Fix compilation with clang-16

OpenJDK Patch ID	Synopsis
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-8317711	Exclude gtest/GTestWrapper.java on AIX
JDK-8317723	C2: CountedLoopEndNodes and Zero Trip Guards are wrongly treated as Runtime Predicate
JDK-8317730	Change byte_size to return size_t
JDK-8317736	Stream::handleReset locks twice
JDK-8317738	CodeCacheFullCountTest failed with "VirtualMachineError: Out of space in CodeCache for method handle intrinsic"
JDK-8317742	ISO Standard Date Format implementation consistency on DateTimeFormatter and String.format
JDK-8317751	ProblemList ConsumeForModalDialogTest.java, MenuItemActivatedTest.java & MouseModifiersUnitTest_Standard.java for windows
JDK-8317761	Combine two versions of print_statistics() in java.cpp
JDK-8317763	Follow-up to AVX512 intrinsics for Arrays.sort() PR
JDK-8317772	NMT: Make peak values available in release builds
JDK-8317790	Fix Bug entry for exclusion of runtime/jni/terminatedThread/TestTerminatedThread.java on AIX
JDK-8317795	Add an ImmutableBitSetPredicate variant for bitsets ≥ 128 elements
JDK-8317797	G1: Remove unimplemented predict_will_fit
JDK-8317799	AIX PPC64: FFI symbol lookup doesn't find symbols
JDK-8317803	Exclude java/net/Socket/asyncClose/Race.java on AIX
JDK-8317808	HTTP/2 stream cancellImpl may leave subscriber registered
JDK-8317809	Insertion of free code blobs into code cache can be very slow during class unloading

OpenJDK Patch ID	Synopsis
JDK-8317818	Combinatorial explosion during 'this' escape analysis
JDK-8317819	Scope should reflect lifetime of underlying resource (mainline)
JDK-8317824	Beef up javadoc for base offset in var handles derived from layouts (mainline)
JDK-8317831	compiler/codecache/CheckLargePages.java fails on OL 8.8 with unexpected memory string
JDK-8317834	java/lang/Thread/IsAlive.java timed out
JDK-8317837	Leftover FFM implementation-only changes
JDK-8317839	Exclude java/nio/channels/Channels/SocketChannelStreams.java on AIX
JDK-8317847	Typo in API documentation of class JPopupMenu
JDK-8317866	replace NET_SocketAvailable
JDK-8317868	Add @sealedGraph to MethodHandleDesc and descendants
JDK-8317873	Add @sealedGraph to IllegalFormatException
JDK-8317874	Add @sealedGraph to StringTemplate.Processor.Linkage
JDK-8317886	Add @sealedGraph to ByteBuffer
JDK-8317919	pthread_attr_init handle return value and destroy pthread_attr_t object
JDK-8317920	JDWP-agent sends broken exception event with onthrow option
JDK-8317937	@sealedGraph: Links to inner classes fails in links
JDK-8317951	Refactor loading of zip library to help resolve JDK-8315220
JDK-8317956	Make jdk.internal.util.Architecture current architecture final
JDK-8317959	Check return values of malloc in native java.base coding
JDK-8317963	Serial: Remove unused GenerationIsInReservedClosure
JDK-8317964	java/awt/Mouse/MouseModifiersUnitTest/MouseModifiersUnitTest_Standard.java fails on macosx-all after JDK-8317751
JDK-8317965	TestLoadLibraryDeadlock.java fails with "Unable to load native library.: expected true, was false"

OpenJDK Patch ID	Synopsis
JDK-8317967	Enhance test/jdk/javax/net/ssl/TLSCommon/SSLEngineTestCase.java to handle default cases
JDK-8317971	RISC-V: implement copySignF/D and signumF/D intrinsics
JDK-8317975	[JVMCI] assert(pointee != nullptr) failed: invariant
JDK-8317977	update problemlist to include MacOS for sun/security/tools/keytool/NssTest.java
JDK-8317979	Use TZ database style abbreviations in the CLDR locale provider
JDK-8317987	C2 recompilations cause high memory footprint
JDK-8317994	Serial: Use SerialHeap in generation
JDK-8317998	Temporarily disable malformed control flow assert to reduce noise in testing
JDK-8318006	remove unused net related coding
JDK-8318015	Lock inflation not needed for OSR or Deopt for new locking modes
JDK-8318016	Per-compilation memory ceiling
JDK-8318027	Support alternative name to jdk.internal.vm.compiler
JDK-8318028	Remove unused class="centered" from FocusCycle.svg
JDK-8318029	Minor improvement to logging output in container at-requires
JDK-8318038	ProblemList runtime/CompressedOops/CompressedClassPointers.java on two platforms
JDK-8318040	ProblemList vmTestbase/nsk/monitoring/ThreadMXBean/findMonitorDeadlockedThreads/find006/TestDescription.java on macosx-aarch64
JDK-8318042	ProblemList java/nio/channels/vthread/BlockingChannelOps.java#direct-register with GenZGC
JDK-8318049	C2: assert(!failure) failed: Missed optimization opportunity in PhaselterGVN
JDK-8318051	Duration.between uses exceptions for control flow

OpenJDK Patch ID	Synopsis
JDK-8318071	IgnoreUnrecognizedVMOptions flag still causes failure in ArchiveHeapTestClass
JDK-8318072	DowncallLinker does not acquire/release segments in interpreter
JDK-8318078	ADLC: pass ASSERT and PRODUCT flags
JDK-8318082	ConcurrentModificationException from IndexWriter
JDK-8318085	ProblemList jdk/jfr/api/consumer/recordingstream/TestOnEvent.java on linux-aarch64
JDK-8318086	[jvmti] RISC-V: Reuse target config from TargetDescription
JDK-8318089	Class space not marked as such with NMT when CDS is off
JDK-8318091	Remove empty initIDs functions
JDK-8318096	Introduce AsymmetricKey interface with a getParams method
JDK-8318100	Remove redundant check for Metal support
JDK-8318101	Additional test cases for CSSAttributeEqualityBug
JDK-8318102	macos10.14 check in CSystemColors can be removed.
JDK-8318104	macOS 10.13 check in TabButtonAccessibility.m can be removed
JDK-8318107	Un-ProblemList LocaleProvidersRun and CalendarDataRegression
JDK-8318109	Writing JFR records while a CHT has taken its lock asserts in rank checking
JDK-8318113	CSS.BackgroundImage doesn't implement equals
JDK-8318124	JFR: Rewrite instrumentation to use Class-File API
JDK-8318126	Refresh manpages
JDK-8318130	SocksSocketImpl needlessly encodes hostname for IPv6 addresses
JDK-8318144	Match on enum constants with body compiles but fails with MatchException
JDK-8318150	StaticProxySelector.select should not throw NullPointerExceptions
JDK-8318154	Improve stability of WheelModifier.java test

OpenJDK Patch ID	Synopsis
JDK-8318155	Remove unnecessary virtual specifier in Space
JDK-8318157	RISC-V: implement ensureMaterializedForStackWalk intrinsic
JDK-8318159	RISC-V: Improve itable_stub
JDK-8318160	javac does not reject private method reference with type-variable receiver
JDK-8318175	AIX PPC64: Handle alignment of double in structs
JDK-8318180	Memory model reference from foreign package-info is broken
JDK-8318183	C2: VM may crash after hitting node limit
JDK-8318186	ChoiceFormat inconsistency between applyPattern() and setChoices()
JDK-8318189	ChoiceFormat::format throws undocumented AIOOBE
JDK-8318218	RISC-V: C2 CompressBits
JDK-8318219	RISC-V: C2 ExpandBits
JDK-8318222	RISC-V: C2 CmpU3
JDK-8318223	RISC-V: C2 CmpUL3
JDK-8318224	RISC-V: C2 UDivl
JDK-8318225	RISC-V: C2 UModl
JDK-8318226	RISC-V: C2 UModL
JDK-8318240	[AIX] Cleaners.java test failure
JDK-8318293	JEP 459: JLS Changes for String Templates (Second Preview)
JDK-8318294	Implement JEP 463: JLS Changes for Implicitly Declared Classes and Instance Main Methods (Second Preview)
JDK-8318295	Update launcher help for enable-native-access
JDK-8318296	Move Space::initialize to ContiguousSpace
JDK-8318306	java/util/Arrays/Sorting.java fails with "Array is not sorted at 8228-th position: 8251.0 and 8153.0"
JDK-8318322	Update IANA Language Subtag Registry to Version 2023-10-16

OpenJDK Patch ID	Synopsis
JDK-8318324	Drop redundant default methods from FFM API
JDK-8318328	DHKEM should check XDH name in case-insensitive mode
JDK-8318363	Foreign benchmarks fail to build on some platforms
JDK-8318364	Add an FFM-based implementation of harfbuzz OpenType layout
JDK-8318365	Test runtime/cds/appcds/sharedStrings/InternSharedString.java fails after JDK-8311538
JDK-8318383	Remove duplicated checks in os::get_native_stack() in posix implementation
JDK-8318410	jdk/java/lang/instrument/BootClassPath/BootClassPathTest.sh fails on Japanese Windows
JDK-8318415	Adjust describing comment of os_getChildren after 8315026
JDK-8318418	hsdis build fails with system binutils on Ubuntu
JDK-8318420	AbstractPipeline invokes overridden method in constructor
JDK-8318421	AbstractPipeline.sourceStageSpliterator() chases pointers needlessly
JDK-8318422	Allow poller threads be virtual threads
JDK-8318445	More broken bailout chains in C2
JDK-8318447	Move NMT source code to own subdirectory
JDK-8318448	Link PopupMenu/PopupMenuLocation.java failure to JDK-8259913
JDK-8318454	TestLayoutPaths broken on Big Endian platforms after JDK-8317837
JDK-8318455	Fix the compiler/sharedstubs/SharedTrampolineTest.java and SharedStubToInterpTest.java
JDK-8318457	Use prefix-less prepend methods directly to reduce branches in String concat expressions
JDK-8318458	Update javac and java manpages with restricted method options
JDK-8318466	Improve spec of NumberFormat's methods with unsupported operations

OpenJDK Patch ID	Synopsis
JDK-8318467	[jmh] tests concurrent.Queues and concurrent.ProducerConsumer hang with 101+ threads
JDK-8318468	compiler/tiered/LevelTransitionTest.java fails with -XX:CompileThreshold=100 -XX:TieredStopAtLevel=1
JDK-8318471	ProblemList compiler/sharedstubs/SharedTrampolineTest.java
JDK-8318474	Fix memory reporter for thread_count
JDK-8318476	Add resource consumption note to BigInteger and BigDecimal
JDK-8318479	[jmh] the test security.CacheBench failed for multiple threads run
JDK-8318480	Obsolete UseCounterDecay and remove CounterDecayMinIntervalLength
JDK-8318482	problemlist compiler/codecache/CheckLargePages.java on Linux-x64 until JDK-8317831 is fixed
JDK-8318484	Initial version of cdsConfig.hpp
JDK-8318485	Narrow klass shift should be zero if encoding range extends to 0x1_0000_0000
JDK-8318487	Specification of the ListFormat.equals() method can be improved
JDK-8318489	Remove unused alignment_unit and alignment_offset
JDK-8318490	Increase timeout for JDK tests that are close to the limit when run with libgraal
JDK-8318492	Http2ClientImpl should attempt to close and remove connection in stop()
JDK-8318507	G1: Improve remset clearing for humongous candidates
JDK-8318509	x86 count_positives intrinsic broken for -XX:AVX3Threshold=0
JDK-8318510	Serial: Remove TenuredGeneration::block_size
JDK-8318525	Atomic gtest should run as TEST_VM to access VM capabilities
JDK-8318528	Rename TestUnstructuredLocking test
JDK-8318538	Add a way to obtain a strided var handle from a layout
JDK-8318562	Computational test more than 2x slower when AVX instructions are used

OpenJDK Patch ID	Synopsis
JDK-8318569	Add getter methods for Locale and Patterns in ListFormat
JDK-8318573	The nsk.share.jpda.SocketConnection should fail if socket was closed.
JDK-8318580	"javax/swing/MultiMonitor/MultimonVImage.java failing with Error. Can't find library: /open/test/jdk/java/awt/regtesthelpers" after JDK-8316053
JDK-8318585	Rename CodeCache::UnloadingScope to UnlinkingScope
JDK-8318586	Explicitly handle upcall stub allocation failure
JDK-8318587	refresh libraries cache on AIX in print_vm_info
JDK-8318590	JButton ignores margin when painting HTML text
JDK-8318591	avoid leaks in loadlib_aix.cpp reload_table()
JDK-8318594	NMT: VM.native_memory crashes on assert if functionality isn't supported by OS
JDK-8318598	FFM stylistic cleanups
JDK-8318599	URLConnection cache issues leading to crashes in JGSS w/ native GSS introduced by 8303809
JDK-8318601	Remove javadoc text about restricted methods
JDK-8318607	Enable parallelism in vmTestbase/nsk/stress/jni tests
JDK-8318608	Enable parallelism in vmTestbase/nsk/stress/threads tests
JDK-8318609	Upcall stubs should be smaller
JDK-8318613	ChoiceFormat patterns are not well tested
JDK-8318622	ProblemList gc/cslocker/TestCSLocker.java on linux-x64 in Xcomp mode
JDK-8318626	GetClassFields does not filter out ConstantPool.constantPoolOop field
JDK-8318636	Add jcmd to print annotated process memory map
JDK-8318643	+UseTransparentHugePages must enable +UseLargePages
JDK-8318646	Integer#parseInt("") throws empty NumberFormatException message
JDK-8318647	Serial: Refactor BlockOffsetTable
JDK-8318649	G1: Remove unimplemented HeapRegionRemSet::add_code_root_locked

OpenJDK Patch ID	Synopsis
JDK-8318653	UpcallTestHelper::runInNewProcess waits for forked process without timeout
JDK-8318671	Potential uninitialized uintx value after JDK-8317683
JDK-8318677	(ch) Add implNote about minBufferCap to main variant of Channels.newWriter
JDK-8318678	Vector access on heap MemorySegments only works for byte[]
JDK-8318683	compiler/c2/irTests/TestPhiDuplicatedConversion.java "Failed IR Rules (2) of Methods (2)"
JDK-8318689	jtreg is confused when folder name is the same as the test name
JDK-8318691	runtime/CompressedOops/CompressedClassPointersEncodingScheme.java fails with release VMs
JDK-8318694	[JVMCI] disable can_call_java in most contexts for libjvmci compiler threads
JDK-8318700	MacOS Zero cannot run gtests due to wrong JVM path
JDK-8318701	Fix copyright year
JDK-8318702	G1: Fix nonstandard indentation in g1HeapTransition.cpp
JDK-8318705	[macos] ProblemList java/rmi/registry/multipleRegistries/MultipleRegistries.java
JDK-8318706	Implement JEP 423: Region Pinning for G1
JDK-8318709	Improve System.nanoTime performance on Windows
JDK-8318713	G1: Use more accurate age in predict_eden_copy_time_ms
JDK-8318720	G1: Memory leak in G1CodeRootSet after JDK-8315503
JDK-8318723	RISC-V: C2 UDivL
JDK-8318727	Enable parallelism in vmTestbase/vm/gc/concurrent tests
JDK-8318735	RISC-V: Enable related hotspot tests run on riscv
JDK-8318736	com/sun/jdi/JdwpOnThrowTest.java failed with "transport error 202: bind failed: Address already in use"

OpenJDK Patch ID	Synopsis
JDK-8318737	Fallback linker passes bad JNI handle
JDK-8318756	Create better internal buffer for AEADs
JDK-8318757	VM_ThreadDump asserts in interleaved ObjectMonitor::deflate_monitor calls
JDK-8318759	Add four DigiCert root certificates
JDK-8318776	Require supports_cx8 to always be true
JDK-8318788	java/net/Socks/SocksSocketProxySelectorTest.java fails on machines with no IPv6 link-local addresses
JDK-8318801	Parallel: Remove unused verify_all_young_refs_precise
JDK-8318805	RISC-V: Wrong comments instructions cost in riscv.ad
JDK-8318809	java/util/concurrent/ConcurrentLinkedQueue/WhiteBox.java shows intermittent failures on linux ppc64le and aarch64
JDK-8318811	Compiler directives parser swallows a character after line comments
JDK-8318817	Could not reserve enough space in CodeHeap 'profiled nmethods' (0K)
JDK-8318825	runThese failed with "unable to create native thread: possibly out of memory or process/resource limits reached"
JDK-8318826	C2: "Bad graph detected in build_loop_late" with incremental inlining
JDK-8318827	RISC-V: Improve readability of fclass result testing
JDK-8318834	s390x: Debug builds are missing debug helpers
JDK-8318837	javac generates wrong ldc instruction for dynamic constant loads
JDK-8318843	ProblemList java/lang/management/MemoryMXBean/CollectionUsageThreshold.java in Xcomp
JDK-8318850	Duplicate code in the LCMSImageLayout
JDK-8318854	[macos14] Running any AWT app prints Secure coding warning
JDK-8318889	C2: add bailout after assert Bad graph detected in build_loop_late

OpenJDK Patch ID	Synopsis
JDK-8318894	G1: Use uint for age in G1SurvRateGroup
JDK-8318895	Deoptimization results in incorrect lightweight locking stack
JDK-8318908	Parallel: Remove ExtendedCardValue
JDK-8318913	The module-infos for --release data do not contain pre-set versions
JDK-8318915	Enhance checks in BigDecimal.toPlainString()
JDK-8318940	[JVMCI] do not set HotSpotNmethod oop for a default HotSpotNmethod
JDK-8318951	Additional negative value check in JPEG decoding
JDK-8318953	RISC-V: Small refactoring for MacroAssembler::test_bit
JDK-8318955	Add ReleaseIntArrayElements in Java_sun_awt_X11_XlibWrapper_SetBitmapShape XlbWrapper.c to early return
JDK-8318957	Enhance agentlib:jdwp help output by info about allow option
JDK-8318959	C2: define MachNode::fill_new_machnode() statically
JDK-8318962	Update ProcessTools javadoc with suggestions in 8315097
JDK-8318964	Fix build failures caused by 8315097
JDK-8318971	Better Error Handling for Jar Tool When Processing Non-existent Files
JDK-8318981	compiler/compilercontrol/TestConflictInlineCommands.java fails intermittent with 'disallowed by CompileCommand' missing from stdout/stderr
JDK-8318982	Improve Exceptions::special_exception
JDK-8318983	Fix comment typo in PKCS12Passwd.java
JDK-8318986	Improve GenericWaitBarrier performance
JDK-8319046	Execute tests in source/class-file order in JavadocTester
JDK-8319048	Monitor deflation unlink phase prolongs time to safepoint
JDK-8319053	Segment dump files remain after parallel heap dump on Windows

OpenJDK Patch ID	Synopsis
JDK-8319067	ProblemList serviceability/AsyncGetCallTrace/MyPackage/ASGCTBaseTest.java on linux-aarch64 in Xcomp mode
JDK-8319072	JFR: Turn off events for JFR.view
JDK-8319103	Popups that request focus are not shown on Linux with Wayland
JDK-8319104	GtestWrapper crashes with SIGILL in AsyncLogTest::test_asynclog_raw on AIX opt
JDK-8319106	Remove unimplemented TaskTerminator::do_delay_step
JDK-8319111	Mismatched MemorySegment heap access is not consistently intrinsified
JDK-8319120	Unbound ScopedValue.get() throws the wrong exception
JDK-8319123	Implement JEP 461: Stream Gatherers (Preview)
JDK-8319124	Update XML Security for Java to 3.0.3
JDK-8319128	sun/security/pkcs11 tests fail on OL 7.9 aarch64
JDK-8319133	Implement JEP 463: Changes to annotation processing related to dropping unnamed classes
JDK-8319136	Skip pkcs11 tests on linux-aarch64
JDK-8319137	release _object in ObjectMonitor dtor to avoid races
JDK-8319139	Improve diagnosability of <code>JavadocTester</code> output
JDK-8319153	Fix: Class is a raw type in ProcessTools
JDK-8319165	hsdis binutils: warns on empty string as option string
JDK-8319166	Typos in the JavaDocs for MemorySegment
JDK-8319174	Enhance robustness of some j.m.BigInteger constructors
JDK-8319184	RISC-V: improve MD5 intrinsic
JDK-8319187	Add three eMudhra emSign roots
JDK-8319195	Move most tier 1 vector API regression tests to tier 3

OpenJDK Patch ID	Synopsis
JDK-8319196	ExecutableElement.getReceiverType doesn't return receiver types for methods loaded from bytecode
JDK-8319203	Parallel: Rename addr_is_marked_imprecise
JDK-8319204	G1: Change G1CMTask::_termination_time_ms to wallclock time
JDK-8319205	Parallel: Reenable work stealing after JDK-8310031
JDK-8319206	[REDO] Event NativeLibraryLoad breaks invariant by taking a stacktrace when thread is in state _thread_in_native
JDK-8319211	Regression in LoopOverNonConstantFP
JDK-8319213	Compatibility.java reads both stdout and stderr of JdkUtils
JDK-8319220	Pattern matching switch with a lot of cases is unduly slow
JDK-8319233	AArch64: Build failure with clang due to -Wformat-nonliteral warning
JDK-8319238	JMX ThreadPoolAccTest.java is too verbose and should fail before timeout
JDK-8319244	implement JVMTI handshakes support for virtual threads
JDK-8319253	[BACKOUT] Change LockingMode default from LM_LEGACY to LM_LIGHTWEIGHT
JDK-8319256	Print more diagnostic information when an unexpected user is found in a Phi
JDK-8319265	TestLoadLibraryDeadlock.java fails on windows-x64 "Unable to load b.jar"
JDK-8319268	Build failure with GCC8.3.1 after 8313643
JDK-8319300	Remove unused methods in WorkArounds and Utils
JDK-8319301	Static analysis warnings after JDK-8318016
JDK-8319306	Serial: Remove TenuredSpace::verify
JDK-8319310	putstatic/putfield: specify truncation of byte/short/char values
JDK-8319311	JShell Process Builder should be configurable
JDK-8319313	G1: Rename G1EvacFailureInjector appropriately

OpenJDK Patch ID	Synopsis
JDK-8319314	NMT detail report slow or hangs for large number of mappings
JDK-8319316	Clarify text around which layouts a linker supports
JDK-8319318	bufferedStream fixed case can be removed
JDK-8319323	FFM: Harmonize the @throws tags in the javadocs
JDK-8319324	FFM: Reformat javadocs
JDK-8319338	tools/jpackage/share/RuntimeImageTest.java fails with -XX:+UseZGC
JDK-8319339	Internal error on spurious markup in a hybrid snippet
JDK-8319372	C2 compilation fails with "Bad immediate dominator info"
JDK-8319373	Serial: Refactor dirty cards scanning during Young GC
JDK-8319374	JFR: Remove instrumentation for exception events
JDK-8319375	test/hotspot/jtreg/serviceability/jvmti/RedefineClasses/RedefineLeakThrowable.java runs into OutOfMemoryError: Metaspace on AIX
JDK-8319376	ParallelGC: Forwarded objects found during heap inspection
JDK-8319378	Spec for j.util.Timer::purge and j.util.Timer::cancel could be improved
JDK-8319379	G1: gc/logging/TestUnifiedLoggingSwitchStress.java crashes after JDK-8318894
JDK-8319406	x86: Shorter movptr(reg, imm) for 32-bit immediates
JDK-8319408	RISC-V: MaxVectorSize is not consistently checked in several situations
JDK-8319412	RISC-V: Simple fix of indent in c2_MacroAssembler_riscv.hpp
JDK-8319417	(dc) DatagramChannel.connect undocumented behavior
JDK-8319423	Improve Year.isLeap by checking divisibility by 16
JDK-8319429	Resetting MXCSR flags degrades ecore
JDK-8319436	Proxy.newProxyInstance throws NPE if loader is null and interface not visible from class loader
JDK-8319437	NMT should show library names in call stacks
JDK-8319439	Move BufferNode from PtrQueue files to new files

OpenJDK Patch ID	Synopsis
JDK-8319440	RISC-V: jdk can't be built with clang due to register keyword
JDK-8319444	Unhelpful failure output in TestLegalNotices
JDK-8319449	compiler/print/CompileCommandPrintMemStat.java fails on Graal
JDK-8319450	New methods java.net.InetAddress.ofLiteral() miss @since tag
JDK-8319455	Test compiler/print/CompileCommandMemLimit.java times out
JDK-8319456	jdk/jfr/event/gc/collection/TestGCCauseWith[Serial Parallel].java : GC cause 'GCLocker Initiated GC' not in the valid causes
JDK-8319462	Signature.ClassTypeSig::classDesc() incorrect for inner class types
JDK-8319465	Typos in javadoc of com.sun.management.OperatingSystemMXBean methods
JDK-8319498	ForkJoinPool.invoke(ForkJoinTask) does not specify behavior when task throws checked exception
JDK-8319525	RISC-V: Rename *_riscv64.ad files to *_riscv.ad under riscv/gc
JDK-8319531	FileServerHandler::discardRequestBody could be improved
JDK-8319532	jshell - Non-sealed declarations sometimes break a snippet evaluation
JDK-8319541	G1: Inline G1RemoveSelfForwardsTask into RestoreRetainedRegionsTask
JDK-8319542	Fix boundaries of region to be tested with os::is_readable_range
JDK-8319554	Select LogOutput* directly for stdout and stderr
JDK-8319556	Harmonize interface formatting in the FFM API
JDK-8319559	[JVMCI] ensureLinked must be able to call Java
JDK-8319560	Reformat method parameters in the FFM API
JDK-8319563	Reformat code in the FFM API
JDK-8319567	Update java/lang/invoke tests to support vm flags
JDK-8319568	Update java/lang/reflect/exeCallerAccessTest/CallerAccessTest.java to accept vm flags
JDK-8319569	Several java/util tests should be updated to accept VM flags

OpenJDK Patch ID	Synopsis
JDK-8319572	Test <code>jdk/incubator/vector/LoadJsvmlTest.java</code> ignores VM flags
JDK-8319574	Exec/process tests should be marked as flagless
JDK-8319607	FFM: Review the language in the FFM documentation
JDK-8319613	Compiler error in benchmark <code>TestLoadSegmentVarious</code>
JDK-8319615	IGV incomplete gitignore
JDK-8319620	Parallel: Remove unused <code>PSPromotionManager::*_is_full</code> getters and setters
JDK-8319628	<code>DateFormat</code> does not mention <code>IllegalArgumentException</code> for invalid style args
JDK-8319630	Monitor final audit log lacks separator
JDK-8319633	<code>runtime/posixSig/TestPosixSig.java</code> intermittent timeouts on UNIX
JDK-8319640	<code>ClassicFormat::parseObject</code> (from <code>DateTimeFormatter</code>) does not conform to the javadoc and may leak <code>DateTimeException</code>
JDK-8319649	<code>inline_boxing_calls</code> unused gvn variable
JDK-8319650	Improve heap dump performance with class metadata caching
JDK-8319662	<code>ForkJoinPool</code> trims worker threads too slowly
JDK-8319664	IGV always output on <code>PhaseRemoveUseless</code>
JDK-8319665	[macOS] Obsolete imports of <code><Carbon/Carbon.h></code> in <code>java.desktop</code>
JDK-8319668	Fixup of jar filename typo in <code>BadFactoryTest.sh</code>
JDK-8319670	Improve comments describing system properties for TLS server and client for max chain length
JDK-8319672	Several classloader tests ignore VM flags
JDK-8319676	A couple of <code>jdk/modules/incubator/</code> tests ignore VM flags
JDK-8319677	Test <code>jdk/internal/misc/VM/RuntimeArguments.java</code> should be marked as flagless
JDK-8319700	[AArch64] C2 compilation fails with "Field too big for insn"

OpenJDK Patch ID	Synopsis
JDK-8319703	Serial: Remove generationSpec
JDK-8319704	LogTagSet::set_output_level() should not accept NULL as LogOutput
JDK-8319705	RISC-V: signumF/D intrinsics fails compiler/intrinsics/math/TestSignumIntrinsic.java
JDK-8319713	Parallel: Remove PSAdaptiveSizePolicy::should_full_GC
JDK-8319725	G1: Subtracting virtual time from wall time after JDK-8319204
JDK-8319726	Parallel GC: Re-use object in object-iterator
JDK-8319747	galoisCounterMode_AESCrypt stack walking broken
JDK-8319748	[JVMCI] TestUseCompressedOopsFlagsWithUlimit.java crashes on libgraal
JDK-8319753	Duration javadoc has "period" instead of "duration" in several places
JDK-8319757	java/nio/channels/DatagramChannel/InterruptibleOrNot.java failed: wrong exception thrown
JDK-8319764	C2 compilation asserts during incremental inlining because Phi input is out of bounds
JDK-8319777	Zero: Support 8-byte cmpxchg
JDK-8319778	Remove unreachable code in ObjectSynchronizer::exit
JDK-8319781	RISC-V: Refactor UseRVV related checks
JDK-8319784	VM crash during heap dump after JDK-8287061
JDK-8319813	Remove upper limit on number of compiler phases in phasetype.hpp
JDK-8319817	Charset constructor should make defensive copy of aliases
JDK-8319818	Address GCC 13.2.0 warnings (stringop-overflow and dangling-pointer)
JDK-8319820	Use unnamed variables in the FFM implementation
JDK-8319825	jdk.net/jdk.net.ExtendedSocketOptions::IP_DONTFRAGMENT is missing @since 19

OpenJDK Patch ID	Synopsis
JDK-8319828	runtime/NMT/VirtualAllocCommitMerge.java may fail if mixing interpreted and compiled native invocations
JDK-8319872	AArch64: [vectorapi] Implementation of unsigned (zero extended) casts
JDK-8319876	Reduce memory consumption of VM_ThreadDump::doit
JDK-8319879	Stress mode to randomize incremental inlining decision
JDK-8319882	SequenceLayout::toString throws ArithmeticException
JDK-8319883	Zero: Use atomic built-ins for 64-bit accesses
JDK-8319896	Remove monitor deflation from final audit
JDK-8319897	Move StackWatermark handling out of LockStack::contains
JDK-8319925	CSS.BackgroundImage incorrectly uses double-checked locking
JDK-8319927	Log that IEEE rounding mode was corrupted by loading a library
JDK-8319928	Exceptions thrown by cleanup actions should be handled correctly
JDK-8319935	Ensure only one JvmtiThreadState is created for one JavaThread associated with attached native thread
JDK-8319938	TestFileChooserSingleDirectorySelection.java fails with "getSelectedFiles returned empty array"
JDK-8319944	Remove DynamicDumpSharedSpaces
JDK-8319948	jcmm man page needs to be updated
JDK-8319955	Improve dependencies removal during class unloading
JDK-8319958	test/jdk/java/io/File/libGetXSpace.c does not compile on Windows 32-bit
JDK-8319960	RISC-V: compiler/intrinsics/TestInteger/LongUnsignedDivMod.java failed with "counts: Graph contains wrong number of nodes"
JDK-8319961	JvmtiEnvBase doesn't zero _ext_event_callbacks
JDK-8319966	AIX: expected [[0:i4]] but found [[0:l4]] after JDK-8319882
JDK-8319969	os::large_page_init() turns off THPs for ZGC

OpenJDK Patch ID	Synopsis
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-8319980	[JVMCI] libgraal should reuse Thread instances as C2 does
JDK-8319985	Delete sun.awt.windows.WToolkit.embedded*() API
JDK-8319986	Invalid/inconsistent description and example for DateFormat
JDK-8319987	compilation of sealed classes leads to infinite recursion
JDK-8319988	Wrong heading for inherited nested classes
JDK-8319999	Refactor MetaspaceShared::use_full_module_graph()
JDK-8320001	javac crashes while adding type annotations to the return type of a constructor
JDK-8320049	PKCS10 would not discard the cause when throw SignatureException on invalid key
JDK-8320052	Zero: Use __atomic built-ins for atomic RMW operations
JDK-8320054	Remove unused _count from NMT walker classes
JDK-8320061	[nmt] Multiple issues with peak accounting
JDK-8320129	"top" command during jtreg failure handler does not display CPU usage on OSX
JDK-8320130	Problemlist 2 vmTestbase/nsk/jdi/StepRequest/addClassFilter_rt tests with Xcomp
JDK-8320131	Zero build fails on macOS after JDK-8254693
JDK-8320144	Compilation crashes when a custom annotation with invalid default value is used
JDK-8320145	Compiler should accept final variable in Record Pattern
JDK-8320147	Remove DumpSharedSpaces
JDK-8320168	handle setsockopt return values

OpenJDK Patch ID	Synopsis
JDK-8320175	[BACKOUT] 8316533: C2 compilation fails with assert(verify(phase)) failed: missing Value() optimization
JDK-8320192	SHAKE256 does not work correctly if n >= 137
JDK-8320199	Fix HTML 5 errors in java.math.BigInteger
JDK-8320206	Some intrinsics/stubs missing vzeroupper on x86_64
JDK-8320207	doclet incorrectly chooses code font for a See Also link
JDK-8320208	Update Public Suffix List to b5bf572
JDK-8320209	VectorMaskGen clobbers rflags on x86_64
JDK-8320212	Disable GCC stringop-overflow warning for affected files
JDK-8320222	Wrong bytecode accepted, and StackMap table generated
JDK-8320234	Merge doclint.Env.AccessKind with tool.AccessKind
JDK-8320239	add dynamic switch for JvmtiVTMSTransitionDisabler sync protocol
JDK-8320249	tools/jpackage/share/AddLauncherTest.java#id1 fails intermittently on Windows in verifyDescription
JDK-8320272	Make method_entry_barrier address shared
JDK-8320275	assert(_chunk->bitmap().at(index)) failed: Bit not set at index
JDK-8320278	ARM32 build is broken after JDK-8301997
JDK-8320280	RISC-V: Avoid passing t0 as temp register to MacroAssembler::lightweight_lock/unlock
JDK-8320300	Adjust hs_err output in malloc/mmap error cases
JDK-8320303	Allow PassFailJFrame to accept single window creator
JDK-8320304	Refactor and simplify monitor deflation functions
JDK-8320309	AIX: pthreads created by foreign test library don't work as expected
JDK-8320330	Improve implementation of RShift Value
JDK-8320331	G1 Full GC Heap verification relies on metadata not reset before verification

OpenJDK Patch ID	Synopsis
JDK-8320335	Deprecate <code>RegisterFinalizersAtInit</code> option and code
JDK-8320347	Emulate <code>vblendvp[sd]</code> on ECore
JDK-8320348	<code>test/jdk/java/io/File/GetAbsolutePath.windowsDriveRelative</code> fails if working directory is not on drive C
JDK-8320349	Simplify <code>FileChooserSymLinkTest.java</code> by using single-window testUI
JDK-8320361	Doc error in <code>RemoteRecordingStream.java</code>
JDK-8320363	ppc64 <code>TypeEntries::type_unknown</code> logic looks wrong, missed optimization opportunity
JDK-8320365	<code>IPPPrintService.getAttributes()</code> causes blanket re-initialisation
JDK-8320368	Per-CPU optimization of <code>Klass</code> range reservation
JDK-8320370	NMT: Change <code>MallocMemorySnapshot</code> to simplify code.
JDK-8320372	<code>test/jdk/sun/security/x509/DNSName/LeadingPeriod.java</code> validity check failed
JDK-8320379	C2: Sort spilling/unspilling sequence for better <code>ld/st</code> merging into <code>ldp/stp</code> on AArch64
JDK-8320382	Remove <code>CompressedKlassPointers::is_valid_base()</code>
JDK-8320383	refresh libraries cache on AIX in <code>VMError::report</code>
JDK-8320386	Remove <code>java/nio/channels/vthread/BlockingChannelOps.java#direct-register</code> from <code>ProblemList</code>
JDK-8320399	RISC-V: Some format clean-up in opto assembly code
JDK-8320403	C2: <code>PrintIdeal</code> is no longer dumped to <code>tty</code> when <code>xTTY</code> is set
JDK-8320418	PPC64: <code>invokefinal_helper</code> duplicates code to handle <code>ResolvedMethodEntry</code>
JDK-8320440	Implementation of Structured Concurrency (Second Preview)
JDK-8320443	[macos] Test <code>java/awt/print/PrinterJob/PrinterDevice.java</code> fails on macOS
JDK-8320447	Remove obsolete <code>LintCategory.hidden</code>

OpenJDK Patch ID	Synopsis
JDK-8320515	assert(monitor≠object_peek() != nullptr) failed: Owned monitors should not have a dead object
JDK-8320525	G1: G1UpdateRemSetTrackingBeforeRebuild::distribute_marked_bytes accesses partially unloaded klass
JDK-8320530	has_resolved_ref_index flag not restored after resetting entry
JDK-8320533	Adjust capstone integration for v6 changes
JDK-8320536	problemlist failing serviceability/attach/ConcAttachTest.java test on macosx
JDK-8320538	Obsolete CSS styles in collection framework doc-file
JDK-8320564	RISC-V: Minimal build failed after JDK-8316592
JDK-8320570	NegativeArraySizeException decoding >1G UTF8 bytes with non-ascii characters
JDK-8320577	Improve MessageHeader's toString() function to make HttpURLConnection's debug log readable
JDK-8320581	Clarify the conversions permitted in pattern matching
JDK-8320582	Zero: Misplaced CX8 enablement flag
JDK-8320586	update manual test/jdk/TEST.groups
JDK-8320601	ProblemList java/lang/invoke/lambda/LambdaFileEncodingSerialization.java on linux-all
JDK-8320602	Lock contention in SchemaDVFactory.getInstance()
JDK-8320608	Many jtreg printing tests are missing the @printer keyword
JDK-8320618	NPE: Cannot invoke "java.lang.constant.ClassDesc.isArray()" because "this.sym" is null
JDK-8320645	DocLint should use javax.lang.model to detect default constructors
JDK-8320652	ThreadInfo.isInNative needs to be updated to say what executing native code means

OpenJDK Patch ID	Synopsis
JDK-8320655	awt screencast robot spin and sync issues with native libpipewire api
JDK-8320665	update jdk_core at open/test/jdk/TEST.groups
JDK-8320679	[JVMCI] invalid code in PushLocalFrame event message
JDK-8320681	[macos] Test tools/jpackage/macosx/MacAppStoreJlinkOptionsTest.java timed out on macOS
JDK-8320682	[AArch64] C1 compilation fails with "Field too big for insn"
JDK-8320687	sun.jvmstat.monitor.MonitoredHost.getMonitoredHost() throws unexpected exceptions when invoked concurrently
JDK-8320697	RISC-V: Small refactoring for runtime calls
JDK-8320706	RuntimePackageTest.testUsrInstallDir test fails on Linux
JDK-8320714	java/util/Locale/LocaleProvidersRun.java and java/util/ResourceBundle/modules/visibility/VisibilityTest.java timeout after passing
JDK-8320715	Improve the tests of test/hotspot/jtreg/compiler/intrinsics/float16
JDK-8320716	ResolvedModule::reads includes self when configuration contains two or more automatic modules
JDK-8320781	Fix whitespace in j.l.Double and j.u.z.ZipInputStream @snippets
JDK-8320788	The system properties page is missing some properties
JDK-8320798	Console read line with zero out should zero out underlying buffer
JDK-8320803	Update SourceVersion.RELEASE_22 description for language changes
JDK-8320805	JFR: Create view for deprecated methods
JDK-8320806	Augment test/langtools/tools/javac/versions/Versions.java for JDK 22 language changes
JDK-8320807	[PPC64][ZGC] C1 generates wrong code for atomics
JDK-8320826	call allocate_shared_strings_array after all strings are interned
JDK-8320830	[AIX] Dont mix os::dll_load() with direct dlclose() calls

OpenJDK Patch ID	Synopsis
JDK-8320858	Move jpackage tests to tier3
JDK-8320859	gtest high malloc footprint caused by BufferNodeAllocator stress test
JDK-8320860	add-opens/add-exports require '=' in JAVA_TOOL_OPTIONS
JDK-8320877	Shenandoah: Remove ShenandoahUnloadClassesFrequency support
JDK-8320886	Unsafe_SetMemory0 is not guarded
JDK-8320888	Shenandoah: Enable ShenandoahVerifyOptoBarriers in debug builds
JDK-8320892	AArch64: Restore FPU control state after JNI
JDK-8320898	exclude compiler/vectorapi/reshape/TestVectorReinterpret.java on ppc64(le) platforms
JDK-8320907	Shenandoah: Remove ShenandoahSelfFixing flag
JDK-8320911	RISC-V: Enable hotspot/jtreg/compiler/intrinsics/chacha/TestChaCha20.java
JDK-8320916	jdk/jfr/event/gc/stacktrace/TestParallelMarkSweepAllocationPendingStackTrace.java failed with "OutOfMemoryError: GC overhead limit exceeded"
JDK-8320918	Fix errors in the built-in Catalog implementation
JDK-8320919	Clarify Locale related system properties
JDK-8320924	Improve heap dump performance by optimizing archived object checks
JDK-8320935	Move CDS config initialization code to cdsConfig.cpp
JDK-8320937	support latest VS2022 MSC_VER in abstract_vm_version.cpp
JDK-8320940	Fix typo in java.lang.Double
JDK-8320941	Discuss receiver type handling
JDK-8320943	Files/probeContentType/Basic.java fails on latest Windows 11 - content type mismatch
JDK-8320945	problemlist tests failing on latest Windows 11 update
JDK-8320948	NPE due to unreported compiler error
JDK-8320969	Shenandoah: Enforce stable number of GC workers

OpenJDK Patch ID	Synopsis
JDK-8321001	RISC-V: C2 SignumVF
JDK-8321002	RISC-V: C2 SignumVD
JDK-8321013	Parallel: Refactor ObjectStartArray
JDK-8321018	Parallel: Make some methods in ParCompactionManager private
JDK-8321025	Enable Neoverse N1 optimizations for Neoverse V2
JDK-8321053	Use ByteArrayInputStream.buf directly when parameter of transferTo() is trusted
JDK-8321059	Unneeded array assignments in MergeCollation and CompactByteArray
JDK-8321063	AArch64: Zero build fails after JDK-8320368
JDK-8321066	Multiple JFR tests have started failing
JDK-8321069	JvmtiThreadState::state_for_while_locked() returns nullptr for an attached JNI thread with a java.lang.Thread object after JDK-8319935
JDK-8321073	Defer policy of disabling annotation processing by default
JDK-8321105	Enable UseCryptoPmullForCRC32 for Neoverse V2
JDK-8321107	Add more test cases for JDK-8319372
JDK-8321114	Rename "Unnamed Classes" to "Implicitly Declared Classes" better
JDK-8321119	Disable java/foreign/TestHandshake.java on Zero VMs
JDK-8321120	Shenandoah: Remove ShenandoahElasticTLAB flag
JDK-8321122	Shenandoah: Remove ShenandoahLoopOptsAfterExpansion flag
JDK-8321124	java/util/stream/GatherersTest.java times out
JDK-8321127	ProblemList java/util/stream/GatherersTest.java
JDK-8321130	Microbenchmarks do not build any more after 8254693 on 32 bit platforms
JDK-8321131	Console read line with zero out should zero out underlying buffer in JLine
JDK-8321141	VM build issue on MacOS after JDK-8267532
JDK-8321159	SymbolLookup.libraryLookup(Path, Arena) Assumes default Filesystem

OpenJDK Patch ID	Synopsis
JDK-8321163	[test] OutputAnalyzer.getExitValue() unnecessarily logs even when process has already completed
JDK-8321164	javac with annotation processor throws AssertionError: Filling jrt:/... during JarFileObject[...]
JDK-8321182	SourceExample.SOURCE_14 comment should refer to 'switch expressions' instead of 'text blocks'
JDK-8321183	Incorrect warning from cds about the modules file
JDK-8321207	javac is not accepting correct code
JDK-8321214	Parallel: Remove unused SpaceInfo::_min_dense_prefix
JDK-8321215	Incorrect x86 instruction encoding for VSIB addressing mode
JDK-8321216	SerialGC attempts to access the card table beyond the end of the heap during card table scan
JDK-8321219	runtime/jni/FastGetField: assert(is_interpreted_frame()) failed: interpreted frame expected
JDK-8321220	JFR: RecordedClass reports incorrect modifiers
JDK-8321223	Implementation of Scoped Values (Second Preview)
JDK-8321224	ct.sym for JDK 22 contains references to internal modules
JDK-8321225	[JVMCI] HotSpotResolvedObjectTypeInfo.isLeafClass shouldn't create strong references
JDK-8321226	JDK22 update task definition for client
JDK-8321248	ClassFile API ClassModel::verify is inconsistent with the rest of the API
JDK-8321269	Require platforms to define DEFAULT_CACHE_LINE_SIZE
JDK-8321270	Virtual Thread.yield consumes parking permit
JDK-8321273	Parallel: Remove unused UpdateOnlyClosure::_space_id
JDK-8321276	runtime/cds/appcds/dynamicArchive/DynamicSharedSymbols.java failed with "'17 2: jdk/test/lib/apps ' missing from stdout/stderr"
JDK-8321300	Cleanup TestHFA

OpenJDK Patch ID	Synopsis
JDK-8321307	Don't run in ATR duplicated and linux-x64 specific tasks on linux-aarch64
JDK-8321325	Remove unused Java_java_aws_MenuComponent_initIDs function
JDK-8321369	Unproblemlist gc/cslocker/TestCSLocker.java
JDK-8321387	SegmentAllocator:allocateFrom(AddressLayout, MemorySegment) does not throw stated UnsupportedOperationException
JDK-8321400	java/foreign/TestStubAllocFailure.java fails with code cache exhaustion
JDK-8321406	Null IDs should be resolved as before catalogs are added
JDK-8321409	Console read line with zero out should zero out underlying buffer in JLine (redux)
JDK-8321410	Shenandoah: Remove ShenandoahSuspendibleWorkers flag
JDK-8321422	Test gc/g1/pinnedobjs/TestPinnedObjectTypes.java times out after completion
JDK-8321467	MemorySegment.setString(long, String, Charset) throws IAE(Misaligned access)
JDK-8321470	ThreadLocal.nextHashCode can be static final
JDK-8321479	java -D-D crashes
JDK-8321480	ISO 4217 Amendment 176 Update
JDK-8321484	Make TestImplicitlyDeclaredClasses release independent
JDK-8321505	JFR: Update views
JDK-8321514	UTF16 string gets constructed incorrectly from codepoints if CompactStrings is not enabled
JDK-8321515	ARM32: Move method resolution information out of the cpCache properly
JDK-8321519	Typo in exception message
JDK-8321539	Minimal build is broken by JDK-8320935
JDK-8321542	C2: Missing ChaCha20 stub for x86_32 leads to crashes
JDK-8321565	[REDO] Heap dump does not contain virtual Thread stack references

OpenJDK Patch ID	Synopsis
JDK-8321582	yield <primitive-type>.class not parsed correctly.
JDK-8321599	Data loss in AVX3 Base64 decoding
JDK-8321619	Generational ZGC: ZColorStoreGoodOopClosure is only valid for young objects
JDK-8321641	ClassFile ModuleAttribute.ModuleAttributeBuilder::moduleVersion spec contains a copy-paste error
JDK-8321683	Tests fail with AssertionError in RangeWithPageSize
JDK-8321685	Missing ResourceMark in code called from JvmtiEnvBase::get_vthread_jvf
JDK-8321712	C2: "failed: Multiple uses of register" in C2_MacroAssembler::vminmax_fp
JDK-8321739	Source launcher fails with "Not a directory" error
JDK-8321786	SegmentAllocator:allocateFrom(ValueLayout, MemorySegment, ValueLayout, long, long) spec mismatch in exception scenario
JDK-8321938	java/foreign/critical/TestCriticalUpcall.java does not need a core file
JDK-8321958	@param/@return descriptions of ZoneRules#isDaylightSavings() are incorrect
JDK-8321974	Crash in ciKlass::is_subtype_of because TypeAryPtr::_klass is not initialized
JDK-8322003	JShell - Incorrect type inference in lists of records implementing interfaces
JDK-8322041	JDK 22 RDP1 L10n resource files update
JDK-8322066	Update troff manpages in JDK 22 before RC
JDK-8322100	Fix GCMIncrementByte4 & GCMIncrementDirect4, and increase overlap testing
JDK-8322142	JFR: Periodic tasks aren't orphaned between recordings
JDK-8322154	RISC-V: JDK-8315743 missed change in MacroAssembler::load_reserved
JDK-8322163	runtime/Unsafe/InternalErrorTest.java fails on Alpine after JDK-8320886

OpenJDK Patch ID	Synopsis
JDK-8322214	Return value of XMLInputFactory.getProperty() changed from boolean to String in JDK 22 early access builds
JDK-8322235	Split up and improve LocaleProvidersRun
JDK-8322237	Heap dump contains duplicate thread records for mounted virtual threads
JDK-8322282	Incorrect LoaderConstraintTable::add_entry after JDK-8298468
JDK-8322321	Add man page doc for -XX:+VerifySharedSpaces
JDK-8322324	java/foreign/TestStubAllocFailure.java times out while waiting for forked process
JDK-8322330	JavadocHelperTest.java OOMs with Parallel GC and ZGC
JDK-8322418	Problem list gc/TestAllocHumongousFragment.java subtests for 8298781
JDK-8322489	22-b27: Up to 7% regression in all Footprint3-*-G1/ZGC
JDK-8322512	StringBuffer.repeat does not work correctly after toString() was called
JDK-8322532	JShell : Unnamed variable issue
JDK-8322538	remove fatal from JVM_VirtualThread functions for !INCLUDE_JVMTI
JDK-8322637	java/foreign/critical/TestCriticalUpcall.java timed out
JDK-8322647	Short name for the <code>Europe/Lisbon</code> time zone is incorrect
JDK-8322657	CDS filemap fastdebug assert while loading Graal CE Polyglot in isolated classloader
JDK-8322725	(tz) Update Timezone Data to 2023d
JDK-8322750	Test "api/java_awt/interactive/SystemTrayTests.html" failed because A blue ball icon is added outside of the system tray
JDK-8322799	Test JPKG003-013: ServiceTest fails because the user cannot uninstall the "servicetest" package on OEL 9.2 x64 and OEL 9.2 64-bit Arm (aarch64)
JDK-8322809	SystemModulesMap::classNames and moduleName arrays do not match the order

OpenJDK Patch ID	Synopsis
JDK-8322818	Thread::getStackTrace can fail with InternalError if virtual thread is timed-parked when pinned
JDK-8322846	Running with -Djdk.tracePinnedThreads set can hang
JDK-8322957	Generational ZGC: Relocation selection must join the STS
JDK-8322971	KEM.getInstance() should check if a 3rd-party security provider is signed
JDK-8322985	[BACKOUT] 8318562: Computational test more than 2x slower when AVX instructions are used
JDK-8322987	Remove gc/stress/gclocker/TestGCLocker* since they always fail with OOME
JDK-8323002	test/jdk/java/lang/Thread/virtual/stress/GetStackTraceALotWhenPinned.java times out on macosx-x64
JDK-8323066	gc/g1/TestSkipRebuildRemsetPhase.java fails with 'Skipping Remembered Set Rebuild.' missing
JDK-8323101	C2: assert(nin(0) == nullptr) failed: divisions with zero check should already have bailed out earlier in split-if
JDK-8323159	Consider adding some text re. memory zeroing in Arena::allocate
JDK-8323190	Segfault during deoptimization of C2-compiled code
JDK-8323241	jcmm manpage should use lists for argument lists
JDK-8323243	JNI invocation of an abstract instance method corrupts the stack
JDK-8323296	java/lang/Thread/virtual/stress/GetStackTraceALotWhenPinned.java#id1 timed out
JDK-8323508	Remove TestGCLockerWithShenandoah.java line from TEST.groups
JDK-8323540	assert!((((method)is_trace_flag_set(((1 << 4) << 8)))) failed: invariant
JDK-8323547	tools/jlink/plugins/SystemModuleDescriptors/ModuleMainClassTest.java fails to compile
JDK-8323571	Regression in source resolution process

OpenJDK Patch ID	Synopsis
JDK-8323595	is_aligned(p, alignof(OopT))) assertion fails in Jetty without compressed OOPs
JDK-8323610	G1: HeapRegion pin count should be size_t to avoid overflows
JDK-8323631	JfrTypeSet::write_class can enqueue a CLD class that is unloading
JDK-8323651	compiler/c2/irTests/TestPrunedExHandler.java fails with -XX:+DeoptimizeALot
JDK-8323659	LinkedTransferQueue add and put methods call overridable offer
JDK-8323745	Missing comma in copyright header in TestScope
JDK-8323950	Null CLD while loading shared lambda proxy class with javaagent active
JDK-8324041	ModuleOption.java failed with update release versioning scheme
JDK-8324074	increase timeout for jvnci test TestResolvedJavaMethod.java
JDK-8324082	more monitoring test timeout adjustments
JDK-8324688	C2: Disable ReduceAllocationMerges by default
JDK-8324858	[vectorapi] Bounds checking issues when accessing memory segments
JDK-8324983	Race in CompileBroker::possibly_add_compiler_threads
JDK-8325001	Typo in the javadocs for the Arena::ofShared method
JDK-8325096	Test java/security/cert/CertPathBuilder/akiExt/AKISerialNumber.java is failing

OpenJFX Fixes and Enhancements

The following table describes the JavaFX changes implemented in this release.

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8087368	java runtime environment error when trying to execute showAndWait() function	window-toolkit
JDK-8087700	[KeyCombination, Mac] KeyCharacterCombinations behave erratically	window-toolkit

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8159048	Animation and AnimationTimer methods must be called on JavaFX Application thread	animation
JDK-8185831	Pseudo selectors do not appear to work in Node.lookupAll()	scenegraph
JDK-8187314	All Cells: must show backing data always	controls
JDK-8189282	JavaFX: Invalid position of candidate pop-up of InputMethod in Hi-DPI on Windows	graphics
JDK-8199216	Quadratic layout time with nested nodes and pseudo-class in style sheet	scenegraph
JDK-8205067	Resizing window with TextField hides text value	controls
JDK-8221261	Deadlock on macOS in JFXPanel app when handling IME calls	window-toolkit
JDK-8222209	JavaFX is rendered blurry on systems with monitors in different configuration	swing
JDK-8248914	Javafx TextField positions the cursor incorrectly after pressing DEL key	controls
JDK-8251240	Menus inaccessible on Linux with i3 wm	window-toolkit
JDK-8254126	the position of Chinese Input Method candidates window is wrong	graphics
JDK-8255079	RobotTest::testPixelCaptureAverage fails intermittently on Windows with HiDPI scaling	window-toolkit
JDK-8255835	[macOS] Undecorated stage cannot be maximized	window-toolkit
JDK-8260342	FXMLLoader fails to load a sub layout using fx:include with the resources attribute	fxml
JDK-8262518	SwingNode.setContent does not close previous content, resulting in memory leak	swing
JDK-8269921	TextFlow: listeners on bounds can throw NPE while computing text bounds	graphics

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8274932	Render scales in EmbeddedWindow are not properly updated	swing
JDK-8274967	KeyCharacterCombinations for punctuation and symbols fail on non-US keyboards	window-toolkit
JDK-8282290	TextField Cursor Position one off	controls
JDK-8283401	ArrayIndexOutOfBoundsException when disconnecting screen(s)	graphics
JDK-8283675	Line not removed from LineChart when series cleared	controls
JDK-8284445	macOS 12 prints a warning when a function key shortcut is assigned to a menu	window-toolkit
JDK-8284544	[Win] Name-Property of Spinner cannot be changed	accessibility
JDK-8285700	[TreeTableView] graphic property of TreeItem is still visible after collapsing tree	controls
JDK-8298500	Create test to initially show stage with various attributes (iconified, maximized, full screen)	window-toolkit
JDK-8301219	JavaFX crash when closing with the escape key	window-toolkit
JDK-8301302	Platform preferences API	graphics
JDK-8301893	IME window position is off on secondary screen	graphics
JDK-8303478	DatePicker throws uncatchable exception on tab out from garbled text	controls
JDK-8303826	Add FX test for JDK-8252255	swing
JDK-8305675	[macos] Stage set to iconified before being shown is displayed on screen	window-toolkit
JDK-8305709	[testbug] Tree/TableViewResizeColumnToFitContentTest fails with fractional screen scale	controls
JDK-8306083	Text.hitTest is incorrect when more than one Text node in TextFlow	graphics
JDK-8307176	Monkey Tester Application Part 2	controls

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8307316	Let JavaFX be built on unknown architectures	build
JDK-8307536	FileAlreadyExistsException from NativeLibLoader when running concurrent applications with empty cache	graphics
JDK-8308608	[testbug] Use Util::waitForIdle instead of Toolkit::firePulse in system tests	controls
JDK-8309558	Create implementation of NSAccessibilityCheckBox protocol	accessibility
JDK-8309629	Create implementation of NSAccessibilityRadioButton protocol	accessibility
JDK-8310666	gradle validateSourceSets task not run when TEST_ONLY=true	build
JDK-8310681	Update WebKit to 616.1	web
JDK-8310847	[Mac] Silence OpenGL deprecation warnings	graphics
JDK-8310885	Width/height of window is not set after calling sizeToScene	graphics
JDK-8311097	Synchron XMLHttpRequest not receiving data	web
JDK-8311185	VirtualFlow jump when cellcount changes	controls
JDK-8311216	DataURI can lose information in some charset environments	graphics
JDK-8311806	Class ButtonAccessibility is implemented twice	accessibility
JDK-8311983	ListView sometimes throws an IndexOutOfBoundsException	controls
JDK-8312058	Documentation improvements for subscription based listeners	base
JDK-8312528	Move Subscription interface from javafx.beans to javafx.util	base
JDK-8313177	Web Workers timeout with Webkit 616.1	web

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8313181	Enabling modern media controls on webkit 616.1 does not load button images on HTML5 video Element	web
JDK-8313227	Correct attenuation indicator for removed lights	graphics
JDK-8313321	Set minimum python version in WebKit cmake scripts	web
JDK-8313628	Column drag header, overlay and line are not correctly aligned	controls
JDK-8313648	JavaFX application continues to show a black screen after graphic card driver crash	graphics
JDK-8313651	Add 'final' keyword to public property methods in controls	controls
JDK-8313711	Cherry-pick WebKit 616.1 stabilization fixes	web
JDK-8313799	Remove lockItemOnEdit flag from (Tree)TableCell	controls
JDK-8313856	Replace VLA with malloc in pango	graphics
JDK-8313900	Possible NULL pointer access in NativeAudioSpectrum and NativeVideoBuffer	media
JDK-8313956	focusWithin on parents of a newly-added focused node is not updated	scenegraph
JDK-8314064	Enable building JavaFX on native Windows AArch64 (ARM64)	build
JDK-8314141	Missing default for switch in CreateBitmap	graphics
JDK-8314149	Clipboard does inexact string comparison on mime type	window-toolkit
JDK-8314212	Crash when loading cnn.com in WebView	web
JDK-8314266	Several test failures after fix for JDK-8159048	other
JDK-8314484	Update Gradle to 8.4	build
JDK-8314486	JavaFX build uses deprecated features that will be removed in gradle 8	build

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8314589	javadoc build only shows the first 100 warnings and errors	build
JDK-8314597	Deprecate for removal protected access methods in converters	base
JDK-8314779	[testbug] Add test to all the XYCharts to check if chart components are removed when series is cleared	controls
JDK-8314906	[testbug] Create behavior tests for text input controls	controls
JDK-8315074	Possible null pointer access in native glass	window-toolkit
JDK-8315317	Add test for JDK-8262518	swing
JDK-8315569	Tests for the contract of SkinBase.layoutChildren(..)	controls
JDK-8315657	Application window not activated in macOS 14 Sonoma	window-toolkit
JDK-8315728	[testbug] SystemMenuBarTest prints "FAILED IS: false"	window-toolkit
JDK-8315870	icu fails to compile with Visual Studio 2022 17.6.5	web
JDK-8315958	Missing range checks in GlassPasteboard	window-toolkit
JDK-8316419	[macos] Setting X/Y makes Stage maximization not work before show	graphics
JDK-8316423	[linux] Secondary Stage does not respect Scene's dimensions when shown	graphics
JDK-8316518	javafx.print.Paper getWidth / getHeight rounds values, causing errors.	graphics
JDK-8316590	Rendering artifact after JDK-8311983	controls
JDK-8316781	Legal, Monarch paper sizes are incorrect in javafx.print.Paper	graphics
JDK-8316892	Skip failing IconifyTestcanIconifyDecoratedStage on Linux	window-toolkit
JDK-8317308	JavaFX Developer build broken on Windows - NativeLibrary file contains invalid character ':'	build

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8317370	JavaFX runtime version is wrong at runtime	base
JDK-8317508	Provide media support for libavcodec version 60	media
JDK-8318059	Typo is javafx.scene.Node.usesMirroring comment	scenegraph
JDK-8318115	Webkit build fails after gradle 8.4	build
JDK-8318204	Use new EventTarget methods in ListenerHelper	controls
JDK-8318386	Update Glib to 2.78.1	media
JDK-8318387	Update GStreamer to 1.22.6	media
JDK-8318388	Update libxslt to 1.1.39	web
JDK-8318630	TextAreaBehaviorRobotTest.testNonMacBindings fails on Linux	controls
JDK-8318841	macOS: Memory leak with MenuItem when Menu.useSystemMenuBar(true) is used	window-toolkit
JDK-8318984	Update to Xcode 14.3.1 on macOS	build
JDK-8319066	Application window not always activated in macOS 14 Sonoma	window-toolkit
JDK-8319079	Missing range checks in decora	graphics
JDK-8319147	Add regression test for JDK-8317836	swing
JDK-8319231	Unrecognized "minimum" key in .jcheck/conf causes /reviewers command to be ignored	other
JDK-8319341	[Linux] Remove operation to show or hide children because it is unnecessary	window-toolkit
JDK-8319669	[macos14] Running any JavaFX app prints Secure coding warning	window-toolkit
JDK-8319762	Update to Visual Studio 2022 version 17.6.5 on Windows	build
JDK-8319996	Update to GCC 13.2.0 on Linux	build
JDK-8320267	WebView crashes on macOS 11 with WebKit 616.1	web

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8320359	ImageView: add styleable fitWidth, fitHeight, preserveRatio, smooth properties	graphics
JDK-8320444	Column drag header is positioned wrong for nested columns	controls
JDK-8320773	[macOS] All IME input blocked	window-toolkit
JDK-8321434	Update Gradle to 8.5	build
JDK-8321435	Update boot JDK to 21.0.1	build
JDK-8321573	Improve Platform.Preferences documentation	graphics
JDK-8321626	[testbug] Mark DualWindowTest and ContextMenuNPETest unstable on Linux	other
JDK-8321636	[testbug] Skip failing 3D lighting tests on macOS 14 / aarch64	graphics
JDK-8321638	Update to SWT 4.30	build
JDK-8321722	Tab header flickering when dragging slowly other tabs and reordering uncompleted	controls
JDK-8321902	Robot-based Behavior tests must be under test.robot hierarchy	controls
JDK-8321970	New table columns don't appear when using fixed cell size unless refreshing tableView	controls
JDK-8322215	[win] OS events that close the stage can cause Glass to reference freed memory	window-toolkit
JDK-8322795	CSS performance regression up to 10x	graphics
JDK-8323077	C type error (incompatible function pointer) in X11GLContext.c	graphics
JDK-8323078	Incorrect length argument to g_utf8_strlen in pango.c	graphics
JDK-8323543	NPE when table items are set to null	controls
JDK-8324658	Allow animation play/start/stop/pause methods to be called on any thread	animation

OpenJDK Patch ID	Synopsis	Subcomponent
JDK-8324879	Platform-specific preferences keys are incorrect for Windows toolkit	graphics
JDK-8325873	Update JDK_DOCS property to point to JDK 21 docs	build

Fixes and Enhancements Specific to Azul Zulu Builds of OpenJDK

The following table describes the Azul Zulu changes implemented in this release.

Zulu Patch ID	Synopsis
ZULU-42868	[CRaC] Failure in com/sun/management/DiagnosticCommandMBean/DcmdMBeanPermissionsTest.java - java.lang.SecurityException: ("java.util.PropertyPermission" "jdk.crac.trace-startup-time" "read")
ZULU-46902	jdk/jdk/crac/SecureRandom/InterlockTest.java fails with timeout
ZULU-47172	[CRaC] jdk/jdk/crac jtreg tests failed on CentOS 8
ZULU-48356	Failure in com/sun/management/DiagnosticCommandMBean/DcmdMBeanPermissionsTest.java - SecurityException: ("java.lang.RuntimePermission" "getClassLoader")
ZULU-49365	Update criu build version
ZULU-50565	Zulu CRaC Alpine Build
ZULU-53738	Fix backport of ZULU-52102 into Zulu 21
ZULU-53750	Checkpoint while debugging
ZULU-54108	Could not find criuengine for zulu with crac for win & mac
ZULU-54790	Propagate CRaC events to JVMTI agents
ZULU-54882	[JCK21] Multiple "api/java_lang/" tests failed with "java.lang.NullPointerException"
ZULU-55352	CRaC tests cannot run in parallel
ZULU-55359	CI for CRaC

Zulu Patch ID	Synopsis
ZULU-55552	Update JFX to 22+20
ZULU-55559	JMX cannot be enabled after restore
ZULU-55812	Change to Xcode 14.3 for building on macOS
ZULU-56027	Zulu21 CRaC build does not work with CRS on Windows
ZULU-56029	review references to slackoverflow
ZULU-56061	CRaC: OSX: --disable-precompiled-headers fails to compile
ZULU-56206	CRaC code has bad words
ZULU-56425	Fix Jtreg tests run for agentpath-related tests
ZULU-56438	CI/CD: fix Jtreg tests run for LD_LIBRARY_PATH-related core tests
ZULU-56440	Fix Gitlab CI in zulu21-crac
ZULU-56451	[CRaC] 2 tests fail on Windows with timeout on build zulu-21.32.13-dev-20231227190516-CRaC
ZULU-56475	Checkpoint call may sometimes hang
ZULU-58789	[CRaC] jdk/crac/CracVersionTest.java test fails because of the compilation error in build 21.34+12
ZULU-59007	Update CRaC from OpenJDK
ZULU-59202	runtime/ClassInitErrors/TestStackOverflowDuringInit.java test fails in build 22.28+90-GA-cpe-jdk-64-sa-crac
ZULU-59204	runtime/Unsafe/InternalErrorTest.java test fails on alpine-aarch64 in build 22.28+90-GA-cpe-jdk-64-sa

Fixes and Enhancements Specific to Azul Zulu Builds of OpenJDK With JavaFX

The following table describes the Azul Zulu changes implemented in this release.

Zulu Patch ID	Synopsis	Subcomponent
ZULU-38524	[FX][WEBKIT] unit test javafx.scene.web.MiscellaneousTest.testFontFace fail on win32	
ZULU-38525	[jfx][webkit] test avafx.scene.web.FileReaderTest hang on win32	web
ZULU-56532	tests for testRT18097 fail with bundled jfx	
ZULU-56899	jfx version for 22 GA	
ZULU-58163	VersionInfoTest fails with bundled jfx	

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