

Liberica JDK 24+37

Release Notes



Liberica JDK
24
March 18, 2025

be//soft

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1. Version information

This document provides information about Liberica JDK 24 release.

The full version string for this update release is 24+37. The version number is 24.

Liberica JDK 24 is distributed as `.apk`, `.rpm`, `.zip`, `.deb`, and `.tar.gz` packages. Please select the most appropriate for your purposes.

2. What's New

This release contains the following updates and new features.

Notable Changes

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

Issue ID	
JDK-4966250	<p>Summary: <code>SSLSessionContext.setTimeout()</code> documentation could be updated</p> <p>Description: The javadoc for <code>SSLSessionContext</code> has been reworded to make it clear that when the timeout limit is exceeded for a session, the object is marked so that future connections cannot resume or rejoin the session. Active sessions can continue to be used so long as resume and rejoin operations are not attempted.</p>
JDK-8173970	<p>Summary: jar tool should have a way to extract to a directory</p> <p>Description: The <code>jar</code> tool's extract operation has been enhanced to allow the <code>--dir</code> or the <code>-C</code> options to be used to specify the directory where the archive will be extracted.</p>

Issue ID

JDK-8245545

Summary: Disable TLS_RSA cipher suites

Description: The TLS_RSA cipher suites have been disabled by default, by adding 'TLS_RSA_*' to the `jdk.tls.disabledAlgorithms` security property in the `java.security` configuration file. The TLS_RSA cipher suites do not preserve forward-secrecy and are not commonly used. Some TLS_RSA cipher suites are already disabled because they use DES, 3DES, RC4, or NULL, which are disabled. This action disables all remaining TLS_RSA cipher suites. Any attempts to use cipher suites starting with 'TLS_RSA_' will fail with an `SSLHandshakeException`. Users can, at their own risk, re-enable these cipher suites by removing 'TLS_RSA_*' from the `jdk.tls.disabledAlgorithms` security property.

JDK-8248981

Summary: Specify list of standard message digest and mgf algorithms for RSASSA-PSS signature

Description: A new section for `PSSParameterSpec` algorithm names has been added to the Java Security Standard Algorithm Names specification. This section lists the standard hash and message generation function (MGF) algorithms that can be specified when initializing an RSASSA-PSS signature with a `PSSParameterSpec` object.

JDK-8286851

Summary: The Java command line options `-verbosegc`, `-noclassgc`, `-verify`, `-verifyremote`, `-ss`, `-ms` and `-mx` are deprecated for removal

Description: The `-verbosegc`, `-noclassgc`, `-verify`, `-verifyremote`, `-ss`, `-ms`, and `-mx` options of the `java` command are deprecated for removal. Usage of any of these options when launching `java` will now log a deprecation warning.

JDK-8288298

Summary: Resolve multiline message parsing ambiguities in UL

Description: Unified Logging now outputs a special empty decorator [] followed by a space after newlines in multiline log messages. This change allows unambiguous parsing of Unified Logging output. Tools that currently deal with multiline parsing ambiguities in Unified Logging require an update. The updates will likely result in simpler and more robust implementations.

Issue ID

JDK-8304929

Summary: `MethodTypeDesc` throws an unchecked exception than `ReflectiveOperationException` when a component class cannot be resolved

Description: In previous releases, `MethodTypeDesc.resolveConstantDesc` threw an unchecked `TypeNotPresentException` instead of a checked `ReflectiveOperationException` when a component class was not found. This behavior is now corrected to throw a `ClassNotFoundException`, conforming to the specification. Code that previously handled `TypeNotPresentException` in addition to `ReflectiveOperationException` can consolidate the exception handling into the existing `ReflectiveOperationException` handling.

JDK-8309841

Summary: `Jarsigner` should print a warning if an entry is removed

Description: If an entry is removed from a signed JAR file, there is no mechanism to detect that it has been removed using the `JarFile` API, since the `getJarEntry` method returns `null` as if the entry had never existed. With this change, the `jarsigner -verify` command analyzes the signature files and if some sections do not have matching file entries, it prints out the following warning: 'This JAR contains signed entries for files that do not exist'. Users can further find out the names of these entries by adding the `-verbose` option to the command.

JDK-8311530

Summary: Deprecate `jdk.jsobject` module for removal

Description: The `jdk.jsobject` module is deprecated, and will be removed in a future release. The `jdk.jsobject` module will instead be delivered with JavaFX 24 and later. To facilitate the transition, `jdk.jsobject` is now an upgradable module in the JDK. This allows applications to use the version of `jdk.jsobject` delivered with JavaFX in place of the one in the JDK to avoid the compiler warning.

Issue ID

JDK-8313367

Summary: SunMSCAPI cannot read Local Computer certs w/o Windows elevation

Description: The Local Computer key store is accessed using the `CERT_STORE_MAXIMUM_ALLOWED_FLAG`. Since this store is typically managed by administrators for security reasons, processes are only given read-only access to specific private keys. By opening the store in read-only mode, non-elevated processes can now securely use these keys without requiring elevated permissions.

JDK-8319332

Summary: Security properties files inclusion

Description: The `java.security` security properties file, and those referred to by the `java.security.properties` system property, now support including other properties files. The directive `include <path-to-a-file>` can be used for this purpose. The effect of including a file is equivalent to defining its properties inline at the inclusion point. Find more information and examples in the Security Properties Files Inclusion section of the Security Developer Guide and in [JDK-8319333](#). As a result of this change, the name `include` can no longer be used to define a property in a security properties file. If the name `include` is passed to the `java.security.Security::getProperty` or `::setProperty` APIs, an `IllegalArgumentException` is thrown.

JDK-8319993

Summary: Update Unicode Data Files to 16.0.0

Description: This release upgrades the Unicode version to 16.0, which includes updated versions of the Unicode Character Database and Unicode Standard Annexes #9, #15, and #29.

JDK-8324209

Summary: Check implementation of Expect: 100-continue in the `java.net.http.HttpClient`

Description: `java.net.http.HttpClient` would previously timeout if a server didn't respond to a request which included a `Expect: 100-Continue` header. This release updates `HttpClient` to send the request body if the server doesn't respond. This brings the implementation in line with RFC 9110.

Issue ID

JDK-8326949 Summary: Authorization header is removed when a proxy Authenticator is set on HttpClient

Description: Prior to JDK 24, if a `java.net.Authenticator` is set on a `HttpClient`, then any user set `Authorization` or `Proxy-Authorization` headers will be removed or overwritten by values generated by the client library. From JDK 24, if such headers are set by the user, then they will be left in place and the authenticator will not be invoked for the respective header. In particular, if the authentication fails for the provided header, the failed response with the 401 or 407 status code will be returned directly to the calling code. One use case for this could be to let the authenticator handle proxy authentication and for the user to set the `Authorization` headers for the server.

JDK-8327793 Summary: Deprecate jstatd for removal

Description: The `jstatd` tool is deprecated, for removal in a future release. `jstatd` is an RMI server application which monitors HotSpot VMs, and provides a remote interface for `jstat`. This will not affect use of `jstat` to read the performance counters from local VMs.

JDK-8328608 Summary: Multiple NewSessionTicket support for TLS

Description: A new system property, `jdk.tls.server.newSessionTicket`, sets the number of TLSv1.3 resumption tickets sent by a JSSE server per session. It can be set on the command line with `-Djdk.tls.server.newSessionTicket=`, where ranges from 0 to 10. The default is 1.

Issue ID

JDK-8329471

Summary: Remove GTK2

Description: The JDK's `java.desktop` module has internal code that interoperates with multiple versions of the GTK platform library. This is primarily to support the Swing GTK LookAndFeel. The JDK previously included support for interoperating with the GTK 2 version of the library, which is reaching the end of its life. GTK 3 long ago superseded it and is supported by the JDK as the preferred default. To use GTK 2, apps must request it using the `jdk.gtk.version` System property. And since many recent Linux distributions make GTK 2 only an optional install, it may require extra work to use it. Future Linux distributions will likely not provide any way to install it. Since all versions of Linux to be supported by JDK 24 provide GTK3, GTK2 support in JDK is now removed. Setting the `jdk.gtk.version` System property to 2 or 2.2 will no longer have any effect. GTK 3 will be loaded.

JDK-8330606

Summary: RedefineClasses verifies the redefined classes

Description: When redefining a class with JVM TI `RedefineClasses`, the new bytecodes are verified with the Class File Verifier regardless of the setting of the deprecated `-Xverify` option.

JDK-8330842

Summary: Support AES CBC with Ciphertext Stealing (CTS) in SunPKCS11

Description: The SunPKCS11 provider has been enhanced to support the following AES CTS transformations for the `Cipher` service type: `AES/CTS/NoPadding`, `AES_128/CTS/NoPadding`, `AES_192/CTS/NoPadding`, `AES_256/CTS/NoPadding`. The Addendum to NIST Special Publication 800-38A defines three variants of Ciphertext Stealing for CBC mode: `CBC-CS1`, `CBC-CS2`, and `CBC-CS3`. To ensure interoperability with SunJCE and Kerberos, which use the `CS3` variant, the SunPKCS11 provider needs to know the variant implemented by the underlying PKCS #11 library and convert the data if it is not in the `CS3` variant. A new SunPKCS11 provider configuration attribute named `cipherTextStealingVariant` is introduced and must be set with any of the following values: `CS1`, `CS2`, or `CS3`, to indicate the CTS variant of the underlying PKCS #11 library. An exception exists for NSS as it is known to be `CS1`. Otherwise, the PKCS #11 `CKM_AES_CTS` mechanism is disabled.

Issue ID

JDK-8333582	<p>Summary: Update CLDR to Version 46.0</p> <p>Description: The locale data based on the Unicode Consortium's CLDR has been upgraded to version 46. Besides the usual addition of new locale data and translation changes, there are notable changes from the upstream CLDR, affecting Date/Time/Number formatting.</p>
JDK-8333755	<p>Summary: NumberFormat integer only parsing breaks when format has suffix</p> <p>Description: <code>DecimalFormat</code>, when the format expects a suffix, now parses correctly when the parse value contains a decimal symbol and <code>isParseIntegerOnly()</code> would return <code>true</code>. Previously, parsing would fail for such cases and the correct value never returned.</p>
JDK-8333772	<p>Summary: Incorrect Kerberos behavior when <code>udp_preference_limit = 0</code></p> <p>Description: <code>udp_preference_limit</code> is a <code>krb5.conf</code> setting to control how a KDC-REQ message is sent. If the size of the message is greater than the value of <code>udp_preference_limit</code>, TCP will be used; otherwise UDP will be used. Before this change, setting it to zero is ignored and the message is sent with UDP. With this change, setting it to zero forces the message to be sent with TCP. This behavior is consistent with other Kerberos 5 vendors.</p>

Issue ID

JDK-8333796

Summary: Add missing serialization functionality to `sun.reflect.ReflectionFactory`

Description: Issue JDK-8164908 added support for functionality required to continue to support IOP and custom serializers in light of additional module-based restrictions on reflection. It was expected at the time that these libraries would use `sun.misc.Unsafe` in order to access fields of serializable classes. However, with JEP 471, the methods necessary to do this are being removed. To resolve the problem, several methods were added to the `sun.reflect.ReflectionFactory` class (which is found in the `jdk.unsupported` module) which allow serialization libraries to acquire method handles to generated `readObject/writeObject` methods which set or get the fields of the serializable class using the serialization `GetField/PutField` mechanism. These generated methods are used by serialization libraries to serialize and deserialize classes which do not have a `readObject/writeObject` method or which use `ObjectInputStream.defaultReadObject/ObjectOutputStream.defaultWriteObject` to supplement default serialization.

JDK-8333867

Summary: SHA3 performance can be improved

Description: The performance of the `MessageDigest` implementations that belong to the SHA3 family (SHA3-224, SHA3-256, SHA3-384, and SHA3-512) has been improved by 6-27%, depending on digested message length and on the platform used. An additional 30-40% can be experienced on AVX-512 capable platforms due to new intrinsic implementations on that platform.

JDK-8334165

Summary: Remove `serialVersionUID` compatibility logic from JMX

Description: Some `javax.management` classes contained a feature for Serialization compatibility with very old JMX releases (1.0, 1.1, 1.2), which are from before JMX was an integrated part of the JDK (in JDK 5). This was enabled using the `jmx.serial.form` system property. This compatibility logic offered no value, and only added complexity, so has been removed. This will not affect any JMX features, or any interactions between JMX features in different JDKs.

Issue ID

JDK-8334299

Summary: Deprecate LockingMode option, along with LM_LEGACY and LM_MONITOR

Description: A new, lightweight locking mechanism for object monitor locking was introduced in JDK 21 under JDK-8291555. The LockingMode flag was introduced to allow selection of this new mechanism, (LM_LIGHTWEIGHT, value 2), in place of the default mechanism, (LM_LEGACY, value 1). In JDK 23, the LockingMode default was changed to LM_LIGHTWEIGHT. In JDK 24, the LockingMode flag, along with the LM_LEGACY (1) and LM_MONITOR (0) modes, are deprecated. The default locking mode, LM_LIGHTWEIGHT, will be the only internal implementation that is supported when these locking modes become obsolete in a future release.

JDK-8334870

Summary: javac does not accept classfiles with certain permitted RuntimeVisibleParameterAnnotations and RuntimeInvisibleParameterAnnotations attributes

Description: The Java Virtual Machine Specification is permissive regarding the number of entries of the RuntimeVisibleParameterAnnotations and RuntimeInvisibleParameterAnnotations attributes in the class file format. The javac tool was less permissive, and was rejecting class files that had a different number of entries than javac expected. With JDK 24, this is fixed, and javac now accepts class files with any number of entries in the RuntimeVisibleParameterAnnotations and RuntimeInvisibleParameterAnnotations attributes. A compile-time warning is produced if the content of the attributes cannot be mapped to the corresponding method's parameters.

JDK-8335638

Summary: Calling VarHandle.{access-mode} methods reflectively throws wrong exception

Description: Reflectively invoking VarHandle signature polymorphic methods is specified to throw UnsupportedOperationException. However, the implementation previously threw UnsatisfiedLinkError in such cases. The behavior was adjusted to conform to the specification.

Issue ID

JDK-8335912 Summary: Add an operation mode to the jar command when extracting to not overwriting existing files

Description: The jar tool's extract operation has been enhanced to allow the `--keep-old-files` and the `-k` options to be used in preventing the overwriting of existing files.

JDK-8336479 Summary: Provide Process.waitFor(Duration)

Description: A new, overloaded method, `java.lang.Process#waitFor(Duration)`, has been added. The existing `waitFor()` method with timeout needs both a primitive time out value and its unit. The new method uses `java.time.Duration` so that the user will not be confused with the unit.

JDK-8336492 Summary: Regression in lambda serialization

Description: Lambda expressions and method references are sometimes translated as methods by the javac compiler. As of this release, the name of the generated methods for non-serializable lambdas and method references has been updated. Such updates might be visible when inspecting the content of a class containing non-serializable lambdas and method references using core reflection. Moreover, the `EnclosingMethod` attribute for local and anonymous classes declared inside lambda expressions has been fixed to be compliant with JVM 4.7.7.

JDK-8337199 Summary: Add jcmd Thread.vthread_scheduler and Thread.vthread_pollers diagnostic commands

Description: Two commands have been added to the jcmd command line tool to print information that may be useful when diagnosing issues with virtual threads. `jcmd <pid> Thread.vthread_scheduler` prints the virtual thread scheduler, the target parallelism, number of threads, and other useful counters. The output also includes the delayed task schedulers that support virtual threads doing timed operations. `jcmd <pid> Thread.vthread_pollers` prints the I/O pollers that support virtual threads doing blocking network I/O operations.

Issue ID

JDK-8337302

Summary: Undefined type variable results in null

Description: Core reflection now throws a `TypeNotPresentException` instead of substituting a `null` value when encountering an undefined type variable in a generic signature. The previous incorrect behavior had been in place since the addition of generic signatures in JDK 5. The `TypeNotPresentException::typeName` method may return type variable names in addition to fully qualified names of classes.

JDK-8337506

Summary: Disable best-fit mapping on Windows command line

Description: Command line arguments to the Java launcher are no longer converted with Windows' best-fit mapping when the arguments include unmappable characters for the ANSI code page. This mapping has been intervening in the Java launcher's argument parsing. Unmappable characters are now replaced with the default replacement character, such as '?' in some cases. For rare cases, where applications need those unmappable characters on the command line, select UTF-8 in Windows Regional Settings.

JDK-8337664

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

Description: The JDK will stop trusting TLS server certificates issued after November 11, 2024 and anchored by Entrust root certificates, in line with similar plans recently announced by Google and Mozilla. The list of affected certificates includes certificates branded as AffirmTrust, which are managed by Entrust. TLS server certificates issued on or before November 11, 2024 will continue to be trusted until they expire. Certificates issued after that date, and anchored by any of the Certificate Authorities in the table below, will be rejected.

JDK-8338536

Summary: Permanently disable remote code downloading in JNDI

Description: JNDI remote code downloading for LDAP and RMI providers is now permanently disabled. The `com.sun.jndi.rmi.object.trustURLCodebase` and `com.sun.jndi.ldap.object.trustURLCodebase` system properties are removed.

Issue ID

JDK-8338890

Summary: Add monitoring/management interface for the virtual thread scheduler

Description: A new, JDK-specific monitoring and management interface, `jdk.management.VirtualThreadSchedulerMXBean`, has been added to allow Java Management Extension (JMX) based tooling to monitor and manage the virtual thread scheduler. The interface supports monitoring the virtual thread scheduler's target parallelism, the threads used by the scheduler, and the number of virtual threads queued to the scheduler. It also supports dynamically changing the scheduler's target parallelism.

JDK-8338894

Summary: Deprecate `jhsdb debug` for removal

Description: The `debug` subcommand of the `jhsdb` tool is deprecated, for removal in a future release. `jhsdb debug` is an RMI server which provides a remote interface for other `jhsdb` commands. Those commands use the `--connect` option which is also deprecated for removal. This will not affect usage of `jhsdb` for debugging local VMs or core files.

JDK-8339637

Summary: Update Timezone Data to 2024b

Description: IANA Time Zone Database has been upgraded to 2024b.

JDK-8339918

Summary: Remove checks for outdated `-t -tm -Xfuture -checksource -cs -noasyncgc` options from the launcher

Description: The `java` command no longer accepts the `-t`, `-tm`, `-Xfuture`, `-checksource`, `-cs`, and `-noasyncgc` options. These options are henceforth treated as unrecognized and usage of any of these options will lead to an error resulting in a failure to launch `java`. Applications that were launching `java` with the `-Xfuture` option may consider using `-Xverify:all` in its place - the rest of the options have no replacements.

Issue ID

JDK-8340359

Summary: Remove `javax.naming.Context.APPLET`

Description: The `javax.naming.Context.APPLET` constant, which has been deprecated since Java 9, has been removed from the `javax.naming.Context` class. Applications relying on this constant will require modification.

JDK-8340477

Summary: Remove JDK1.1 compatible behavior for EST, MST, and HST time zones

Description: The JDK 1.1-compatible behavior for the EST, MST, and HST time zones has been removed. Previously, this behavior could be enabled using the `sun.timezone.ids.oldmapping` system property, but this property is no longer operational in this release. In general, the use of all legacy Three-letter time zone IDs is deprecated. Instead, use the corresponding region-based time zone IDs.

JDK-8341134

Summary: Deprecate for removal the `jruncrpt` tool

Description: `jruncrpt` tool has been deprecated and will be removed in a future release. Usage of this tool will now print a deprecation warning.

JDK-8341551

Summary: `sun.misc.URLClassPath.disableJarChecking` System Property to Verify JAR File Header in `URLClassLoader`'s `ClassPath`

Description: The system property `sun.misc.URLClassPath.disableJarChecking` controls whether the first 4 bytes of JAR files on the class path are checked to be the magic number for ZIP files (PK). The check is not performed by default. If the system property is set on the command line to the value `false`, then JAR files on the class path are checked. JAR files used by `java.net.URLClassLoader` at run time are also checked. JAR files that fail the check are ignored.

Issue ID

JDK-8341553

Summary: Remove UseCompactObjectHeaders extra CDS archives

Description: The CDS archives for the Compact Object Headers feature are not included in the JDK released by Oracle. In order to take advantage of the start-up performance offered by CDS, the user can build the CDS archives with Compact Object Headers as follows: `java -Xshare:dump -XX:+UnlockExperimentalVMOptions -XX:+UseCompactObjectHeaders`. The command generates the `classes_coh.jsa` which is located in the same directory as the default CDS archive (`classes.jsa`). For example, on Linux, it is located in the `<jdk>/lib/server` directory.

JDK-8341566

Summary: Add Reader.of(CharSequence)

Description: The static factory method `java.io.Reader.of(CharSequence)` has been added to get a `Reader` that reads characters from a `CharSequence`, `String` and `StringBuilder` are examples of a `CharSequence`. The returned `Reader` is more efficient than using a `java.io.StringReader` in some cases, as the latter requires conversion to `String` and synchronization.

JDK-8341907

Summary: javac -Xlint should ignore /// on first line of source file

Description: `DocLint` in `javac` and `javadoc` no longer warns about a `///` single-line, dangling comment that starts a file. This is to accommodate systems that support a stylized comment on the first line of a source file as a way to 'auto-execute' the file.

JDK-8341964

Summary: Add mechanism to disable different parts of TLS cipher suite

Description: TLS cipher suites can be disabled with the `jdk.tls.disabledAlgorithms` security property in the `java.security` configuration file using one or more asterisk (*) **wildcard characters**. For **example**, `'TLS_RSA_'` disables all cipher suites that start with `'TLS_RSA_'`. Only cipher suites starting with `'TLS_'` are allowed to have wildcard characters.

Issue ID

JDK-8342075

Summary: HttpClient: improve HTTP/2 flow control checks

Description: The `java.net.http.HttpClient` will now report HTTP/2 flow control errors to the server when they are detected. This is an implementation detail that should be transparent to users of the `HttpClient` API, but could result in streams being reset or connections being closed if connecting to a non-conformant HTTP/2 server.

JDK-8342465

Summary: Improve API documentation for `java.lang.classfile`

Description: The `java.lang.classfile` package was shipped with bare documentation besides its package summary. Additional documentation now helps users to better understand the features of each model, the transformation mechanism, `CodeBuilder`, `ClassFile` constants, and `ClassFile.Options`.

JDK-8343001

Summary: Adjust XSLT and XPath Extension Function Property

Description: The default value of the property for XSLT and XPath Extension Functions, `jdk.xml.enableExtensionFunctions`, has been changed from true to false, which disables Extension Functions.

JDK-8343004

Summary: Adjust JAXP limits

Description: The JDK's XML [Processing Limits \(known as JAXP Limits\)](#) are adjusted to be more in line with general applications. In particular, the default values of the limits are tuned down to more closely align with known DTDs.

JDK-8343510

Summary: JFR: Remove `AccessControlContext` from `FlightRecorder::addListener` specification

Description: With 'JEP 486: Permanently Disable the Security Manager' the `AccessControlContext` is no longer captured when adding a `FlightRecorderListener`. The specification was updated to not mention the `AccessControlContext`.

Issue ID

JDK-8343791

Summary: `Socket.connect` Closes the Socket If the Connection Cannot Be Established

Description: The `connect` methods defined by `java.net.Socket` are now specified, and changed, to close the `Socket` if the connection cannot be established, or the timeout (if provided) expires before the connection is established. The behavior in previous JDK releases was to close the underlying socket when a connection could not be established but leave the `Socket` open. The resulting `Socket` was 'useless' as most methods behaved as if the `Socket` was closed. The behavior of the `connect` methods when invoked with an unresolved `InetSocketAddress` was unspecified in previous releases. The behavior in JDK 11 and older releases was to close the underlying socket, throw `UnknownHostException`, but leave the `Socket` open in a 'useless' state. The behavior in JDK 12 to JDK 23 was to throw `UnknownHostException` without closing the `Socket` or underlying socket. This case is now specified, and changed, to close the `Socket`, the underlying socket, and throw `UnknownHostException` if the connection cannot be established because the address is unresolved. As part of this change, calling the `connect` method on a `Socket` obtained from a `SocketChannel` will now throw `IOException` if already connected. This is the specified exception for this scenario. The incorrect behavior in previous releases was to throw `AlreadyConnectedException` for this case.

JDK-8344041

Summary: Re-enable external specs page

Description: The API documentation contains a new summary page listing external specifications referenced by Java SE and JDK APIs. A link to the new summary page can be found in the Index page linked in the API documentation navigation bar.

JDK-8344299

Summary: The JNDI `java.naming.rmi.security.manager` environment property is removed

Description: The JNDI environment property `java.naming.rmi.security.manager` is no longer supported. This property, used to request installation of the `RMISecurityManager`, is no longer effective. As the `SecurityManager` is removed, this property is no longer needed.

Issue ID

JDK-8344882	<p>Summary: Memory used by internal temporary direct buffers is no longer limited</p> <p>Description: The Java Virtual Machine (JVM) option <code>MaxDirectMemorySize</code> controls the maximum total size of memory that may be used for direct buffers in an instance of the JVM. Its default value is the maximum size of the heap. Prior to JDK 24, the amount of memory allocated for internal, temporary direct buffers such as used, for example, when reading from or writing to a <code>java.nio.channels.FileChannel</code>, was included in this total. As of JDK 24, internal use of temporary direct buffers is no longer included in the total.</p>
JDK-8345259	<p>Summary: Disallow ALL-MODULE-PATH without explicit <code>--module-path</code></p> <p>Description: Starting with JDK 24, the <code>jlink --add-modules ALL-MODULE-PATH</code> option will require users to set the module path via the <code>--module-path</code> option. Prior to JDK 24, using <code>--add-modules ALL-MODULE-PATH</code> without <code>--module-path</code> could be used to create an image with all JDK modules from <code>\$JAVA_HOME/jmods</code>. In JDK 24, to create an image using <code>ALL-MODULE-PATH</code>, it is required to explicitly set <code>--module-path</code>. To create an image with all JDK modules, use <code>jlink --add-modules ALL-MODULE-PATH --add-modules \$JAVA_HOME/jmods</code> instead.</p>
JDK-8345502	<p>Summary: Remove <code>doIntersectionPrivilege</code> methods</p> <p>Description: The internal <code>ProtectionDomain.doIntersectionPrivilege</code> methods are removed as all dependencies have been removed in post JEP 486 cleanup issues.</p>
JDK-8345773	<p>Summary: Class-File API debug printing capability</p> <p>Description: The Class-File API has lost its debug printing capability with removal of the <code>components</code> package and, more specifically of the <code>ClassPrinter</code> class as part of JDK-8345343. To restore the debug printing capability in the Class-File API, a method <code>CompoundElement::toDebugString</code> was added to retrieve a textual representation of the element.</p>

Issue ID

JDK-8345794	<p>Summary: Backout doc change introduced by JDK-8235786</p> <p>Description: 8235786 introduced a small apidoc change which has already been integrated in 24. The API change approved in JDK 24 was reverted to the state prior to 24. So, the net effect is no API change in this release (to this API).</p>
JDK-8347596	<p>Summary: Update HSS/LMS public key encoding</p> <p>Description: The X.509 encoded format for HSS/LMS public keys has been updated to align with the latest standard outlined in RFC 9708. Notably, the additional OCTET STRING wrapping around the public key value has been removed. For compatibility, public key encodings generated by earlier JDK releases are still recognized.</p>

Discontinued OS support

Note that Liberica JDK 24 is not available for and cannot be run on the following operating systems:

- Windows x86 (32-bit)
- macOS 10.x

IANA TZ Data update

This release of Liberica JDK 24 upgrades the in-tree copy of the IANA timezone database to [2024b](#). This timezone update is primarily concerned with improving historical data for Mexico, Mongolia and Portugal. It also makes Asia/Choibalsan an alias for Asia/Ulaanbaatar and makes the MET timezone the same as CET.

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

- EST → America/Panama instead of -5:00
- MST → America/Phoenix instead of -7:00

- HST → Pacific/Honolulu instead of -10:00

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

3. Known Issues

This release does not contain any known issues.

4. Fixed CVEs

This release does not contain any fixed Common Vulnerabilities and Exposures.

5. Resolved Issues

JDK issues

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

Issue ID	Summary
JDK-4265389	JSplitPane does not support ComponentOrientation
JDK-4966250	SSLSessionContext.setSessionTimeout() documentation could be updated
JDK-5021949	JSplitPane.setEnabled(false) shouldn't be partially functional
JDK-6318027	BasicScrollBarUI does not disable timer when enclosing frame is disabled.
JDK-6381729	Javadoc for generic constructor doesn't document type parameter
JDK-6426678	(spec) File.createTempFile(prefix, suffix, dir) needs clarification for illegal symbols in suffix
JDK-6672644	JComboBox still scrolling if switch to another window and return back
JDK-6967482	TAB-key does not work in JTables after selecting details-view in JFileChooser
JDK-7038838	Unspecified NPE in java.net.IDN methods
JDK-8003887	File.getCanonicalFile() does not resolve symlinks on MS Windows
JDK-8026127	Deflater/Inflater documentation incomplete/misleading
JDK-8028127	Regtest java/security/Security/SynchronizedAccess.java is incorrect

Issue ID	Summary
JDK-8034066	Incorrect alignment in the "Code" section for "-c -XDdetails" options
JDK-8035271	Incorrect indentation of LineNumberTable/LocalVariableTable/Exception table/LocalVariableTypeTable/StackMapTable/RuntimeVisibleTypeAnnotations in verbose mode
JDK-8051591	Test javax/swing/JTabbedPane/8007563/Test8007563.java fails
JDK-8072701	resume001 failed due to ERROR: timeout for waiting for a BreakpointEvent
JDK-8155030	The Menu Mnemonics are always displayed for GTK LAF
JDK-8166352	FilePane.createDetailsView() removes JTable TAB, SHIFT-TAB functionality
JDK-8173970	jar tool should have a way to extract to a directory
JDK-8178966	Don't swallow early bootstrap exceptions in Boolean.getBoolean, Integer.getInteger and Long.getLong
JDK-8185429	[macos] After a modal dialog is closed, no window becomes active
JDK-8190329	[macos] Swing InterOp Platform.exit() crash
JDK-8202100	Merge vm/share/InMemoryJavaCompiler w/ jdk/test/lib/compiler/InMemoryJavaCompiler
JDK-8202617	javadoc generates broken links to undocumented (e.g. private) members
JDK-8204582	Extra spaces in jlink documentation make it incorrect.
JDK-8205957	setfldw001/TestDescription.java fails with bad field value
JDK-8207908	JMXStatusTest.java fails assertion intermittently

Issue ID	Summary
JDK-8209092	Remove outdated wording from RC5ParameterSpec
JDK-8210637	Race in JymtiCurrentBreakpoints::get_jymti_breakpoints
JDK-8211033	Clean up the processing -classpath argument not to set LM_CLASS
JDK-8211400	nsk.share.gc.Memory::getArrayLength returns wrong value
JDK-8211847	[aix] java/lang/ProcessHandle/InfoTest.java fails: "reported cputime less than expected"
JDK-8211854	[aix] java/net/ServerSocket/AcceptInheritHandle.java fails: read times out
JDK-8216471	GTK LnF: Frame is clipped and does not show JTable, Tooltip and JTree demo in SwingSet2 demo
JDK-8220213	com/sun/jndi/dns/ConfigTests/Timeout.java failed intermittent
JDK-8222884	ConcurrentClassDescLookup.java times out intermittently
JDK-8225049	Bad -Xlog example in -Xlog:help, online documentation, JEP
JDK-8225209	jdk/jfr/event/compiler/TestCodeSweeper.java fails
JDK-8226933	[TEST_BUG]GTK L&F: There is no swatches or RGB tab in JColorChooser
JDK-8226938	[TEST_BUG]GTK L&F: There is no Details button in FileChooser Dialog
JDK-8233068	HIDPI: Linux: AWT Checkbox check mark is unscaled
JDK-8233451	(fs) Files.newInputStream() cannot be used with character special files
JDK-8234071	JTable.AUTO_RESIZE_LAST_COLUMN acts like AUTO_RESIZE_ALL_COLUMNS

Issue ID	Summary
JDK-8235404	[macos] JOptionPane blocks drawing string on another component
JDK-8235786	Javadoc for com/sun/net/httpserver/HttpExchange.java#setAttribute is unclear
JDK-8245545	Disable TLS_RSA cipher suites
JDK-8248609	[Graal] vmTestbase/nsk/jdi/VoidValue/toString/tostring001/TestDescription.java failed with Unexpected com.sun.jdi.ObjectCollectedException
JDK-8248981	Specify list of standard message digest and mgf algorithms for RSASSA-PSS signature
JDK-8250659	Clarify in ParameterizedType.getRawType() doc that only Class is returned
JDK-8251926	PPC: Remove an unused variable in assembler_ppc.cpp
JDK-8253440	serviceability/sa/TestJhsdbJstackLineNumbers.java failed with "Didn't find enough line numbers"
JDK-8256211	assert fired in java/net/httpclient/DependentPromiseActionsTest (infrequent)
JDK-8258483	[TESTBUG] gtest CollectorPolicy.young_scaled_initial_ergo_vm fails if heap is too small
JDK-8261242	[Linux] OSContainer::is_containerized() returns true when run outside a container
JDK-8267887	RMIConnector_NPETest.java fails after removal of RMI Activation (JDK-8267123)
JDK-8268379	java/util/Locale/LocaleProvidersRun.java and sun/util/locale/provider/CalendarDataRegression.java timed out

Issue ID	Summary
JDK-8268895	Do not filter out man pages from build
JDK-8269657	Test java/nio/channels/DatagramChannel/Loopback.java failed: Unexpected message
JDK-8269870	PS: Membar in PSPromotionManager::copy_unmarked_to_survivor_space could be relaxed
JDK-8272339	Update notes section from serialver man page
JDK-8272780	ServerNotifForwarder.removeNotificationListener() incorrect exception handling
JDK-8277240	java/awt/Graphics2D/ScaledTransform/ScaledTransform.java dialog does not get disposed
JDK-8277949	(dc) java/nio/channels/DatagramChannel/AdaptorBasic.java failed in timeout
JDK-8279016	JFR Leak Profiler is broken with Shenandoah
JDK-8281533	Odd "preview" label in link/linkplain
JDK-8282944	GHA: Add Alpine Linux x86_64 pre-integration check
JDK-8283664	Remove jtreg tag manual=yesno for java/awt/print/PrinterJob/PrintTextTest.java
JDK-8283779	Clarify API documentation of NetworkInterface with respect to configuration changes
JDK-8286851	Deprecate for removal several of the undocumented java launcher options
JDK-8286875	ProgrammableUpcallHandler::on_entry/on_exit access thread fields from native

Issue ID	Summary
JDK-8288298	Resolve multiline message parsing ambiguities in UL
JDK-8288590	javac failure: incompatible types: cannot infer type arguments due to Object.hashCode collision
JDK-8289771	jpackage: ResourceEditor error when path is overly long on Windows
JDK-8290501	Typo in javax.swing.BoundedRangeModel documentation
JDK-8291472	[macos] jawt 1.4 lock/unlock not supported
JDK-8293040	Argfile documentation for java launcher tool is confusing regarding usage of wildcards
JDK-8293650	Shenandoah: Support archived heap objects
JDK-8293980	Resolve CONSTANT_FieldRef at CDS dump time
JDK-8294432	Add provisions to calculate hash values from MemorySegments
JDK-8294960	Convert java.base/java.lang.invoke package to use the Classfile API to generate lambdas and method handles
JDK-8295269	G1: Improve slow startup due to predictor initialization
JDK-8297692	Avoid sending per-region GCPhaseParallel JFR events in G1ScanCollectionSetRegionClosure
JDK-8298387	Implement JEP 497: Quantum-Resistant Module-Lattice-Based Digital Signature Algorithm
JDK-8298390	Implement JEP 496: Quantum-Resistant Module-Lattice-Based Key Encapsulation Mechanism

Issue ID	Summary
JDK-8298614	Support CDS heap dumping for SerialGC and ParallelGC
JDK-8298920	Improve microbenchmark build times
JDK-8299080	Wrong default value of snippet lang attribute
JDK-8299419	Thread.sleep(millis) may throw OOME
JDK-8299487	Test java/net/httpclient/whitebox/SSLTubeTestDriver.java timed out
JDK-8299813	java/nio/channels/DatagramChannel/Disconnect.java fails with jtreg test timeout due to lost datagram
JDK-8300732	Whitebox functions for Metaspace test should use byte size
JDK-8300800	UB: Shift exponent 32 is too large for 32-bit type 'int'
JDK-8301403	Eliminate memory allocations in JVMFlag::printFlags during signal handling
JDK-8302111	Serialization considerations
JDK-8304484	CDS dynamic dumping incorrectly leads to "Error occurred during initialization of VM"
JDK-8304693	Remove -XX:-UseVtableBasedCHA
JDK-8304732	jdk/jfr/api/consumer/recordingstream/TestStop.java failed again with "Expected outer stream to have 3 events"
JDK-8304824	NMT should not use ThreadCritical
JDK-8304929	MethodTypeDesc throws an unchecked exception than ReflectiveOperationException when a component class cannot be resolved

Issue ID	Summary
JDK-8305406	Add @spec tags in java.base/java.* (part 2)
JDK-8305489	runtime/ErrorHandling/TestDwarf.java fails in some Linux configurations after JDK-8303805
JDK-8305895	Implement JEP 450: Compact Object Headers (Experimental)
JDK-8306580	Propagate CDS dumping errors instead of directly exiting the VM
JDK-8306679	com/sun/jdi/InterruptHangTest.java asserts with -Xcomp -Dmain.wrapper=Virtual options
JDK-8307318	Test serviceability/sa/ClhsdbCDSJstackPrintAll.java failed: ArrayIndexOutOfBoundsException
JDK-8307383	Enhance DTLS connections
JDK-8307532	Implement LM_LIGHTWEIGHT for Zero
JDK-8308588	Unnecessary synchronized on GTKStyle#ICONS_MAP can be removed
JDK-8309634	Resolve CONSTANT_MethodRef at CDS dump time
JDK-8309821	Link to hidden classes section in Class specification for Class::isHidden
JDK-8309841	Jarsigner should print a warning if an entry is removed
JDK-8310340	assert(!_thread→is_interp_only_mode() stub_caller) failed: expected a stub-caller
JDK-8310525	DynamicLauncher for JDP test needs to try harder to find a free port
JDK-8310675	Fix -Wconversion warnings in ZGC code

Issue ID	Summary
JDK-8310915	Typo in aarch64.ad: "envcodings"
JDK-8311110	multichar warning in WinAccessBridge.cpp
JDK-8311163	Parallel: Improve large object handling during evacuation
JDK-8311208	Improve CDS Support
JDK-8311302	Implement JEP 493: Linking Run-Time Images without JMODs
JDK-8311530	Deprecate jdk.jsobject module for removal
JDK-8311990	Two JDI tests may interfere with each other
JDK-8311993	Test serviceability/sa/UniqueVtableTest.java failed: duplicate vtables detected
JDK-8312125	Refactor CDS enum class handling
JDK-8312412	Uninitialized klassVtable::_verify_count field
JDK-8312425	[vectorapi] AArch64: Optimize vector math operations with SLEEF
JDK-8313367	SunMSCAPI cannot read Local Computer certs w/o Windows elevation
JDK-8313562	hsperfdata should export module path and "launcher" metadata
JDK-8313909	[JVMCI] assert(cp→tag_at(index).is_unresolved_class()) in lookupKlassInPool
JDK-8313931	Javadoc: links to type parameters actually generate links to classes
JDK-8314124	RISC-V: implement Base64 intrinsic - decoding
JDK-8314125	RISC-V: implement Base64 intrinsic - encoding

Issue ID	Summary
JDK-8314498	[macos] Transferring File objects to Finder fails
JDK-8314512	IGV: clean up hierarchical layout code
JDK-8314653	Metaspace: remove allocation guard feature
JDK-8314794	Improve UTF8 String supports
JDK-8314842	zgc/genzgc tests ignore vm flags
JDK-8315273	(fs) Path.toRealPath(LinkOption.NOFOLLOW_LINKS) fails when "../.." follows a link (win)
JDK-8315655	[macos] Right click and dragging over a component with a popup menu will open the popup
JDK-8315884	New Object to ObjectMonitor mapping
JDK-8316151	[macos14] ActionListenerCalledTwiceTest.java fails on macOS 14
JDK-8317116	Provide layouts for multiple test UI in PassFailJFrame
JDK-8317356	Fix missing null checks in the ClassFile API
JDK-8317538	Potential bottleneck in Provider::getService: specjvm2008::crypto.rsa have scalability issue for high vCPU numbers
JDK-8317542	Specjvm::xml have scalability issue for high vCPU numbers
JDK-8317611	Add a tool like jdeprscan to find usage of restricted methods
JDK-8317720	RISC-V: Implement Adler32 intrinsic
JDK-8317721	RISC-V: Implement CRC32 intrinsic

Issue ID	Summary
JDK-8318106	Generated HTML for snippet does not always contain an id
JDK-8318127	align_up has potential overflow
JDK-8318416	Superscript marks should use consistent font style
JDK-8318442	java/net/httpclient/ManyRequests2.java fails intermittently on Linux
JDK-8318668	java/lang/management/MemoryMXBean/CollectionUsageThreshold.java fails with Xcomp
JDK-8319332	Security properties files inclusion
JDK-8319343	Improve CDS module graph support for --add-modules option
JDK-8319457	Update jpackage to support WiX v4 and v5 on Windows
JDK-8319859	Better symbol storage
JDK-8319873	Add windows implementation for jcmd System.map and System.dump_map
JDK-8319933	Disable tests for JDK-8280481 on Graal
JDK-8319947	Recursive lightweight locking: s390x implementation
JDK-8319992	Update ICU4J to Version 76.1
JDK-8319993	Update Unicode Data Files to 16.0.0
JDK-8320097	Improve Image transformations
JDK-8320308	C2 compilation crashes in LibraryCallKit::inline_unsafe_access

Issue ID	Summary
JDK-8320318	ObjectMonitor Responsible thread
JDK-8320448	Accelerate IndexOf using AVX2
JDK-8320500	[vectorapi] RISC-V: Optimize vector math operations with SLEEP
JDK-8320548	Improved loop handling
JDK-8320561	Inconsistency in monitorinflation logging
JDK-8320725	AArch64: C2: Add "requires_strict_order" flag for floating-point add and mul reduction
JDK-8320743	AEAD ciphers throw undocumented exceptions on overflow
JDK-8321010	RISC-V: C2 RoundVF
JDK-8321011	RISC-V: C2 RoundVD
JDK-8321033	Avoid casting Array to GrowableArray
JDK-8321140	Add comment to note difference in Metal's JButton margins
JDK-8321274	Rename ZipEntry.extraAttributes to ZipEntry.externalFileAttributes
JDK-8321308	AArch64: Fix matching predication for cbz/cbnz
JDK-8321500	javadoc rejects '@' in multi-line attribute value
JDK-8321509	False positive in get_trampoline fast path causes crash
JDK-8321818	vmTestbase/nsk/stress/strace/strace015.java failed with 'Cannot read the array length because "<local4>" is null'

Issue ID	Summary
JDK-8321935	Define the term 'standard doclet'
JDK-8321997	Increase upper limit of LoopOptsCount flag
JDK-8322036	Improve help output from the javadoc tool
JDK-8322064	Remove expired flags in JDK 24
JDK-8322133	getParameterSpec(ECGenParameterSpec.class) on EC AlgorithmParameters does not return standard names
JDK-8322420	[Linux] cgroup v2: Limits in parent nested control groups are not detected
JDK-8322475	Extend printing for System.map
JDK-8322708	Global HTML attributes are not allowed
JDK-8322770	Implement C2 VectorizedHashCode on AArch64
JDK-8322811	jcmm System.dump_map help info has conflicting statements
JDK-8322812	Manpage for jcmm is missing JFR.view command
JDK-8322859	Parallel: Move transform_stack_chunk
JDK-8322882	Null pointer error when compiling Static initializer in a local class
JDK-8323196	jdk/jfr/api/consumer/filestream/TestOrdered.java failed with "Events are not ordered! Reuse = false"
JDK-8323231	Improve array management
JDK-8323242	Remove vestigial DONT_USE_REGISTER_DEFINES

Issue ID	Summary
JDK-8323390	Enhance mask blit functionality
JDK-8323672	Suppress unwanted autoconf added flags in CC and CXX
JDK-8323688	C2: Fix UB of jlong overflow in PhaseIdealLoop::is_counted_loop()
JDK-8323803	ConstantOopReadValue::print_on should print 'null' instead of 'nullptr'
JDK-8324048	(fc) Make FileKey fields final
JDK-8324089	Fix typo in the manual page for "jcmd" (man jcmd)
JDK-8324209	Check implementation of Expect: 100-continue in the java.net.http.HttpClient
JDK-8324259	Classes used by CDS at runtime should be archived
JDK-8324260	java/foreign/TestStubAllocFailure.java run timeout with -Xcomp
JDK-8324345	Stack overflow during C2 compilation when splitting memory phi
JDK-8324491	Keyboard layout didn't keep its state if it was changed when dialog was active
JDK-8324559	Improve 2D image handling
JDK-8324672	Update jdk/java/time/tck/java/time/TCKInstant.java now() to be more robust
JDK-8324781	runtime/Thread/TestAlwaysPreTouchStacks.java failed with Expected a higher ratio between stack committed and reserved
JDK-8324841	PKCS11 tests still skip execution
JDK-8324859	Improve error recovery

Issue ID	Summary
JDK-8324966	Allow selecting jtreg test case by ID from make
JDK-8325002	Exceptions::fthrow needs to ensure it truncates to a valid utf8 string
JDK-8325089	jpackage utility creates an "infinite", undeleteable directory tree
JDK-8325090	javadoc fails when -subpackages option is used with non-modular -source
JDK-8325155	C2 SuperWord: remove alignment boundaries
JDK-8325218	gc/parallel/TestAlwaysPreTouchBehavior.java fails
JDK-8325369	@sealedGraph: Bad link to image for tag on nested classes
JDK-8325397	sun/java2d/Disposer/TestDisposerRace.java fails in linux-aarch64
JDK-8325495	C2: implement optimization for series of Add of unique value
JDK-8325525	Create jtreg test case for JDK-8325203
JDK-8325600	Better symbol storage
JDK-8325679	Optimize ArrayList subList sort
JDK-8325821	[REDO] use "dmb.ishst+dmb.ishld" for release barrier
JDK-8325937	runtime/handshake/HandshakeDirectTest.java causes "monitor end should be strictly below the frame pointer" assertion failure on AArch64
JDK-8325945	Error reporting should limit the number of String characters printed
JDK-8325949	Create an internal utility method for creating VarHandle instances

Issue ID	Summary
JDK-8325984	4 jcstress tests are failing in Tier6 4 times each
JDK-8326085	Remove unnecessary UpcallContext constructor
JDK-8326369	Add test to verify bimorphic inlining happens after morphism changes
JDK-8326615	C1/C2 don't handle allocation failure properly during initialization (RuntimeStub::new_runtime_stub fatal crash)
JDK-8326616	tools/javac/patterns/Exhaustiveness.java intermittently Timeout signalled after 480 seconds
JDK-8326705	Test CertMsgCheck.java fails to find alert certificate_required
JDK-8326715	ZGC: RunThese24H fails with ExitCode 139 during shutdown
JDK-8326820	Metadata artificially kept alive
JDK-8326865	Avoid copying in StringTable::intern(Symbol*, TRAPS)
JDK-8326949	Authorization header is removed when a proxy Authenticator is set on HttpClient
JDK-8327054	DiagnosticCommand Compiler.perfmap does not log on output()
JDK-8327114	Attach in Linux may have wrong behaviour when pid == ns_pid (Kubernetes debug container)
JDK-8327156	Avoid copying in StringTable::intern(oop, TRAPS)
JDK-8327370	(ch) sun.nio.ch.Poller.register throws AssertionError
JDK-8327380	Add tests for Shenandoah barrier expansion optimization

Issue ID	Summary
JDK-8327381	Refactor type-improving transformations in BoolNode::Ideal to BoolNode::Value
JDK-8327413	Enhance compilation efficiency
JDK-8327538	The SSLExtension class specifies incorrect values for heartbeat per RFC 6520 and post_handshake_auth per RFC 8446
JDK-8327624	Remove VM implementation that bypass verification for core reflection
JDK-8327652	S390x: Implements SLP support
JDK-8327793	Deprecate jstatd for removal
JDK-8327825	StringTable::intern is slow
JDK-8327854	Test java/util/stream/test/org/openjdk/tests/java/util/stream/WhileOpStatefulTest.java failed with RuntimeException
JDK-8328085	C2: Use after free in PhaseChaitin::Register_Allocate()
JDK-8328107	Shenandoah/C2: TestVerifyLoopOptimizations test failure
JDK-8328286	Enhance HTTP client
JDK-8328313	Archived module graph should allow identical --module-path to be specified during dump time and run time
JDK-8328528	C2 should optimize long-typed parallel iv in an int counted loop
JDK-8328536	javac - crash on unknown type referenced in yield statement
JDK-8328544	Improve handling of vectorization

Issue ID	Summary
JDK-8328553	Get rid of JApplet in test/jdk/sanity/client/lib/SwingSet2/src/DemoModule.java
JDK-8328608	Multiple NewSessionTicket support for TLS
JDK-8328723	IP Address error when client enables HTTPS endpoint check on server socket
JDK-8328726	Better Kerberos support
JDK-8328877	[JNI] The JNI Specification needs to address the limitations of integer UTF-8 String lengths
JDK-8328880	Events::log_exception should limit the size of the logging message
JDK-8328944	NMT reports "unknown" memory
JDK-8329031	CPUID feature detection for Advanced Performance Extensions (Intel® APX)
JDK-8329032	C2 compiler register allocation support for APX EGPRs
JDK-8329035	New Data Destination instructions support
JDK-8329141	Obsolete RTM flags and code
JDK-8329288	Update Visual Studio visibility support for POSIX functions
JDK-8329351	Add runtime/Monitor/TestRecursiveLocking.java for recursive Java monitor stress testing
JDK-8329398	Links in InetAddress class description show "#format"
JDK-8329471	Remove GTK2
JDK-8329597	C2: Intrinsicify Reference.clear

Issue ID	Summary
JDK-8329754	The ThreadSafe attribute is ignored for SecureRandom algorithm aliases
JDK-8329756	[macos] "javax/swing/JTable/KeyBoardNavigation.java" fail because most combinations of navigational keys with the Ctrl key do not work
JDK-8329816	Add SLEEF version 3.6.1
JDK-8329959	Update DigestMD5Client.java - fix typo in javadoc string
JDK-8329994	Zap alignment padding bits for ArrayOops in non-release builds
JDK-8330037	Compiler produces invalid bytecode for method class creation from static method
JDK-8330045	Enhance array handling
JDK-8330144	Revise os::free_memory()
JDK-8330157	C2: Add a stress flag for bailouts
JDK-8330159	[C2] Remove or clarify Compile::init_start
JDK-8330182	Start of release updates for JDK 24
JDK-8330183	Add SourceVersion.RELEASE_24
JDK-8330184	Add source 24 and target 24 to javac
JDK-8330191	Fix typo in precompiled.hpp
JDK-8330198	Add some class loading related perf counters to measure VM startup
JDK-8330205	Initial troff manpage generation for JDK 24

Issue ID	Summary
JDK-8330206	Bump minimum boot jdk to JDK 23
JDK-8330302	strace004 can still fail
JDK-8330420	Inverted use of DisplayVMOutputToStderr in ostream_exit
JDK-8330427	Obsolete -XX:+PreserveAllAnnotations
JDK-8330534	Update nsk/jdwp tests to use driver instead of othervm
JDK-8330535	Update nsk/jdb tests to use driver instead of othervm
JDK-8330586	GHA: Drop additional gcc/glibc packages installation for x86_32
JDK-8330606	Redefinition doesn't but should verify the new class
JDK-8330699	Obsolete -XX:+UseEmptySlotsInSupers
JDK-8330702	Update failure handler to don't generate Error message if cores actions are empty
JDK-8330806	test/hotspot/jtreg/compiler/c1/TestLargeMonitorOffset.java fails on ARM32
JDK-8330842	Support AES CBC with Ciphertext Stealing (CTS) in SunPKCS11
JDK-8330846	Add stacks of mounted virtual threads to the HotSpot thread dump
JDK-8330954	since-checker - Fix remaining @ since tags in java.base
JDK-8331008	Implement JEP 478: Key Derivation Function API (Preview)
JDK-8331015	Obsolete -XX:+UseNotificationThread

Issue ID	Summary
JDK-8331051	Add an @since checker test for java.base module
JDK-8331090	Run Ideal_minmax before de-canonicalizing CMoves
JDK-8331117	[PPC64] secondary_super_cache does not scale well
JDK-8331126	[s390x] secondary_super_cache does not scale well
JDK-8331168	Introduce PredicateEntryIterator to iterate through predicate entries
JDK-8331194	NPE in ArrayCreationTree.java with -XX:-UseCompressedOops
JDK-8331295	C2: Do not clone address computations that are indirect memory input to at least one load/store
JDK-8331311	C2: Big Endian Port of 8318446: optimize stores into primitive arrays by combining values into larger store
JDK-8331341	secondary_super_cache does not scale well: C1 and interpreter
JDK-8331385	G1: Prefix HeapRegion helper classes with G1
JDK-8331391	Enhance the keytool code by invoking the buildTrustedCerts method for essential options
JDK-8331411	Shenandoah: Reconsider spinning duration in ShenandoahLock
JDK-8331431	Update to use jtreg 7.4
JDK-8331446	Improve deserialization support
JDK-8331497	Implement JEP 483: Ahead-of-Time Class Loading & Linking

Issue ID	Summary
JDK-8331560	Refactor Hotspot container detection code so that subsystem delegates to controllers
JDK-8331671	Implement JEP 472: Prepare to Restrict the Use of JNI
JDK-8331675	gtest CollectorPolicy.young_min_ergo_vm fails after 8272364
JDK-8331682	Slow networks/Impatient clients can potentially send unencrypted TLSv1.3 alerts that won't parse on the server
JDK-8331725	ubsan: pc may not always be the entry point for a VtableStub
JDK-8331732	[PPC64] Unify and optimize code which converts != 0 to 1
JDK-8331733	[PPC64] saving and restoring CR is not needed at most places
JDK-8331735	UpcallLinker::on_exit races with GC when copying frame anchor
JDK-8331861	[PPC64] Implement load / store assembler functions which take an Address object
JDK-8331911	Reconsider locking for recently disarmed nmethods
JDK-8331935	Add support for primitive array C1 clone intrinsic in PPC
JDK-8331958	Update PC/SC Lite for Suse Linux to 2.3.0
JDK-8331959	Update PKCS#11 Cryptographic Token Interface to v3.1
JDK-8332014	since-checker - Fix @ since tags in jdk.jshell
JDK-8332072	Convert package.html files in java.naming to package-info.java
JDK-8332099	since-checker - Add @ since to package-info in jdk.jsobject

Issue ID	Summary
JDK-8332103	since-checker - Add missing @ since tags to java.desktop
JDK-8332105	Exploded JDK does not include CDS
JDK-8332113	Update nsk.share.Log to be always verbose
JDK-8332120	Potential compilation failure in istream.cpp:205 - loss of data on conversion
JDK-8332124	Jcmd should recognise options that look like requests for help
JDK-8332125	[nmt] Totals in diff report should print out total malloc and mmap diffs
JDK-8332139	SymbolTableHash::Node allocations allocates twice the required memory
JDK-8332158	[XWayland] test/jdk/java/awt/Mouse/EnterExitEvents/ResizingFrameTest.java
JDK-8332161	Test restoring echo in the Console implementation (java.base)
JDK-8332163	C2 SuperWord: refactor PacksetGraph and SuperWord::output into VTransformGraph
JDK-8332249	Micro-optimize Method.hashCode
JDK-8332252	Clean up vmTestbase/vm/share
JDK-8332314	Add window size configuration option to JavaShellToolBuilder interface
JDK-8332362	Implement os::committed_in_range for MacOS and AIX
JDK-8332400	isspace argument should be a valid unsigned char
JDK-8332423	[PPC64] Remove C1_MacroAssembler::call_c_with_frame_resize

Issue ID	Summary
JDK-8332442	C2: refactor Mod cases in Compile::final_graph_reshaping_main_switch()
JDK-8332461	ubsan : dependencies.cpp:906:3: runtime error: load of value 4294967295, which is not a valid value for type 'DepType'
JDK-8332474	Tighten up ToolBox' JavacTask to not silently accept javac crash as a failure
JDK-8332488	Add JVMTI DataDumpRequest to the debug agent
JDK-8332506	SIGFPE In ObjectSynchronizer::is_async_deflation_needed()
JDK-8332516	Serial: Always sample promoted bytes to avoid getting stuck in Full GCs
JDK-8332517	G1: Refactor G1AllocRegion
JDK-8332522	SwitchBootstraps::mappedEnumLookup constructs unused array
JDK-8332524	Instead of printing "TLSv1.3," it is showing "TLS13"
JDK-8332537	C2: High memory usage reported for compiler/loopopts/superword/TestAlignVectorFuzzer.java
JDK-8332551	Test vmTestbase/nsk/monitoring/MemoryNotificationInfo/from/from001/TestDescription.java timed out
JDK-8332587	RISC-V: secondary_super_cache does not scale well
JDK-8332600	javac uses record components source position during compilation
JDK-8332644	Improve graph optimizations
JDK-8332686	InetAddress.ofLiteral can throw StringIndexOutOfBoundsException

Issue ID	Summary
JDK-8332689	RISC-V: Use load instead of trampolines
JDK-8332697	ubsan: shenandoahSimpleBitMap.inline.hpp:68:23: runtime error: signed integer overflow: -9223372036854775808 - 1 cannot be represented in type 'long int'
JDK-8332699	ubsan: jfrEventSetting.inline.hpp:31:43: runtime error: index 163 out of bounds for type 'jfrNativeEventSetting [162]'
JDK-8332717	ZGC: Division by zero in heuristics
JDK-8332738	Debug agent can deadlock on callbackLock when using StackFrame.PopFrames
JDK-8332744	[REDO] 'internal proprietary API' diagnostics if --system is configured to an earlier JDK version
JDK-8332747	Broken links in StructuredTaskScope
JDK-8332786	When dumping static CDS archives, explicitly assert that we don't use a CDS archive
JDK-8332818	ubsan: archiveHeapLoader.cpp:70:27: runtime error: applying non-zero offset 18446744073707454464 to null pointer
JDK-8332842	Optimize empty CopyOnWriteArrayList allocations
JDK-8332850	javac crashes if container for repeatable annotation is not found
JDK-8332854	Unable to build openjdk with --with-harfbuzz=system
JDK-8332901	Select{Current,New}ItemTest.java for Choice don't open popup on macOS

Issue ID	Summary
JDK-8332903	ubsan: opto/output.cpp:1002:18: runtime error: load of value 171, which is not a valid value for type 'bool'
JDK-8332920	C2: Partial Peeling is wrongly applied for CmpU with negative limit
JDK-8333088	ubsan: shenandoahAdaptiveHeuristics.cpp:245:44: runtime error: division by zero
JDK-8333098	ubsan: bytecodeInfo.cpp:318:59: runtime error: division by zero
JDK-8333117	Remove support of remote and manual debuggee launchers
JDK-8333133	Simplify QuickSort::sort
JDK-8333144	docker tests do not work when ubsan is configured
JDK-8333211	NMT Reports: replace manual indentation handling with auto indent
JDK-8333248	VectorGatherMaskFoldingTest.java failed when maximum vector bits is 64
JDK-8333258	C2: high memory usage in PhaseCFG::insert_anti_dependences()
JDK-8333265	De-duplicate method references in java.util.stream.FindOps
JDK-8333277	ubsan: mlib_ImageScanPoly.c:292:43: runtime error: division by zero
JDK-8333300	[JVMCI] add support for generational ZGC
JDK-8333306	gc/arguments/TestParallelGCergo.java fails when largepage are enabled
JDK-8333308	javap --system handling doesn't work on internal class names
JDK-8333313	NullPointerException in lambda instantiating an inner local class in prologue

Issue ID	Summary
JDK-8333317	Test sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java failed with: Invalid ECDH ServerKeyExchange signature
JDK-8333334	C2: Make result of Node::dominates more precise to enhance scalar replacement
JDK-8333344	JMX attaching of Subject does not work when security manager not allowed
JDK-8333354	ubsan: frame.inline.hpp:91:25: and src/hotspot/share/runtime/frame.inline.hpp:88:29: runtime error: member call on null pointer of type 'const struct SmallRegisterMap'
JDK-8333358	java/io/IO/IO.java test fails intermittently
JDK-8333360	PrintNullString.java doesn't use float arguments
JDK-8333361	ubsan,test : libHeapMonitorTest.cpp:518:9: runtime error: null pointer passed as argument 2, which is declared to never be null
JDK-8333363	ubsan: instanceKlass.cpp: runtime error: member call on null pointer of type 'struct AnnotationArray'
JDK-8333364	Minor cleanup could be done in com.sun.crypto.provider
JDK-8333382	[s390x] Enhance popcnt Instruction to use Z15 facilities
JDK-8333391	Test com/sun/jdi/InterruptHangTest.java failed: Thread was never interrupted during sleep
JDK-8333396	Use StringBuilder internally for java.text.Format.* formatting
JDK-8333403	Write a test to check various components events are triggered properly
JDK-8333412	[s390x] Add support for branch on count instruction

Issue ID	Summary
JDK-8333427	langtools/tools/javac/newlines/NewLineTest.java is failing on Japanese Windows
JDK-8333446	Add tests for hierarchical container support
JDK-8333456	CompactNumberFormat integer parsing fails when string has no suffix
JDK-8333477	Delete extra empty spaces in Makefiles
JDK-8333522	JFR SwapSpace event might read wrong free swap space size
JDK-8333542	Breakpoint in parallel code does not work
JDK-8333572	Update jpackage.md with info related to WiX v4 and v5 support
JDK-8333582	Update CLDR to Version 46.0
JDK-8333583	Crypto-XDH.generateSecret regression after JDK-8329538
JDK-8333599	Improve description of \b matcher in j.u.r.Pattern
JDK-8333639	ubsan: cppVtables.cpp:81:55: runtime error: index 14 out of bounds for type 'long int [1]'
JDK-8333641	Serial: Remove Generation::supports_tlab_allocation
JDK-8333649	Allow different NativeCall encodings
JDK-8333652	RISC-V: compiler/vectorapi/VectorGatherMaskFoldingTest.java fails when using RVV
JDK-8333653	Remove MallocHeader::get_stack

Issue ID	Summary
JDK-8333658	NMT: Use an allocator with 4-byte pointers to save memory in NativeCallStackStorage
JDK-8333680	com/sun/tools/attach/BasicTests.java fails with "SocketException: Permission denied: connect"
JDK-8333684	C2 SuperWord: multiple smaller refactorings in preparation for JDK-8332163
JDK-8333685	Make update-copyright-year script more useful
JDK-8333713	C2 SuperWord: cleanup in vectornode.cpp/hpp
JDK-8333714	Cleanup the usages of CHECK_EXCEPTION_NULL_FAIL macro in java launcher
JDK-8333716	Shenandoah: Check for disarmed method before taking the nmethod lock
JDK-8333722	Fix CompilerDirectives for non-compiler JVM variants
JDK-8333724	Problem list security/infra/java/security/cert/CertPathValidator/certification/CAInterop.java #teliasonerarootcav1
JDK-8333728	ubsan: shenandoahFreeSet.cpp:1347:24: runtime error: division by zero
JDK-8333729	C2 SuperWord: remove some @requires usages in test/hotspot/jtreg/compiler/loopopts/superword
JDK-8333730	ubsan: FieldIndices/libFieldIndicesTest.cpp:276:11: runtime error: null pointer passed as argument 2, which is declared to never be null
JDK-8333742	ProcessImpl and ProcessHandleImpl may mishandle processes that exit with code 259

Issue ID	Summary
JDK-8333743	Change .jcheck/conf branches property to match valid branches
JDK-8333748	javap crash - Fatal error: Unmatched bit position 0x2 for location CLASS
JDK-8333749	Consolidate ConstantDesc conversion in java.base
JDK-8333754	Add a Test against ECDSA and ECDH NIST Test vector
JDK-8333755	NumberFormat integer only parsing breaks when format has suffix
JDK-8333756	java/lang/instrument/NativeMethodPrefixApp.java failed due to missing intrinsic
JDK-8333766	Stack overflow with anonymous class in super() parameter
JDK-8333768	Minor doc updates to java.lang.{Float, Double}
JDK-8333769	Pretouching tests dont test pretouching
JDK-8333772	Incorrect Kerberos behavior when udp_preference_limit = 0
JDK-8333774	Avoid eagerly loading various EmptySpliterator classes
JDK-8333775	Small improvement to outputStream auto-indentation mode
JDK-8333779	Parallel: Remove Summary phase related debug print during Full GC
JDK-8333786	Serial: Remove SerialHeap::_incremental_collection_failed
JDK-8333791	Fix memory barriers for @Stable fields
JDK-8333796	Add missing serialization functionality to sun.reflect.ReflectionFactory

Issue ID	Summary
JDK-8333801	Typos in @code references of BufferedImage and JTableHeader
JDK-8333804	java/net/httpclient/ForbiddenHeadTest.java threw an exception with 0 failures
JDK-8333805	Replaying compilation with null static final fields results in a crash
JDK-8333812	ClassFile.verify() can throw exceptions instead of returning VerifyErrors
JDK-8333819	Move embedded external addresses from relocation info into separate global table
JDK-8333823	Update --release 23 symbol information for JDK 23 build 26
JDK-8333824	Unused ClassValue in VarHandles
JDK-8333826	Update --release 23 symbol information for JDK 23 build 29
JDK-8333827	JDK 23 RDP1 L10n resource files update
JDK-8333828	Use value javadoc tag in java.lang.{Float, Double}
JDK-8333829	ProblemList sun/security/pkcs11/sslecc/ClientJSSEServerJSSE.java due to JDK-8333317
JDK-8333833	Remove the use of ByteArrayLittleEndian from UUID::toString
JDK-8333840	C2 SuperWord: wrong result for MulAddS2I when inputs permuted
JDK-8333841	Add more logging into setfldw001 tests
JDK-8333843	Provide guidelines on MemorySegment to read strings with known lengths
JDK-8333849	(dc) DatagramChannel send/receive fails with UOE if buffer backed by memory segment allocated from shared arena

Issue ID	Summary
JDK-8333854	IllegalAccessError with proxies after JDK-8332457
JDK-8333867	SHA3 performance can be improved
JDK-8333876	C2 SuperWord: regression after JDK-8325155: failed: internal connection
JDK-8333884	MemorySegment::reinterpret removes read-only property
JDK-8333886	Explicitly specify that asSlice and reinterpret return a memory segment backed by the same region of memory.
JDK-8333887	ubsan: unsafe.cpp:247:13: runtime error: store to null pointer of type 'volatile int'
JDK-8333890	Fatal error in auto-vectorizer with float16 kernel.
JDK-8333893	Optimization for StringBuilder append boolean & null
JDK-8333917	G1: Refactor G1CollectedHeap::register_old_region_with_region_attr
JDK-8333926	Shenandoah: Lower default immediate garbage threshold
JDK-8333931	Problemlist serviceability/jvmti/vthread/CarrierThreadEventNotification
JDK-8333940	Ensure javax/swing/TestUngrab.java run on all platforms
JDK-8333954	Parallel: Remove unused arguments of type ParCompactionManager*
JDK-8333962	Obsolete OldSize
JDK-8333964	RISC-V: C2: Check "requires_strict_order" flag for floating-point add reduction
JDK-8333972	Parallel: Remove unused methods in PSOldGen

Issue ID	Summary
JDK-8333994	NMT: call stacks should show source information
JDK-8334010	VM crashes with ObjectAlignmentInBytes > GCCardSizeInBytes
JDK-8334026	Provide a diagnostic PrintMemoryMapAtExit switch on Linux
JDK-8334028	HttpClient: NPE thrown from assert statement
JDK-8334031	Generated JfrNativeSettings seems off
JDK-8334032	javax.print: Missing @since tag in new class OutputBin
JDK-8334036	Update JCoV for class file version 68
JDK-8334037	Local class creation in lambda in pre-construction context crashes javac
JDK-8334040	jdk/classfile/CorpusTest.java timed out
JDK-8334043	VerifyError when inner class is accessed in prologue
JDK-8334055	Unhelpful 'required: reference' diagnostics after JDK-8043226
JDK-8334057	JLinkReproducibleTest.java support receive test.tool.vm.opts
JDK-8334060	Implementation of Late Barrier Expansion for G1
JDK-8334077	Fix problem list entries for compiler tests
JDK-8334078	RISC-V: TestIntVect.java fails after JDK-8332153 when running without RVV
JDK-8334083	C2 SuperWord: TestCompatibleUseDefTypeSize.java fails with -XX:+AlignVector after JDK-8325155

Issue ID	Summary
JDK-8334085	Test crash: assert(thread→held_monitor_count() == 0) failed: Must be
JDK-8334097	Parallel: Obsolete HeapFirstMaximumCompactionCount
JDK-8334107	Specification for MemorySegment::get/setString could use some clarification
JDK-8334121	Anonymous class capturing two enclosing instances fails to compile
JDK-8334123	log the opening of Type 1 fonts
JDK-8334145	<pid> missing from vm_memory_map_<pid>.txt in System.dump_map help text
JDK-8334147	Shenandoah: Avoid taking lock for disabled free set logging
JDK-8334162	Gatherer.defaultCombiner has an erroneous @see-link
JDK-8334164	The fix for JDK-8322811 should use _filename.is_set() rather than strcmp()
JDK-8334165	Remove serialVersionUID compatibility logic from JMX
JDK-8334166	Enable binary check
JDK-8334167	Test java/lang/instrument/NativeMethodPrefixApp.java timed out
JDK-8334169	Long arguments of attach operation are silently truncated on Windows
JDK-8334170	bug6492108.java test failed with exception Image comparison failed at (0, 0) for image 4
JDK-8334179	VMATreeTest.TestConsistencyWithSimpleTracker_vm runs 50+ seconds
JDK-8334180	NMT gtests introduced with 8312132 should be labeled as NMT

Issue ID	Summary
JDK-8334215	serviceability/dcmd/thread/PrintMountedVirtualThread.java failing with JTREG_TEST_THREAD_FACTORY=Virtual
JDK-8334217	[AIX] Misleading error messages after JDK-8320005
JDK-8334220	Optimize Klass layout after JDK-8180450
JDK-8334222	exclude containers/cgroup/PlainRead.java
JDK-8334223	Make Arena MEMFLAGS immutable
JDK-8334228	C2 SuperWord: fix JDK-24 regression in VPointer::cmp_for_sort after JDK-8325155
JDK-8334229	Optimize InterpreterOopMap layout
JDK-8334230	Optimize C2 classes layout
JDK-8334231	Optimize MethodData layout
JDK-8334232	Optimize C1 classes layout
JDK-8334239	Introduce macro for ubsan method/function exclusions
JDK-8334241	Adjust API docs side bar dimensions
JDK-8334248	Invalid error for early construction local class constructor method reference
JDK-8334252	Verifier error for lambda declared in early construction context
JDK-8334258	Compiler erroneously allows access to instance variable in argument expression of a constructor invocation
JDK-8334287	Man page update for jstatd deprecation

Issue ID	Summary
JDK-8334293	G1: Refactor G1ConcurrentMark::update_top_at_rebuild_start
JDK-8334295	CTW: update modules
JDK-8334297	(so) java/nio/channels/SocketChannel/OpenLeak.java should not depend on SecurityManager
JDK-8334299	Deprecate LockingMode option, along with LM_LEGACY and LM_MONITOR
JDK-8334301	Errors in jpackage man page
JDK-8334305	Remove all code for nsk.share.Log verbose mode
JDK-8334315	Shenandoah: reduce GC logging noise
JDK-8334319	Missing keys in jpackage resource bundle
JDK-8334328	Reduce object allocation for FloatToDecimal and DoubleToDecimal
JDK-8334332	TestIOException.java fails if run by root
JDK-8334333	MissingResourceCauseTestRun.java fails if run by root
JDK-8334339	Test java/nio/file/attribute/BasicFileAttributeView/CreationTime.java fails on alinux3
JDK-8334342	Add MergeStore JMH benchmarks
JDK-8334357	Use NonInterleavingLogStream for report_metadata_oom
JDK-8334371	[AIX] Beginning with AIX 7.3 TL1 mmap() supports 64K memory pages
JDK-8334392	Switch RNG in NMT's treap

Issue ID	Summary
JDK-8334394	Race condition in Class::protectionDomain
JDK-8334396	RISC-V: verify perf of ReverseBytes/L
JDK-8334397	RISC-V: verify perf of ReverseBytesS/US
JDK-8334399	[JVMCI] Implement JVMCICompiler::is_intrinsic_supported
JDK-8334405	java/nio/channels/Selector/SelectWithConsumer.java#id0 failed in testWakeupDuringSelect
JDK-8334418	Update IANA Language Subtag Registry to Version 2024-06-14
JDK-8334421	assert(!oldbox→is_unbalanced()) failed: this should not be called for unbalanced region
JDK-8334430	Clean up nativeInst_x86.*
JDK-8334431	C2 SuperWord: fix performance regression due to store-to-load-forwarding failures
JDK-8334433	jshell.exe runs an executable test.exe on startup
JDK-8334437	De-duplicate ProxyMethod list creation
JDK-8334441	Mark tests in jdk_security_infra group as manual
JDK-8334442	Temporarily disable return type assertion to reduce noise in testing
JDK-8334445	Parallel: Decouple maximum compaction from SoftReference clearing
JDK-8334457	Test javax/swing/JTabbedPane/bug4666224.java fail on macOS with because pressing the 'C' key does not switch the layout to WRAP_TAB_LAYOUT

Issue ID	Summary
JDK-8334466	Ambiguous method call with generics may cause <code>FunctionDescriptorLookupError</code>
JDK-8334474	RISC-V: verify perf of <code>ExpandBits/CompressBits (rvv)</code>
JDK-8334475	<code>UnsafeIntrinsicsTest.java#ZGenerationalDebug</code> <code>assert(!assert_on_failure)</code> failed: Has low-order bits set
JDK-8334481	[JVMCI] add <code>LINK_TO_NATIVE</code> to <code>MethodHandleAccessProvider.IntrinsicMethod</code>
JDK-8334482	Shenandoah: Deadlock when safepoint is pending during <code>nmethods</code> iteration
JDK-8334488	Improve error for illegal early access from nested class
JDK-8334489	Add function <code>os::used_memory</code>
JDK-8334490	Normalize string with locale invariant <code>toLowerCase()</code>
JDK-8334492	<code>DiagnosticCommands (jcmd)</code> should accept <code>%p</code> in output filenames and substitute PID
JDK-8334493	Remove <code>SecurityManager Permissions</code> infrastructure from <code>DiagnosticCommands</code>
JDK-8334495	Use <code>FFM</code> instead of <code>jdk.internal.misc.Unsafe</code> in <code>java.desktop</code> font implementation
JDK-8334502	<code>gtest/GTestWrapper.java</code> fails on <code>armhf</code> due to <code>LogDecorations.iso8601_utctime_test</code>
JDK-8334505	RISC-V: Several tests fail when <code>MaxVectorSize</code> does not match <code>VM_Version::_initial_vector_length</code>

Issue ID	Summary
JDK-8334509	Cancelling PageDialog does not return the same PageFormat object
JDK-8334544	C2: wrong control assigned in PhaseldealLoop::clone_assertion_predicate_for_unswitched_loops()
JDK-8334545	runtime/ClassInitErrors/TestStackOverflowDuringInit.java fails after JDK-8294960
JDK-8334554	RISC-V: verify & fix perf of string comparison
JDK-8334560	[PPC64]: postalloc_expand_java_dynamic_call_sched does not copy all fields
JDK-8334562	Automate com/sun/security/auth/callback/TextCallbackHandler/Default.java test
JDK-8334564	VM startup: fatal error: FLAG_SET_ERGO cannot be used to set an invalid value for NonNMethodCodeHeapSize
JDK-8334567	[test] runtime/os/TestTracePageSizes move ppc handling
JDK-8334570	Problem list gc/TestAlwaysPreTouchBehavior.java
JDK-8334571	Extract control dependency rewiring out of PhaseldealLoop::dominated_by() into separate method
JDK-8334580	Deprecate no-arg constructor BasicSliderUI() for removal
JDK-8334594	Generational ZGC: Deadlock after OopMap rewrites in 8331572
JDK-8334598	Default classlist in JDK is not deterministic after JDK-8293980
JDK-8334599	Improve code from JDK-8302671
JDK-8334600	TEST java/net/MulticastSocket/IPMulticastIF.java fails on linux-aarch64

Issue ID	Summary
JDK-8334618	ubsan: support setting additional ubsan check options
JDK-8334629	[BACKOUT] PhasaldealLoop::conditional_move is too conservative
JDK-8334645	Un-problemlist vmTestbase/nsk/sysdict/vm/stress/chain/chain007/chain007.java
JDK-8334647	C2: CastII added by PhasaldealLoop::add_template_assertion_predicate() should have control
JDK-8334650	Add debug information about whether an Assertion Predicate is for the init or last value
JDK-8334653	ISO 4217 Amendment 177 Update
JDK-8334670	SSLSocketOutputRecord buffer miscalculation
JDK-8334679	Wrong bug number in regression test for JDK-8334252
JDK-8334695	Fix build failure without zgc after JDK-8333300
JDK-8334706	[JVMCI] APX registers incorrectly exposed on AMD64
JDK-8334708	FFM: two javadoc problems
JDK-8334714	Implement JEP 484: Class-File API
JDK-8334715	[riscv] Mixed use of tab and whitespace in riscv.ad
JDK-8334719	(se) Deferred close of SelectableChannel may result in a Selector doing the final close before concurrent I/O on channel has completed
JDK-8334724	C2: remove PhasaldealLoop::cast_incr_before_loop()

Issue ID	Summary
JDK-8334726	Remove accidentally exposed individual methods from Class-File API
JDK-8334733	Remove obsolete @enablePreview from tests after JDK-8334714
JDK-8334734	Remove specialized readXxxEntry methods from ClassReader
JDK-8334738	os::print_hex_dump should optionally print ASCII
JDK-8334755	Asymptotically faster implementation of square root algorithm
JDK-8334757	AssertionError: Missing type variable in where clause
JDK-8334758	Incorrect note in Javadoc for a few RandomGenerator methods
JDK-8334763	--enable-asan: assert(_thread→is_in_live_stackaddress)this failed: not on stack?
JDK-8334765	JFR: Log chunk waste
JDK-8334769	Shenandoah: Move CodeCache_lock close to its use in ShenandoahConcurrentNMethodIterator
JDK-8334771	[TESTBUG] Run TestDockerMemoryMetrics.java with -Xcomp fails exitValue = 137
JDK-8334772	Change Class::signers to an explicit field
JDK-8334777	Test javax/management/remote/mandatory/notif/NotifReconnectDeadlockTest.java failed with NullPointerException
JDK-8334779	Test compiler/c1/CanonicalizeArrayLength.java is timing out
JDK-8334780	Crash: assert(h_array_list.not_null()) failed: invariant

Issue ID	Summary
JDK-8334781	JFR crash: assert(((JfrTraceIdBits::load(klass & JfrTraceIdEpoch::this_epoch_method_and_class_bits()) != 0))) failed: invariant
JDK-8334810	Redo: Un-ProblemList LocaleProvidersRun and CalendarDataRegression
JDK-8334816	compiler/c2/irTests/TestIfMinMax.java fails after 8334629
JDK-8334843	RISC-V: Fix wraparound checking for r_array_index in lookup_secondary_supers_table_slow_path
JDK-8334870	javac does not accept classfiles with certain permitted RuntimeVisibleParameterAnnotations and RuntimeInvisibleParameterAnnotations attributes
JDK-8334872	BigEndian: java/lang/invoke/condy Tests failing since JDK-8294960
JDK-8334886	jdk/jfr/api/recording/time/TestTimeMultiple.java failed with RuntimeException: getStopTime() > afterStop
JDK-8334890	Missing unconditional cross modifying fence in nmethod entry barriers
JDK-8334895	OpenJDK fails to configure on linux aarch64 when CDS is disabled after JDK-8331942
JDK-8334899	Test runtime/cds/appcds/javald/ExceptionDuringDumpAtObjectsInitPhase.java failed after JDK-8306580
JDK-8334999	RISC-V: implement AES single block encryption/decryption intrinsics
JDK-8335006	C2 SuperWord: add JMH benchmark VectorLoadToStoreForwarding.java
JDK-8335007	Inline OopMapCache table

Issue ID	Summary
JDK-8335059	Consider renaming <code>ClassLoaderData::keep_alive</code>
JDK-8335060	<code>ClassCastException</code> after JDK-8294960
JDK-8335062	NMT: Make <code>StackIndex</code> non-opaque
JDK-8335091	NMT: <code>VMATree</code> <code>reserve_mapping</code> and <code>commit_mapping</code> APIs need <code>MEMFLAGS</code> while <code>un/-committing</code> API has no <code>MEMFLAGS</code> arg
JDK-8335108	Build error after JDK-8333658 due to class templates
JDK-8335110	Fix instruction name and API spec inconsistencies in <code>CodeBuilder</code>
JDK-8335120	<code>assert(!target→can_be_statically_bound() target == cha_monomorphic_target) failed</code>
JDK-8335121	Native memory leak when not recording any events
JDK-8335122	Reorganize internal low-level support for HTML in <code>jdk.javadoc</code>
JDK-8335124	<code>com/sun/management/ThreadMXBean/ThreadCpuTimeArray.java</code> failed with CPU time out of expected range
JDK-8335126	Shenandoah: Improve OOM handling
JDK-8335130	The test <code>"javax/swing/plaf/synth/ComponentsOrientationSupport/5033822/bug5033822.java"</code> fails because the background color of the tabs is displayed incorrectly.
JDK-8335131	Test <code>"javax/swing/JColorChooser/Test6977726.java"</code> failed on ubuntu x64 because "Preview" title is missing for GTK L&F
JDK-8335134	Test <code>com/sun/jdi/BreakpointOnClassPrepare.java</code> timeout

Issue ID	Summary
JDK-8335135	URLConnection#HttpInputStream does not throw IOException when response is truncated
JDK-8335136	Underscore as parameter name in one-parameter functional types fails to compile
JDK-8335142	compiler/c1/TestTraceLinearScanLevel.java occasionally times out with -Xcomp
JDK-8335147	Serial: Refactor TenuredGeneration::promote
JDK-8335150	Test LogGeneratedClassesTest.java fails on rpmbuild mock environment
JDK-8335154	jcmm VM.classes -verbose=false does not set verbose to false
JDK-8335159	Move method reference to lambda desugaring before Lower
JDK-8335167	Test runtime/Thread/TestAlwaysPreTouchStacks.java failed with Expected a higher ratio between stack committed and reserved
JDK-8335172	Add manual steps to run security/auth/callback/TextCallbackHandler/Password.java test
JDK-8335181	Incorrect handling of HTTP/2 GOAWAY frames in HttpClient
JDK-8335182	Consolidate and streamline String concat code shapes
JDK-8335191	RISC-V: verify perf of chacha20
JDK-8335213	Code snippet in javax.naming ldap package summary does not compile
JDK-8335217	Fix memory ordering in ClassLoaderData::ChunkedHandleList
JDK-8335220	C2: Missing check for Opaque4 node in EscapeAnalysis

Issue ID	Summary
JDK-8335221	Some C2 intrinsics incorrectly assume that type argument is compile-time constant
JDK-8335231	[macos] Test java/awt/print/PrinterJob/Cancel/PrinterJobCancel.java failed on macOS because the case didn't get the expected PrintAbortException
JDK-8335237	ubsan: vtableStubs.hpp is_vtable_stub exclude from ubsan checks
JDK-8335252	Reduce size of j.u.Formatter.Conversion#isValid
JDK-8335257	Refactor code to create Initialized Assertion Predicates into separate class
JDK-8335267	[XWayland] move screencast tokens from .awt to .java folder
JDK-8335269	[Graal] occasional timeout in java/lang/StringBuffer/TestSynchronization.java with loom
JDK-8335271	Specify the MessageFormat ArgumentIndex Implementation Limit
JDK-8335274	SwitchBootstraps.ResolvedEnumLabels.resolvedEnum should be final
JDK-8335283	Build failure due to 'no-sanitize' attribute directive ignored
JDK-8335288	SunPKCS11 initialization will call C_GetMechanismInfo on unsupported mechanisms
JDK-8335290	Rename ClassFile::transform to ClassFile::transformClass
JDK-8335291	Problem list all SA core file tests on macosx-aarch64 due to JDK-8318754
JDK-8335294	Fix simple -Wzero-as-null-pointer-constant warnings in gc code
JDK-8335298	Fix -Wzero-as-null-pointer-constant warning in G1CardSetContainers

Issue ID	Summary
JDK-8335308	compiler/uncommontrap/DeoptReallocFailure.java times out with SerialGC on Windows
JDK-8335314	Problem list compiler/uncommontrap/DeoptReallocFailure.java
JDK-8335334	Stress mode to randomly execute unstable if traps
JDK-8335344	test/jdk/sun/security/tools/keytool/NssTest.java fails to compile
JDK-8335349	jcmm VM.classloaders "fold" option should be optional
JDK-8335356	Shenandoah: Improve concurrent cleanup locking
JDK-8335357	Delete HotSpotJDKReflection.oopSizeOffset
JDK-8335362	[Windows] Stack pointer increment in _cont_thaw stub can cause program to terminate with exit code 0xc0000005
JDK-8335369	Fix -Wzero-as-null-pointer-constant warnings in ImmutableOopMapBuilder
JDK-8335370	Fix -Wzero-as-null-pointer-constant warning in jvmti_common.hpp
JDK-8335385	javac crash on unattributed piece of AST
JDK-8335390	C2 MergeStores: wrong result with Unsafe
JDK-8335392	C2 MergeStores: enhanced pointer parsing
JDK-8335393	C2: assert(!had_error) failed: bad dominance
JDK-8335395	G1: Verification does not detect references into Free regions
JDK-8335397	Improve reliability of TestRecursiveMonitorChurn.java

Issue ID	Summary
JDK-8335409	Can't allocate and retain memory from resource area in frame::oops_interpreted_do oop closure after 8329665
JDK-8335411	RISC-V: Optimize encode_heap_oop when oop is not null
JDK-8335428	Enhanced Building of Processes
JDK-8335444	Generalize implementation of AndNode mul_ring
JDK-8335449	runtime/cds/DeterministicDump.java fails with File content different at byte ...
JDK-8335468	[XWayland] JavaFX hangs when calling java.awt.Robot.getPixelColor
JDK-8335475	ClassBuilder incorrectly calculates max_locals in some cases
JDK-8335479	JFR: Missing documentation for -XX:StartFlightRecording
JDK-8335480	Only deoptimize threads if needed when closing shared arena
JDK-8335493	check_gc_overhead_limit should reset SoftRefPolicy::_should_clear_all_soft_refs
JDK-8335530	Java file extension missing in AuthenticatorTest
JDK-8335532	[JVMCI] Export VM_Version::L1_line_size in JVMCI
JDK-8335533	OutOfMemoryError: Metaspace observed again on AIX in test RedefineLeakThrowable.java after JDK-8294960
JDK-8335536	Fix assertion failure in IdealGraphPrinter when append is true
JDK-8335544	Serial: Remove unused _should_allocate_from_space

Issue ID	Summary
JDK-8335553	[Graal] Compiler thread calls into <code>jdk.internal.vm.VMSupport.decodeAndThrowThrowable</code> and crashes in OOM situation
JDK-8335577	<code>runtime/cds/appcds/TestParallelGCWithCDS.java</code> still fails with JNI error
JDK-8335583	Avoid using pointers in CDS tables
JDK-8335588	Fix <code>-Wzero-as-null-pointer-constant</code> warnings in calls to <code>Node</code> ctor
JDK-8335589	Fix <code>-Wzero-as-null-pointer-constant</code> warnings in <code>IdealLoopTree</code> ctor
JDK-8335591	Fix <code>-Wzero-as-null-pointer-constant</code> warnings in <code>ConcurrentHashTable</code>
JDK-8335592	Fix <code>-Wzero-as-null-pointer-constant</code> warnings in <code>RootNode</code> ctor
JDK-8335593	Fix <code>-Wzero-as-null-pointer-constant</code> warning in <code>Type_Array</code> ctor
JDK-8335604	Serial: <code>Inline Generation::contiguous_available</code>
JDK-8335607	Serial: Remove unused <code>collection_attempt_is_safe</code>
JDK-8335610	DiagnosticFramework: <code>CmdLine::is_executable()</code> correction
JDK-8335615	Clean up left-overs from 8317721
JDK-8335618	Serial: Remove unused definitions in <code>SerialHeap</code>
JDK-8335619	Add an <code>@apiNote</code> to <code>j.l.i.ClassFileTransformer</code> to warn about recursive class loading and <code>ClassCircularityErrors</code>
JDK-8335623	Clean up <code>HtmlTag.HtmlTag</code> and make the ARIA role attribute global
JDK-8335625	Update Javadoc for <code>GetCpuLoad</code>

Issue ID	Summary
JDK-8335628	C2 SuperWord: cleanup: remove SuperWord::longer_type_for_conversion
JDK-8335632	jdk/jfr/api/consumer/streaming/TestJVMEExit.java failed with "Process [...] is no longer alive"
JDK-8335637	Add explicit non-null return value expectations to Object.toString()
JDK-8335638	Calling VarHandle.{access-mode} methods reflectively throws wrong exception
JDK-8335642	Hide Transform implementation for Class-File API
JDK-8335643	serviceability/dcmd/vm tests fail for ZGC after JDK-8322475
JDK-8335645	j.u.Formatter#trailingZeros improved with String repeat
JDK-8335654	Remove stale hyperlink in divnode.cpp
JDK-8335655	ProblemList serviceability/dcmd/vm tests failing after JDK-8322475
JDK-8335662	[AArch64] C1: guarantee(val < (1ULL << nbits)) failed: Field too big for insn
JDK-8335663	Fix simple -Wzero-as-null-pointer-constant warnings in C2 code
JDK-8335664	Parsing jsr broken: assert(bci >= 0 && bci < c → method() → code_size()) failed: index out of bounds
JDK-8335667	Fix simple -Wzero-as-null-pointer-constant warnings in compiler code
JDK-8335668	NumberFormat integer only parsing should throw exception for edge case
JDK-8335684	Test ThreadCpuTime.java should pause like ThreadCpuTimeArray.java
JDK-8335688	Fix -Wzero-as-null-pointer-constant warnings from fflush calls in jvmti tests

Issue ID	Summary
JDK-8335706	G1: Remove unused G1ConcurrentRefine::RemSetSamplingClosure::_cset
JDK-8335709	C2: assert(!loop→is_member(get_loop(useblock))) failed: must be outside loop
JDK-8335710	serviceability/dcmd/vm/SystemDumpMapTest.java and SystemMapTest.java fail on Linux Alpine after 8322475
JDK-8335711	G1: Remove unused bot_updates argument in G1AllocRegion constructor
JDK-8335713	Enhance vectorization analysis
JDK-8335730	JFR: Clean up jdk.jfr
JDK-8335742	Problemlist gc/g1/TestMixedGCLiveThreshold.java#25percent with virtual threads
JDK-8335743	jhsdb jstack cannot print some information on the waiting thread
JDK-8335766	Switch case with pattern matching and guard clause compiles inconsistently
JDK-8335771	Improve stability of java/nio/channels/DatagramChannel tests
JDK-8335775	Remove extraneous 's' in comment of rawmonitor.cpp test file
JDK-8335778	runtime/ClassInitErrors/TestStackOverflowDuringInit.java fails on ppc64 platforms after JDK-8334545
JDK-8335779	JFR: Hide sleep events
JDK-8335789	[TESTBUG] XparColor.java test fails with Error. Parse Exception: Invalid or unrecognized bugid: @
JDK-8335802	Improve startup speed HexFormat uses boolean instead of enum

Issue ID	Summary
JDK-8335806	RISC-V: Corrected typos Bizarrely
JDK-8335817	javac AssertionError addLocalVar checkNull
JDK-8335820	java/lang/invoke/LFCaching/LFSingleThreadCachingTest.java fails due to IllegalArgumentException: hash must be nonzero
JDK-8335823	Update --release 23 symbol information for JDK 23 build 33
JDK-8335824	Test gc/arguments/TestMinInitialErgonomics.java is timing out
JDK-8335836	serviceability/jvmti/StartPhase/AllowedFunctions/AllowedFunctions.java fails with unexpected exit code: 112
JDK-8335843	C2 hits assert(!_print_inlining_stream → size() > 0) failed: missing inlining msg
JDK-8335860	compiler/vectorization/TestFloat16VectorConvChain.java fails with non-standard AVX/SSE settings
JDK-8335861	Problem list compiler/vectorization/TestFloat16VectorConvChain.java
JDK-8335865	Shenandoah: Improve THP pretouch after JDK-8315923
JDK-8335880	More troubleshooting tips around windows space in path
JDK-8335882	platform/cgroup/TestSystemSettings.java fails on Alpine Linux
JDK-8335896	Source launcher should set TCCL
JDK-8335902	Parallel: Refactor VM_ParallelGCFailedAllocation and VM_ParallelGCSystemGC
JDK-8335904	Fix invalid comment in ShenandoahLock

Issue ID	Summary
JDK-8335905	CompoundElement API cleanup
JDK-8335906	[s390x] Test Failure: GTestWrapper.java
JDK-8335907	JFR: Make SettingControls more robust
JDK-8335911	Document ccls indexer in doc/ide.md
JDK-8335912	Add an operation mode to the jar command when extracting to not overwriting existing files
JDK-8335921	Fix HotSpot VM build without JVMTI
JDK-8335922	Incorrect @Stable usage of LambdaForm\$Name.index
JDK-8335925	Serial: Move allocation API from Generation to subclasses
JDK-8335927	Revisit AnnotationConstantValueEntry and AnnotationValue.OfConstant
JDK-8335935	Chained builders not sending transformed models to next transforms
JDK-8335938	Review XxxBuilder.original and XxxModel.parent
JDK-8335939	Hide element writing across the ClassFile API
JDK-8335946	DTrace code snippets should be generated when DTrace flags are enabled
JDK-8335955	JDK-8335742 wrongly used a "JDK-" prefix in the problemlist bug number
JDK-8335966	Remove incorrect problem listing of java/lang/instrument/NativeMethodPrefixAgent.java in ProblemList-Virtual.txt
JDK-8335967	"text-decoration: none" does not work with "A" HTML tags

Issue ID	Summary
JDK-8335977	Deoptimization fails with assert "object should be reallocated already"
JDK-8335981	ProblemList runtime/Thread/TestAlwaysPreTouchStacks.java for MacOS
JDK-8335989	Implement JEP 494: Module Import Declarations (Second Preview)
JDK-8335991	Implement Simple Source Files and Instance Main Methods (Fourth Preview)
JDK-8336012	Fix usages of jtreg-reserved properties
JDK-8336021	Doccheck: valign not allowed for HTML5 in java.xml
JDK-8336025	Improve ZipOutputStream validation of MAX CEN Header field limits
JDK-8336032	Enforce immutability of Lists used by ClassFile API
JDK-8336036	Synthetic documentation for a record's equals is incorrect for floating-point types
JDK-8336039	Doccheck: HTML warnings, broken links and missing files in java.base documentation
JDK-8336040	Missing closing anchor element in Docs.gmk
JDK-8336041	Doccheck: the jfr command doesn't show the correct command-line options
JDK-8336080	Fix -Wzero-as-null-pointer-constant warnings in ClassLoaderStats ctor
JDK-8336081	Fix -Wzero-as-null-pointer-constant warnings in JVMTypedFlagLimit ctors
JDK-8336082	Fix -Wzero-as-null-pointer-constant warnings in SimpleCompactHashtable
JDK-8336085	Fix simple -Wzero-as-null-pointer-constant warnings in CDS code

Issue ID	Summary
JDK-8336086	G1: Use one G1CardSet instance for all young regions
JDK-8336087	Doccheck: the jpackage command page doesn't show the correct command-line options
JDK-8336091	Fix HTML warnings in the generated HTML files
JDK-8336095	Use-after-free in Superword leads to memory corruption
JDK-8336098	G1: Refactor G1RebuildRSAndScrubTask
JDK-8336103	Clean up confusing Method::is_initializer
JDK-8336148	Test runtime/locking/TestRecursiveMonitorChurn.java failed: Unexpected Inflation
JDK-8336152	Remove unused forward declaration in classLoadInfo.hpp
JDK-8336163	Remove declarations of some debug-only methods in release build
JDK-8336239	Fix javadoc markup in java.lang.Process
JDK-8336240	Test com/sun/crypto/provider/Cipher/DES/PerformanceTest.java fails with java.lang.ArithmeticException
JDK-8336242	compiler/jvmci/jdk.vm.ci.code.test/src/jdk/vm/ci/code/test/SimpleDebugInfoTest.java failed assert(oopDesc::is_oop_or_null(val)) failed: bad oop found (again)
JDK-8336245	AArch64: remove extra register copy when converting from long to pointer
JDK-8336254	Virtual thread implementation + test updates
JDK-8336256	memcpy short value to int local is incorrect in VtableStubs::unsafe_hash

Issue ID	Summary
JDK-8336257	Additional tests in jmxremote/startstop to match on PID not app name
JDK-8336258	Document the behavior of 'exclude' and 'compileonly' with respect to inlining
JDK-8336259	Wrong link to stylesheet.css in JavaDoc API documentation
JDK-8336267	Method and Constructor signature parsing can be shared on the root object
JDK-8336274	MutableBigInteger.leftShift(int) optimization
JDK-8336278	Micro-optimize Replace String.format("%n") to System.lineSeparator
JDK-8336284	Test TestClhsdbJstackLock.java/TestJhsdbJstackLock.java fails with -Xcomp after JDK-8335743
JDK-8336289	Obliterate most references to _snprintf in the Windows JDK
JDK-8336297	C2: Fix -Wzero-as-null-pointer-constant warnings in derived Node ctors
JDK-8336299	Improve GCLocker stall diagnostics
JDK-8336300	DateFormatSymbols#getInstanceRef returns non-cached instance
JDK-8336301	test/jdk/java/nio/channels/AsyncCloseAndInterrupt.java leaves around a FIFO file upon test completion
JDK-8336315	tools/jpackage/windows/WinChildProcessTest.java Failed: Check is calculator process is alive
JDK-8336316	JFR: Use SettingControl::getValue() instead of setValue() for ActiveSetting event
JDK-8336320	NullPointerException: Cannot invoke Type.getTag because type is null after JDK-8334037

Issue ID	Summary
JDK-8336339	(se) SelectionKey.interestOps(int) should not throw ClosedSelectorException
JDK-8336342	Fix known X11 library locations in sysroot
JDK-8336343	Add more known sysroot library locations for ALSA
JDK-8336346	Fix -Wzero-as-null-pointer-constant warnings in jvmciJavaClasses.cpp
JDK-8336349	Fix more simple -Wzero-as-null-pointer-constant warnings in C2 code
JDK-8336375	Crash on paste to JShell
JDK-8336384	AbstractQueuedSynchronizer.acquire should cancel acquire when failing due to a LinkageError or other errors
JDK-8336401	Remove the option onjcmd from the jdwp agent
JDK-8336410	runtime/NMT/TotalMallocMmapDiffTest.java Total malloc diff is incorrect. Expected malloc diff range
JDK-8336413	gtk headers : Fix typedef redeclaration of GMainContext and GdkPixbuf
JDK-8336420	Add JVMTI setfldw001 and setfmodw001 tests to Xcomp problem list
JDK-8336421	ciMethod() constructor should use ConditionalMutexLocker(Compile_lock)
JDK-8336462	ConcurrentSkipListSet Javadoc incorrectly warns about size method complexity
JDK-8336463	Parallel: Add PSOldGen::expand_and_allocate
JDK-8336465	C2: EA incorrectly/unnecessarily checks for clinit
JDK-8336466	C2: Parser incorrectly/unnecessarily checks for clinit

Issue ID	Summary
JDK-8336468	Reflection and MethodHandles should use more precise initializer checks
JDK-8336474	Problemlist compiler/interpreter/Test6833129 on x86_32
JDK-8336479	Provide Process.waitFor(Duration)
JDK-8336485	jdk/jfr/jcmd/TestJcmdView.java RuntimeException: 'Invoked Concurrent' missing from stdout/stderr
JDK-8336489	Track scoped accesses in JVMCI compiled code
JDK-8336491	Unnecessary boxing conversions in void-returning lambdas
JDK-8336492	Regression in lambda serialization
JDK-8336495	Remove unnecessary casts in output.cpp
JDK-8336498	[macos] [build]: install-file macro may run into permission denied error
JDK-8336499	Failure when creating non-CRT RSA private keys in SunPKCS11
JDK-8336529	(fs) UnixFileAttributeViews setTimes() failing on armhf, Ubuntu noble
JDK-8336564	Enhance mask blit functionality redux
JDK-8336585	BoundAttribute.readEntryList not type-safe
JDK-8336587	failure_handler lldb command times out on macosx-aarch64 core file
JDK-8336588	Ensure Transform downstream receives upstream start items only after downstream started
JDK-8336635	Add IR test for Reference.refersTo intrinsic

Issue ID	Summary
JDK-8336638	Parallel: Remove redundant mangle in PSScavenge::invoke
JDK-8336640	Shenandoah: Parallel worker use in parallel_heap_region_iterate
JDK-8336655	java/net/httpclient/DigestEchoClient.java IOException: HTTP/1.1 header parser received no bytes
JDK-8336661	Parallel: Remove stacks_empty assert in PSScavenge::invoke
JDK-8336663	[JVMCI] VM Crash on ZGC due to incompatible handle returned by HotSpotJVMCIRuntime#getJObjectValue
JDK-8336665	CCE in X509CRLImpl\$TBSCertList.getCertIssuer
JDK-8336667	IAE in DerInputStream.toByteArray
JDK-8336675	Remove UnixFileSystemProvider.checkPath in favor of UnixPath.toUnixPath
JDK-8336679	Add @implSpec for the default implementations in Process.waitFor()
JDK-8336685	Shenandoah: Remove experimental incremental update mode
JDK-8336692	Redo fix for JDK-8284620
JDK-8336702	C2 compilation fails with "all memory state should have been processed" assert
JDK-8336706	Optimize LocalDate.toString with StringBuilder.repeat
JDK-8336707	Contention of ForkJoinPool grows when stealing works
JDK-8336726	C2: assert(!do_asserts projs→fallthrough_ioproj != nullptr) failed: must be found

Issue ID	Summary
JDK-8336729	C2: Div/Mod nodes without zero check could be split through iv phi of outer loop of long counted loop nest resulting in SIGFPE
JDK-8336741	Optimize LocalTime.toString with StringBuilder.repeat
JDK-8336742	Shenandoah: Add more verbose logging/stats for mark termination attempts
JDK-8336753	Don't run serviceability/sa/ClhsdbDumpheap.java with -Xcomp
JDK-8336754	Remodel TypeAnnotation to "has" instead of "be" an Annotation
JDK-8336755	Remove unused UNALIGNED field from view buffers
JDK-8336756	Improve ClassFile Annotation writing
JDK-8336763	Parallel: Merge PCMarkAndPushClosure and PCIterateMarkAndPushClosure
JDK-8336768	Allow captureCallState and critical linker options to be combined
JDK-8336777	BufferedMethodBuilder not initialized with static flag
JDK-8336781	Erroneous exhaustivity check with boolean switch
JDK-8336786	VerifyError with lambda capture and enclosing instance references
JDK-8336787	Examine java.text.Format API for implSpec usage
JDK-8336792	DateTimeFormatterBuilder append zeros based on StringBuilder.repeat
JDK-8336815	Several methods in java.net.Socket and ServerSocket do not specify behavior when already bound, connected or closed
JDK-8336816	runtime/PrintingTests/StringPrinting.java fails with release VMs

Issue ID	Summary
JDK-8336817	Several methods on DatagramSocket and MulticastSocket do not specify behaviour when already closed or connected
JDK-8336827	compiler/vectorization/TestFloat16VectorConvChain.java timeouts on ppc64 platforms after JDK-8335860
JDK-8336830	C2: assert(get_loop(lca) → _nest < n_loop → _nest lca → in(0) → is_NeverBranch()) failed: must not be moved into inner loop
JDK-8336831	Optimize StringConcatHelper.simpleConcat
JDK-8336833	Endless loop in Javap ClassWriter
JDK-8336843	Deprecate java.util.zip.ZipError for removal
JDK-8336844	ZipConstants64 defines duplicate constants EXTID_ZIP64 and ZIP64_EXTID
JDK-8336846	assert(state → get_thread() == jt) failed: handshake unsafe conditions
JDK-8336847	Use pattern match switch in NumberFormat classes
JDK-8336849	Remove .llvm_addrsig section from JDK/VM static libraries (.a files)
JDK-8336854	CAInterop.java#actalisauthenticationrootca conflicted with /manual and /timeout
JDK-8336855	Duplicate protected declaration and comment in interp_masm_aarch64.hpp
JDK-8336856	Efficient hidden class-based string concatenation strategy
JDK-8336860	x86: Change integer src operand for CMoveL of 0 and 1 to long
JDK-8336873	BasicSplitPaneDivider:oneTouchExpandableChanged() should mention that implementation depends on SplitPane.supportsOneTouchButtons property

Issue ID	Summary
JDK-8336874	WhiteBoxAPI: assert(!method→is_abstract() && (osr_bci == InvocationEntryBci !method→is_native())) failed: cannot compile abstract/native methods
JDK-8336879	Always true condition 'img != null' in GTKPainter.paintPopupMenuBackground
JDK-8336895	BufferedReader doesn't read full \r\n line ending when it doesn't fit in buffer
JDK-8336911	ZGC: Division by zero in heuristics after JDK-8332717
JDK-8336912	G1: Undefined behavior for G1ConfidencePercent=0
JDK-8336914	Shenandoah: Missing verification steps after JDK-8255765
JDK-8336915	Shenandoah: Remove unused ShenandoahVerifier::verify_after_evacuation
JDK-8336919	Cleanup and rename tags in placeholders code
JDK-8336926	jdk/internal/util/ReferencedKeyTest.java can fail with ConcurrentModificationException
JDK-8336927	Missing equals and hashCode in java.lang.classfile.Annotation
JDK-8336928	GHA: Bundle artifacts removal broken
JDK-8336934	Clean up JavaLangReflectAccess
JDK-8336935	Test sun/security/krb5/auto/RealmSpecificValues.java fails: java.lang.RuntimeException: Should not reach here
JDK-8336942	Improve test coverage for class loading elements with annotations of different retentions
JDK-8336944	Shenandoah: Should only relativize stack chunks for successful evacuations

Issue ID	Summary
JDK-8336966	Alpine Linux x86_64 compilation error: sendfile64
JDK-8336999	Verification for resource area allocated data structures in C2
JDK-8337027	Parallel: Obsolete BaseFootPrintEstimate
JDK-8337031	Improvements to CompilationMemoryStatistic
JDK-8337037	compiler internal options are not printing the stacktrace after a compiler crash
JDK-8337054	JDK 23 RDP2 L10n resource files update
JDK-8337060	Test java/foreign/TestConcurrentClose.java failed: IllegalStateException: SegmentAccessor::doAccess method not being compiled
JDK-8337062	x86_64: Unordered add/mul reduction support for vector api
JDK-8337066	Repeated call of StringBuffer.reverse with double byte string returns wrong result
JDK-8337067	Test runtime/classFileParserBug/Bad_NCDFE_Msg.java won't compile
JDK-8337102	JITTester: Fix breaks in static initialization blocks
JDK-8337111	Bad HTML checker for generated documentation
JDK-8337113	Bad character checker for generated documentation
JDK-8337114	DocType checker for generated documentation
JDK-8337116	Internal links checker for generated documentation
JDK-8337117	External links checker for generated documentation

Issue ID	Summary
JDK-8337124	(fs) sun.nio.fs.WindowsSecurity.enablePrivilege should pin when continuations supported
JDK-8337163	Improve SA error message when failing to attach to a core file
JDK-8337165	Test jdk/jfr/event/gc/stacktrace/TestG1YoungAllocationPendingStackTrace.java failed: IndexOutOfBoundsException: Index 64 out of bounds for length 64
JDK-8337167	StringSize deduplication
JDK-8337168	Optimize LocalDateTime.toString
JDK-8337192	[BACKOUT] JDK-8336098 G1: Refactor G1RebuildRSAndScrubTask
JDK-8337199	Add jcmd Thread.vthread_scheduler and Thread.vthread_pollers diagnostic commands
JDK-8337205	Typo in Stack vs Deque Method table in Deque specification
JDK-8337213	Shenandoah: Add verification for class mirrors
JDK-8337219	AccessFlags factories do not require necessary arguments
JDK-8337221	CompileFramework: test library to conveniently compile java and jasm sources for fuzzing
JDK-8337222	gc/TestDisableExplicitGC.java fails due to unexpected CodeCache GC
JDK-8337225	Demote maxStack and maxLocals from CodeModel to CodeAttribute
JDK-8337237	Use FFM instead of Unsafe for Java 2D RenderBuffer class
JDK-8337239	Fix simple -Wzero-as-null-pointer-constant warnings in classfile code

Issue ID	Summary
JDK-8337241	Shenandoah: Normalize include guards
JDK-8337243	Fix more -Wzero-as-null-pointer-constant warnings in compiler code
JDK-8337245	Fix wrong comment of StringConcatHelper
JDK-8337265	Test static-libs build in GitHub Actions
JDK-8337267	[REDO] G1: Refactor G1RebuildRSAndScrubTask
JDK-8337268	Redundant Math.ceil in StyleSheet.ListPainter#drawShape
JDK-8337269	G1ConfidencePercent interpreted inconsistently
JDK-8337274	Remove repeated 'the' in StyleSheet.create{Small,Large}AttributeSet
JDK-8337276	jcmm man page update for PID in output filenames
JDK-8337283	configure.log is truncated when build dir is on different filesystem
JDK-8337285	Examine java.text.DecimalFormat API for api/implXxx tag usage
JDK-8337287	Update image in javax.swing.text.Document.insert
JDK-8337299	vmTestbase/nsk/jdb/stop_at/stop_at002/stop_at002.java failure goes undetected
JDK-8337300	java/lang/Process/WaitForDuration.java leaves child process behind
JDK-8337302	Undefined type variable results in null
JDK-8337317	serviceability/jvmti tests failed with FATAL ERROR in native method: Failed during the GetClassSignature call

Issue ID	Summary
JDK-8337318	Deoptimization::relock_objects fails assert(monitor→owner() == Thread::current()) failed: must be
JDK-8337320	Update ProblemList.txt with tests known to fail on XWayland
JDK-8337331	crash: pinned virtual thread will lead to jvm crash when running with the javaagent option
JDK-8337334	Test tools/javac/7142086/T7142086.java timeout with fastdebug binary
JDK-8337339	gc/arguments/Test*SizeFlags.java timing out with Xcomp
JDK-8337344	Redundant javadoc at RasterPrinterJob.isCancelled
JDK-8337389	Parallel: Remove unnecessary forward declarations in psScavenge.hpp
JDK-8337396	Cleanup usage of ExternalAddress
JDK-8337410	The makefiles should set problemlist and adjust timeout basing on the given VM flags
JDK-8337415	Remove inappropriate Atomic access in FreeListAllocator
JDK-8337416	Fix -Wzero-as-null-pointer-constant warnings in misc. runtime code
JDK-8337418	Fix -Wzero-as-null-pointer-constant warnings in prims code
JDK-8337421	RISC-V: client VM build failure after JDK-8335191
JDK-8337457	Redundant Math.round call in AquaProgressBarUI#getStringPlacement
JDK-8337473	Remove sun/management/jdp tests from ProblemList on Linux-aarch64, MacOSX

Issue ID	Summary
JDK-8337493	[JVMCI] Number of libgraal threads might be too low
JDK-8337501	JFR: Use TimespanUnit
JDK-8337506	Disable "best-fit" mapping on Windows command line
JDK-8337511	Implement JEP 404: Generational Shenandoah (Experimental)
JDK-8337515	JVM_DumpAllStacks is dead code
JDK-8337523	Fix -Wzero-as-null-pointer-constant warnings in jvmci code
JDK-8337536	AArch64: Enable BTI branch protection for runtime part
JDK-8337546	Remove unused GCCause::_adaptive_size_policy
JDK-8337550	Add documentation to TestOutOfMemoryDuringInit.java
JDK-8337563	NMT: rename MEMFLAGS to MemTag
JDK-8337595	Remove empty statements in src/hotspot/share/memory/metaspace
JDK-8337603	Change in behavior with -Djava.locale.useOldISOCodes=true
JDK-8337622	IllegalArgumentException in java.lang.reflect.Field.get
JDK-8337632	AES-GCM Algorithm optimization for x86_64
JDK-8337641	G1: Remove unused G1CollectedHeap::alloc_highest_free_region
JDK-8337642	Remove unused APIs of GCPolicyCounters
JDK-8337654	Relocate uncommon trap stub from SharedRuntime to OptoRuntime

Issue ID	Summary
JDK-8337657	AArch64: No need for acquire fence in safepoint poll during JNI calls
JDK-8337658	ZGC: Move soft reference handling out of the driver loop function
JDK-8337660	C2: basic blocks with only BoxLock nodes are wrongly treated as empty
JDK-8337662	Improve os::print_hex_dump for printing Instructions sections
JDK-8337664	Distrust TLS server certificates issued after Oct 2024 and anchored by Entrust Root CAs
JDK-8337667	sun/tools/jcmd/TestJcmdPIDSubstitution.java is failing on mac and windows
JDK-8337674	ZGC: Consistent style for naming private static constants
JDK-8337676	JFR: Change the label of the throttle setting
JDK-8337679	Memset warning in src/hotspot/share/adlc/adlArena.cpp
JDK-8337681	PNGImageWriter uses much more memory than necessary
JDK-8337683	Fix -Wconversion problem with arrayOop.hpp
JDK-8337702	Use new ForwardExceptionNode to call StubRoutines::forward_exception_entry()
JDK-8337709	Use allocated states for chunking large array processing
JDK-8337712	Wrong javadoc in java.util.Date#toString(): "61" and right parenthesis
JDK-8337713	RISC-V: fix typos in macroAssembler_riscv.cpp
JDK-8337715	Update --release 23 symbol information for JDK 23 build 37

Issue ID	Summary
JDK-8337716	ByteBuffer hashCode implementations are inconsistent
JDK-8337721	G1: Remove unused G1CollectedHeap::young_collection_verify_type
JDK-8337753	Target class of upcall stub may be unloaded
JDK-8337779	test/jdk/jdk/jfr/jvm/TestHiddenWait.java is a bit fragile
JDK-8337780	RISC-V: C2: Change C calling convention for sp to NS
JDK-8337782	Use THROW_NULL instead of THROW_0 in pointer contexts in prims code
JDK-8337783	Use THROW_NULL instead of THROW_0 in pointer contexts in misc runtime code
JDK-8337784	Fix simple -Wzero-as-null-pointer-constant warnings in linux/posix code
JDK-8337785	Fix simple -Wzero-as-null-pointer-constant warnings in x86 code
JDK-8337786	Fix simple -Wzero-as-null-pointer-constant warnings in aarch64 code
JDK-8337787	Fix -Wzero-as-null-pointer-constant warnings when JVMTI feature is disabled
JDK-8337788	RISC-V: Cleanup code in MacroAssembler::reserved_stack_check
JDK-8337795	Type annotation attached to incorrect type during class reading
JDK-8337797	Additional ExternalAddress cleanup
JDK-8337798	JFR: Remove jdk/jfr/api/consumer/recordingstream/TestOnEvent.java from ProblemList.txt
JDK-8337810	ProblemList BasicDirectoryModel/LoaderThreadCount.java on Windows

Issue ID	Summary
JDK-8337815	Relax G1EvacStats atomic operations
JDK-8337819	Update GHA JDKs to 22.0.2
JDK-8337826	Improve logging in OCSPTimeout and SimpleOCSPResponder to help diagnose JDK-8309754
JDK-8337828	CDS: Trim down minimum GC region alignment
JDK-8337832	Optimize datetime toString
JDK-8337839	Make a few fields in MergeCollation static
JDK-8337840	Remove redundant null check in ObjectOutputStream.writeProxyDesc
JDK-8337851	Some tests have name which confuse jtreg
JDK-8337876	[IR Framework] Add support for IR tests with @Stable
JDK-8337886	java/awt/Frame/MaximizeUndecoratedTest.java fails in OEL due to a slight color difference
JDK-8337887	[JVMCI] Clarify jdk.vm.ci.code.Architecture.getName javadoc
JDK-8337938	ZUtils::alloc_aligned allocates without reporting to NMT
JDK-8337939	ZGC: Make assertions and checks less convoluted and explicit
JDK-8337951	Test sun/security/validator/samedn.sh CertificateNotYetValidException: NotBefore validation
JDK-8337958	Out-of-bounds array access in secondary_super_cache
JDK-8337968	Problem list compiler/vectorapi/VectorRebracket128Test.java

Issue ID	Summary
JDK-8337971	Problem list several jvmci tests on linux-riscv64 until JDK-8331704 is fixed
JDK-8337975	[BACKOUT] Native memory leak when not recording any events
JDK-8337976	Insufficient error recovery in parser for switch inside class body
JDK-8337980	Javac allows invocation of an inherited instance method from a static method
JDK-8337981	ShenandoahHeap::is_in should check for alive regions
JDK-8337982	Remove dead undef asrtn
JDK-8337987	Relocate jfr and throw_exception stubs from StubGenerator to SharedRuntime
JDK-8337994	[REDO] Native memory leak when not recording any events
JDK-8337998	CompletionFailure in getEnclosingType attaching type annotations
JDK-8338007	[JVMCI] ResolvedJavaMethod.reprofile can crash ciMethodData
JDK-8338010	WB_IsFrameDeoptimized miss ResourceMark
JDK-8338011	CDS archived heap object support for 64-bit Windows
JDK-8338014	Improve usage of @jvms tags in class file API
JDK-8338015	Fix "Java Java" typo in package info file of java.lang.classfile
JDK-8338019	Fix simple -Wzero-as-null-pointer-constant warnings in riscv code
JDK-8338021	Support new unsigned and saturating vector operators in VectorAPI

Issue ID	Summary
JDK-8338023	Support two vector selectFrom API
JDK-8338036	Serial: Remove Generation::update_counters
JDK-8338041	Keyboard Navigation of JTable, Ctrl Shift RIGHT/LEFT doesn't follow native action in GTK L&F
JDK-8338058	map_or_reserve_memory_aligned Windows enhance remap assertion
JDK-8338060	jdk/internal/util/ReferencedKeyTest should be more robust
JDK-8338062	JFR: Remove TestStartDuration.java and TestStartName.java from ProblemList.txt
JDK-8338064	Give better error for ConcurrentHashMap corruption
JDK-8338100	C2: assert(!in_loop → is_member(get_loop(lca))) failed: control must not be back in the loop
JDK-8338101	remove old remap assertion in map_or_reserve_memory_aligned after JDK-8338058
JDK-8338103	Stabilize and open source a Swing OGL ButtonResizeTest
JDK-8338108	Give better error message in configure if a full XCode is missing
JDK-8338109	java/awt/Mouse/EnterExitEvents/ResizingFrameTest.java duplicate in ProblemList
JDK-8338110	Exclude Fingerprinter::do_type from ubsan checks
JDK-8338112	Test testlibrary_tests/ir_framework/tests/TestPrivilegedMode.java fails with release build

Issue ID	Summary
JDK-8338123	Linker crash when building a downcall handle with many arguments in x64
JDK-8338124	C2 SuperWord: MulAddS2I input permutation still partially broken after JDK-8333840
JDK-8338126	C2 SuperWord: VectorCastF2HF / vcvtps2ph produces wrong results for vector length 2
JDK-8338133	Cleanup direct use of new HtmlTree
JDK-8338136	Hotspot should support multiple large page sizes on Windows
JDK-8338139	{ClassLoader,Memory}MXBean::isVerbose methods are inconsistent with their setVerbose methods
JDK-8338142	(dc) DatagramChannellImpl.blockingReceive can use untimed-park when no timeout set
JDK-8338146	Improve Exchanger performance with VirtualThreads
JDK-8338153	java/awt/Checkbox/CheckboxCheckerScalingTest.java test failed on linux machine
JDK-8338154	Fix -Wzero-as-null-pointer-constant warnings in gtest framework
JDK-8338155	Fix -Wzero-as-null-pointer-constant warnings involving PTHREAD_MUTEX_INITIALIZER
JDK-8338156	Fix -Wzero-as-null-pointer-constant warnings in jvmciCompilerToVM.cpp
JDK-8338158	Cleanup ShouldNotXXX uses in machnode.cpp
JDK-8338160	Fix -Wzero-as-null-pointer-constant warnings in management.cpp

Issue ID	Summary
JDK-8338190	TOC vertical offsets not updated when document size changes
JDK-8338202	Shenandoah: Improve handshake closure labels
JDK-8338236	Compile error in cgroup code on Linux when using clang
JDK-8338248	PartialArrayStateAllocator::Impl leaks Arena array
JDK-8338257	UTF8 lengths should be size_t not int
JDK-8338280	Parallel: Inline ParallelCompactData::verify_clear
JDK-8338281	jshell does not run shutdown hooks
JDK-8338286	GHA: Demote x86_32 to hotspot build only
JDK-8338288	Compiler Implementation for Flexible Constructor Bodies (Third Preview)
JDK-8338290	Xcode project generator for hotspot
JDK-8338301	Error recovery and reporting should be improved for erroneous implicitly declared classes
JDK-8338304	clang on Linux - check for lld presence after JDK-8333189
JDK-8338314	JFR: Split JFRCheckpoint VM operation
JDK-8338315	G1: G1CardTableEntryClosure::do_card_ptr remove unused parameter worker_id
JDK-8338330	Fix -Wzero-as-null-pointer-constant warnings from THROW_XXX_0
JDK-8338331	Fix -Wzero-as-null-pointer-constant warnings from CHECK_0 in jni.cpp

Issue ID	Summary
JDK-8338333	Add jls links to javax.lang.model.element.Modifier
JDK-8338344	Test TestPrivilegedMode.java intermittent fails java.lang.NoClassDefFoundError: jdk/test/lib/Platform
JDK-8338365	[PPC64, s390] Out-of-bounds array access in secondary_super_cache
JDK-8338379	Accesses to class init state should be properly synchronized
JDK-8338380	Update TLSCommon/interop/AbstractServer to specify an interface to listen for connections
JDK-8338383	Implement JEP 491: Synchronize Virtual Threads without Pinning
JDK-8338389	[JFR] Long strings should be added to the string pool
JDK-8338393	Parallel: Remove unused ParallelCompactData::clear_range
JDK-8338395	Add test coverage for instantiating NativePRNG with SecureRandomParameters
JDK-8338398	Trivially fix grammar and typos
JDK-8338402	GHA: some of bundles may not get removed
JDK-8338404	Cross-compilation to different endianness fails after JDK-8318913
JDK-8338405	JFR: Use FILE type for dcmts
JDK-8338406	BytecodeHelpers using wrong bootstrap method descriptor for condy
JDK-8338409	Use record to simplify code
JDK-8338411	Implement JEP 486: Permanently Disable the Security Manager

Issue ID	Summary
JDK-8338417	Explicitly pin a virtual thread before acquiring the JFR string pool monitor
JDK-8338426	Test java/nio/channels/Selector/WakeupNow.java failed
JDK-8338440	Parallel: Improve fragmentation mitigation in Full GC
JDK-8338442	AArch64: Clean up IndOffXX type and let legitimize_address() fix out-of-range operands
JDK-8338444	Shenandoah: Remove ShenandoahHumongousThreshold tunable
JDK-8338445	jdk.internal.loader.URLClassPath may leak JarFile instance when dealing with unexpected Class-Path entry in manifest
JDK-8338447	Remove InstanceKlass::_is_marked_dependent
JDK-8338449	ubsan: division by zero in sharedRuntimeTrans.cpp
JDK-8338452	(dc) DatagramChannelImpl.blockingReceive with timeout may block indefinitely if all datagrams blocked by SecurityManager
JDK-8338469	com/sun/jdi/DataDumpTest.java failed with Not a debuggee, or not listening for debugger to attach
JDK-8338471	Assert deleted methods not returned by CallInfo
JDK-8338482	com/sun/jdi/ThreadMemoryLeakTest.java requires that compressed oops are enabled
JDK-8338488	Add screen capture for failure case
JDK-8338489	Typo in MemorySegment doc
JDK-8338490	Serial: Move Generation::print_on to subclasses

Issue ID	Summary
JDK-8338495	Revert "8336655: java/net/httpclient/DigestEchoClient.java IOException: HTTP/1.1 header parser received no bytes"
JDK-8338512	JFR: Revert changes to TestCodeSweeper
JDK-8338525	Leading and trailing code blocks by indentation
JDK-8338526	Don't store abstract and interface Classes in class metaspace
JDK-8338530	CDS warning Skipping java/lang/invoke/BoundMethodHandle\$Species_LLLL
JDK-8338532	Speed up the ClassFile API MethodTypeDesc#ofDescriptor
JDK-8338536	Permanently disable remote code downloading in JNDI
JDK-8338538	[JVMCI] Allow HotSpotJVMCIRuntime#getJObjectValue to be called by a HotSpot CompileBroker compiler thread
JDK-8338539	New Object to ObjectMonitor mapping: riscv64 implementation
JDK-8338543	ClassBuilder withMethod builders should cache the method type symbol
JDK-8338544	Dedicated Array class descriptor implementation
JDK-8338545	Functional interface implementations for common pre-boot ClassFile operations
JDK-8338546	Speed up ConstantPoolBuilder::classEntry(ClassDesc)
JDK-8338550	Do libubsan1 installation in test container only if requested
JDK-8338564	Remove obsolete AbstractNamedEntry::equals method
JDK-8338565	Test crashed: assert(is_path_empty()) failed: invariant

Issue ID	Summary
JDK-8338566	Lazy creation of exception instances is not thread safe
JDK-8338569	HTTP/1.1 CleanupTrigger may be triggered after the next exchange started
JDK-8338570	sun/font/HBShaper - mismatch in return type of FFM upcall function description and native invocation
JDK-8338571	[TestBug] DefaultCloseOperation.java test not working as expected wrt instruction after JDK-8325851 fix
JDK-8338583	NMT: Malloc overhead is calculated incorrectly
JDK-8338587	Internal XOF Methods for SHAKE128 and SHAKE256
JDK-8338591	Improve performance of MemorySegment::copy
JDK-8338595	Add more linesize for MIME decoder in macro bench test Base64Decode
JDK-8338596	Clarify handling of restricted and caller-sensitive methods
JDK-8338603	DiagnosticCommandMBean operations should standardize types for parameters
JDK-8338611	java.lang.module specification wording not aligned with JEP 261
JDK-8338623	StackCounter adding extraneous slots for receiver invoke instructions
JDK-8338626	ClassLoaderExt::process_jar_manifest() should allow / separator on Windows
JDK-8338630	Test java/nio/channels/DatagramChannel/SendReceiveMaxSize.java timeout
JDK-8338658	New Object to ObjectMonitor mapping: s390x implementation
JDK-8338661	StackMapTable is invalid if frames appear in dead code

Issue ID	Summary
JDK-8338662	Shenandoah: Remove excessive ShenandoahVerifier::verify_during_evacuation
JDK-8338668	Test javax/swing/JFileChooser/8080628/bug8080628.java doesn't test for GTK L&F
JDK-8338677	Improve startup of memory access var handles by simplifying combinator chains
JDK-8338678	Erroneous parameterized type represented as <any>
JDK-8338686	App classpath mismatch if a jar from the Class-Path attribute is on the classpath
JDK-8338688	Shenandoah: Avoid calling java_lang_Class accessors in asserts/verifier
JDK-8338690	CompactNumberInstance.format incorrectly formats some numbers (few vs many)
JDK-8338693	assert(Atomic::add(&ik→_shared_class_load_count, 1) == 1) failed: shared class loaded more than once
JDK-8338694	x86_64 intrinsic for tanh using libm
JDK-8338696	(fs) BasicFileAttributes.creationTime() falls back to epoch if birth time is unavailable (Linux)
JDK-8338700	AttributeMapper type parameter should be bounded by Attribute
JDK-8338708	Don't create/destroy debug agent cmdQueueLock for each connection
JDK-8338714	vmTestbase/nsk/jdb/kill/kill001/kill001.java fails with JTREG_TEST_THREAD_FACTORY=Virtual

Issue ID	Summary
JDK-8338716	Re-visit "interrupt handling" in <code>jdk.internal.loader.Resource</code>
JDK-8338727	RISC-V: Avoid synthetic data dependency in <code>nmethod</code> barrier on Ztso
JDK-8338728	Misc issues in memory layout javadoc
JDK-8338729	Retire the test <code>jdk/java/util/zip/TestZipError.java</code>
JDK-8338731	<code>MemoryLayout::offsetHandle</code> can return a negative offset
JDK-8338740	<code>java/net/httpclient/HttpsTunnelAuthTest.java</code> fails with <code>java.io.IOException: HTTP/1.1 header parser received no bytes</code>
JDK-8338745	Intrinsify <code>Continuation.pin()</code> and <code>Continuation.unpin()</code>
JDK-8338747	<code>hasIncubatorModules</code> needs to be generated when module resolution required at startup
JDK-8338751	<code>ConfigureNotify</code> behavior has changed in KWin 6.2
JDK-8338759	Add extra diagnostic to <code>java/net/InetAddress/ptr/Lookup.java</code>
JDK-8338760	Adjust the comment after <code>UseObjectMonitorTable</code>
JDK-8338765	<code>ScheduledThreadPoolExecutor</code> struggles with extremely long delays
JDK-8338768	Introduce runtime lookup to check for static builds
JDK-8338785	The <code>java.awt.datatransfer.SystemFlavorMap#FLAVOR_MAP_KEY</code> field is not used
JDK-8338810	PPC, s390x: <code>LightweightSynchronizer::exit</code> asserts, missing lock
JDK-8338814	[PPC64] Unify interface of <code>cmpxchg</code> for different types

Issue ID	Summary
JDK-8338817	Wrong indent in API docs for <code>java.lang.management.ManagementFactory</code>
JDK-8338819	JFR: Internal events causes crash when no other events are in use
JDK-8338834	Remove unused import declarations in <code>java.compiler</code>
JDK-8338844	C2: remove useless code in <code>PhaseIdealLoop::place_outside_loop()</code> after 8335709
JDK-8338851	Hoist <code>os::Posix::realpath()</code> to <code>os::realpath()</code> and implement on Windows
JDK-8338856	[BACKOUT] JDK-8337828: CDS: Trim down minimum GC region alignment
JDK-8338882	Clarify matching order of <code>MessageFormat</code> subformat factory styles
JDK-8338883	Show warning when <code>CreateCoredumpOnCrash</code> set, but core dump will not happen
JDK-8338884	<code>java/nio/file/attribute/BasicFileAttributeView/CreationTime.java#tmp</code> fails on <code>alinux3</code>
JDK-8338888	<code>SystemDictionary::class_name_symbol</code> has incorrect length check
JDK-8338890	Add monitoring/management interface for the virtual thread scheduler
JDK-8338891	<code>HotSpotDiagnosticsMXBean</code> missing <code>@since</code> tag
JDK-8338894	Deprecate <code>jhsdb debugd</code> for removal
JDK-8338897	Small startup regression remains after JDK-8309622 and JDK-8331932
JDK-8338902	CDS flags are reported with wrong flag category

Issue ID	Summary
JDK-8338906	Avoid passing EnumDescs and extra classes to type switch methods that don't use them
JDK-8338912	CDS: Segmented roots array
JDK-8338916	Build warnings about overriding recipe for jvm-ldflags.txt
JDK-8338918	Remove non translated file name from WinResources resource bundle
JDK-8338924	C1: assert(0 <= i && i < _len) failed: illegal index 5 for length 5
JDK-8338925	ProblemList runtime/interpreter/LastJsrTest.java on linux-all
JDK-8338928	Update SwingSet2 "About" image to reference openjdk.org
JDK-8338929	Make Metaspace::deallocate space-aware
JDK-8338930	StringConcatFactory hardCoded string concatenation strategy
JDK-8338934	vmTestbase/nsk/jvmti/*Field*Watch/TestDescription.java tests timeout intermittently
JDK-8338936	StringConcatFactory optimize the construction of MethodType and MethodTypeDesc
JDK-8338937	Optimize the string concatenation of ClassDesc
JDK-8338938	The result of the combine method of SettingsControl is not used
JDK-8338939	Simplify processing of hidden class names
JDK-8338947	Deprecate the UseLinuxPosixThreadCPUClocks flag and remove it in a future release

Issue ID	Summary
JDK-8338967	Improve performance for MemorySegment::fill
JDK-8338971	IGV: Add incrementally inlined method name to phase name
JDK-8338979	Avoid bootstrapped switches in the classfile API
JDK-8338981	Access to private classes should be permitted inside the permits clause of the enclosing top-level class
JDK-8338995	New Object to ObjectMonitor mapping: PPC64 implementation
JDK-8339017	Make a couple of fields in DoubleByte static
JDK-8339020	Remove unused HeapShared::calculate_oopmap
JDK-8339030	frame::print_value_on(outputStream* st, JavaThread *thread) doesn't need thread argument
JDK-8339063	[aarch64] Skip verify_sve_vector_length after native calls if SVE supports 128 bits VL only
JDK-8339112	Move JVM Klass flags out of AccessFlags
JDK-8339115	Rename TypeKind enum constants to follow code style
JDK-8339120	Use more fine-granular gcc unused warnings
JDK-8339126	JNI exception pending in Inflater.c
JDK-8339128	Cannot resolve user specified tool properly after JDK-8338304
JDK-8339131	Remove rarely-used accessor methods from Opcode
JDK-8339132	Make DirectCodeBuilder write through without allocating instruction objects

Issue ID	Summary
JDK-8339134	Callers of Exceptions::fthrow should ensure exception message lengths avoid the INT_MAX limits of os::vsprintf
JDK-8339148	Make os::Linux::active_processor_count() public
JDK-8339149	jfr_flush_event_writer - return value type mismatch
JDK-8339154	Cleanups and JUnit conversion of test/jdk/java/util/zip/Available.java
JDK-8339156	Use more fine-granular clang unused warnings
JDK-8339159	api/java_rmi/Naming/Rebind.html crashes with SEGV from UTF8::quoted_ascii_length call
JDK-8339160	[BACKOUT] JDK-8338440 Parallel: Improve fragmentation mitigation in Full GC
JDK-8339161	ZGC: Remove unused remembered sets
JDK-8339162	[REDO] JDK-8338440 Parallel: Improve fragmentation mitigation in Full GC
JDK-8339163	ZGC: Race in clearing of remembered sets
JDK-8339166	java/lang/String/concat/HiddenClassUnloading.java fails on AIX and Linux ppc64le after JDK-8336856
JDK-8339167	Remove AbstractPoolEntry.PrimitiveEntry to reduce boxing overheads
JDK-8339168	Optimize ClassFile Util slotSize
JDK-8339169	Remove NaiveHuffman coder
JDK-8339175	ProblemList runtime/interpreter/LastJsrTest.java on all platforms with Xcomp

Issue ID	Summary
JDK-8339180	Enhanced Building of Processes: Follow-on Issue
JDK-8339190	Parameter arrays that are capped during annotation processing report incorrect length
JDK-8339191	JFR: Bulk read support for ChunkInputStream
JDK-8339192	Native annotation parsing code of deprecated annotations causes crash
JDK-8339196	Optimize BufWriterImpl#writeU1/U2/Int/Long
JDK-8339198	Remove tag field from AbstractPoolEntry
JDK-8339205	Optimize StackMapGenerator
JDK-8339214	Remove misleading CodeBuilder.loadConstant(Opcodce, ConstantDesc)
JDK-8339217	Optimize ClassFile API loadConstant
JDK-8339220	[s390x] TestIfMinMax.java failure
JDK-8339233	Test javax/swing/JButton/SwingButtonResizeTestWithOpenGL.java#id failed: Button renderings are different after window resize
JDK-8339235	Fix indentation in build system
JDK-8339237	RISC-V: Builds fail after JDK-8339120
JDK-8339242	Fix overflow issues in AdlArena
JDK-8339248	RISC-V: Remove li64 macro assembler routine and related code
JDK-8339260	Move rarely used constants out of ClassFile

Issue ID	Summary
JDK-8339261	Logs truncated in test javax/net/ssl/DTLS/DTLSRehandshakeTest.java
JDK-8339271	giflib attribution correction
JDK-8339285	Test fails with assert(depth < max_critical_stack_depth) failed: can't have more than 10 critical frames
JDK-8339288	Improve diagnostic logging runtime/cds/DeterministicDump.java
JDK-8339289	Enhance Attach API to support arbitrary length arguments - Windows
JDK-8339290	Optimize ClassFile Utf8EntryImpl#writeTo
JDK-8339296	Record deconstruction pattern in switch fails to compile
JDK-8339298	Remove unused function declaration poll_for_safepoint
JDK-8339299	C1 will miss type profile when inline final method
JDK-8339300	CollectorPolicy.young_scaled_initial_ergo_vm gtest fails on ppc64 based platforms
JDK-8339303	C2: dead node after failing to match cloned address expression
JDK-8339307	jhsdb jstack could not trace FFM upcall frame
JDK-8339309	unused-variable warnings happen in libfontmanager
JDK-8339316	Test runtime/exceptionMsgs/NoClassDefFoundError/NoClassDefFoundErrorTest.java fails after JDK-8338257
JDK-8339317	Optimize ClassFile writeBuffer

Issue ID	Summary
JDK-8339319	ProblemList runtime/exceptionMsgs/NoClassDefFoundError/NoClassDefFoundErrorTest.java
JDK-8339320	Optimize ClassFile Utf8EntryImpl#inflate
JDK-8339329	ConstantPoolBuilder#constantValueEntry method doc typo and clarifications
JDK-8339336	Fix build system whitespace to adhere to coding conventions
JDK-8339341	SurfaceManager cacheMap retains strong references
JDK-8339342	FieldAllocationCount is mostly unused
JDK-8339347	keytool -importpass insists prompting the user even if there is no terminal
JDK-8339351	Remove duplicate line in FileMapHeader::print
JDK-8339359	RISC-V: Use auipc explicitly in far_jump and far_call macro assembler routines
JDK-8339364	AIX build fails: various unused variable and function warnings
JDK-8339366	[jittester] Make it possible to generate tests without execution
JDK-8339368	Switch targets are not inflated in CodeModel if no StackMap
JDK-8339369	G1: TestVerificationInConcurrentCycle.java fails with "Missing rem set entry" when using "-XX:G1RSetUpdatingPauseTimePercent=0 -XX:G1UpdateBufferSize=2"
JDK-8339371	jlink.log warning when building after JDK-8338404
JDK-8339384	Unintentional IOException in jdk.jdi module when JDWP end of stream occurs

Issue ID	Summary
JDK-8339386	Assertion on AIX - original PC must be in the main code section of the compiled method
JDK-8339387	ZGC: Synchronize medium page allocation
JDK-8339399	ZGC: Remove unnecessary page reset when splitting pages
JDK-8339401	Optimize ClassFile load and store instructions
JDK-8339403	sun.security.ssl.StatusResponseManager.get swallows interrupt status
JDK-8339411	[PPC64] cmpxchgw/h/b doesn't handle external Label
JDK-8339416	[s390x] Provide implementation for resolve_global_object
JDK-8339419	[s390x] Problemlist compiler/c2/irTests/TestIfMinMax.java
JDK-8339460	CDS error when module is located in a directory with space in the name
JDK-8339466	Enumerate shared stubs and define static fields and names via declarations
JDK-8339475	Clean up return code handling for pthread calls in library coding
JDK-8339480	Build static-jdk image with a statically linked launcher
JDK-8339486	JFR: Modernize
JDK-8339487	ProcessHandleImpl os_getChildren sysctl call - retry in case of ENOMEM and enhance exception message
JDK-8339488	Extended NPE message doesn't handle CONSTANT_Dynamic
JDK-8339492	StackMapDecoder::writeFrames makes lots of allocations

Issue ID	Summary
JDK-8339507	Test generation tool and gtest for testing APX encoding of extended gpr instructions
JDK-8339519	Remove size field from instructions
JDK-8339524	Clean up a few ExtendedRobot tests
JDK-8339531	Improve performance of MemorySegment::mismatch
JDK-8339535	JVM crashes with -Xshare:dump -XX:+SegmentedCodeCache
JDK-8339538	Wrong timeout computations in DnsClient
JDK-8339540	Unify include requirements for PlatformMonitor/Mutex constructors/destructors
JDK-8339541	CSS rule is not specific enough
JDK-8339542	compiler/codecache/CheckSegmentedCodeCache.java fails
JDK-8339548	GHA: RISC-V: Use Debian snapshot archive for bootstrap
JDK-8339560	Unaddressed comments during code review of JDK-8337664
JDK-8339570	Add Tidy build support for JDK tests
JDK-8339573	Update CodeCacheSegmentSize and CodeEntryAlignment for ARM
JDK-8339574	Behavior of File.is{Directory,File,Hidden} is not documented with respect to symlinks
JDK-8339575	DumpingWithJavaAgent.java failed with missing expected output
JDK-8339576	Speed up raw bytecode processing in ClassFile API

Issue ID	Summary
JDK-8339579	ZGC: Race results in only one of two remembered sets being cleared
JDK-8339587	runtime/reflect/ReflectOutOfMemoryError.java fails with "bootstrap method initialization exception"
JDK-8339591	Mark jdk/jshell/ExceptionMessageTest.java intermittent
JDK-8339592	Simplify and remove unused code in ObjectMethods.<clinit>
JDK-8339619	ProblemList runtime/cds/appcnds/jvmti/dumpingWithAgent/DumpingWithJavaAgent.java
JDK-8339627	Cleanup Unsafe.setMemory intrinsic code
JDK-8339631	Fix block @jls and @jvms tags
JDK-8339635	StringConcatFactory optimization for CompactStrings off
JDK-8339637	(tz) Update Timezone Data to 2024b
JDK-8339638	Update vmTestbase/nsk/jvmti/*Field*Watch tests to use virtual thread factory
JDK-8339639	Opensource few AWT PopupMenu tests
JDK-8339640	Reduce construction overheads in StringConcatFactory\$InlineHiddenClassStrategy
JDK-8339642	Reduce overheads in InvokerBytecodeGenerator
JDK-8339644	Improve parsing of Day/Month in tzdata rules
JDK-8339648	ZGC: Division by zero in rule_major_allocation_rate

Issue ID	Summary
JDK-8339651	ShenandoahPacer::setup_for_mark, ShenandoahPacer::setup_for_updaterefs and ShenandoahPacer::setup_for_evac runtime error: division by zero
JDK-8339661	ZGC: Move some page resets and verification to callsites
JDK-8339677	[vectorapi] YYYXXXVector::withLaneHelper and laneHelper should use Double::doubleToRawLongBits/Float::floatToRawIntBits
JDK-8339678	Update runtime/conddy tests to be executed with VM flags
JDK-8339683	Simplify class data generation in InvokerBytecodeGenerator
JDK-8339684	ResizeObserver callback interrupts smooth scrolling on Chrome
JDK-8339686	java/foreign/TestMappedHandshake.java fails with assert(depth < max_critical_stack_depth) failed: can't have more than 10 critical frames
JDK-8339687	Rearrange reachabilityFence(s) in jdk.test.lib.util.ForceGC
JDK-8339694	ciTypeFlow does not correctly handle unresolved constant dynamic of array type
JDK-8339696	Clarify modeling scope of javax.lang.model.element
JDK-8339698	x86 unused andw/orw/xorw/addw encoding could be removed
JDK-8339699	Optimize DataOutputStream writeUTF
JDK-8339703	Problem list serviceability/sa/TestJhsdbJstackUpcall.java for generational ZGC
JDK-8339710	Avoid initializing AccessFlag related classes in write-only cases
JDK-8339711	ZipFile.Source.initCEN needlessly reads END header

Issue ID	Summary
JDK-8339714	Delete tedious bool type define
JDK-8339725	Concurrent GC crashed due to GetMethodDeclaringClass
JDK-8339727	Open source several AWT focus tests - series 1
JDK-8339728	[Accessibility,Windows,JAWS] Bug in the getKeyChar method of the AccessBridge class
JDK-8339730	Windows regression after removing ObjectMonitor Responsible
JDK-8339731	java.desktop/share/classes/javafx/swing/text/html/default.css typo in margin settings
JDK-8339733	C2: some nodes can have incorrect control after do_range_check()
JDK-8339735	Remove references to Applet in core-libs/security APIs
JDK-8339738	RISC-V: Vectorize crc32 intrinsic
JDK-8339741	RISC-V: C ABI breakage for integer on stack
JDK-8339742	Refactor ClassFileImpl to allow loading Option classes lazily
JDK-8339769	Incorrect error message during startup if working directory does not exist
JDK-8339771	RISC-V: Reduce icache flushes
JDK-8339780	TestByteBuffer fails on AIX after 8339285
JDK-8339781	Better use of Javadoc tags in javafx.lang.model
JDK-8339783	Implement JEP 479: Remove the Windows 32-bit x86 Port

Issue ID	Summary
JDK-8339787	Add some additional diagnostic output to <code>java/net/ipv6tests/UdpTest.java</code>
JDK-8339789	Use index and definition tags in <code>AnnotatedElement</code>
JDK-8339790	Support Intel APX <code>setzucc</code> instruction
JDK-8339793	Fix incorrect APX feature enabling with <code>-XX:-UseAPX</code>
JDK-8339794	Open source closed choice tests #1
JDK-8339799	Reduce work done in <code>j.l.invoke</code> bytecode generators
JDK-8339800	Prefer <code>invokeBasic</code> in <code>BootstrapMethodInvokers</code>
JDK-8339801	Add better test failure diagnostics to <code>vmTestbase/nsk/jdi/EventManager/threadStartRequests/thrstartreq002</code>
JDK-8339803	Acknowledge case insensitive unambiguous keywords in <code>tzdata</code> files
JDK-8339810	Clean up the code in <code>sun.tools.jar.Main</code> to properly close resources and use <code>ZipFile</code> during extract
JDK-8339834	Replace usages of <code>-mx</code> and <code>-ms</code> in some tests
JDK-8339835	Replace usages of <code>-mx</code> and <code>-ms</code> in some client-libs tests
JDK-8339836	Open source several AWT Mouse tests - Batch 1
JDK-8339837	Remove unused <code>BootstrapMethodsInvokers.isLambdaMetafactoryCondyBSM</code>
JDK-8339842	Open source several AWT focus tests - series 2
JDK-8339845	Update <code>color.org</code> and <code>wapforum.org</code> links to use HTTPS instead of HTTP

Issue ID	Summary
JDK-8339847	Broken link to the dieharder distribution website in SplittableRandom
JDK-8339849	Enumerate opto and C1 stubs, generate enums, names, fields and generator calls
JDK-8339850	Restore the interrupt status in FileSystemPreferences.lockFile()
JDK-8339852	Fix typos in java.compiler documentation
JDK-8339871	serviceability/sa/TestDebugInfoDecode.java should be driver
JDK-8339874	Avoid duplicate checking of trailing slash in ZipFile.getZipEntry
JDK-8339876	Move constant symbol caches to Utf8EntryImpl
JDK-8339879	Open some dialog awt tests
JDK-8339883	Open source several AWT/2D related tests
JDK-8339892	Several security shell tests don't set TESTJAVA_OPTS
JDK-8339895	Open source several AWT focus tests - series 3
JDK-8339902	Open source couple TextField related tests
JDK-8339906	Open source several AWT focus tests - series 4
JDK-8339916	AIOOBE due to Math.abs(Integer.MIN_VALUE) in tests
JDK-8339918	Remove checks for outdated -t -tm -Xfuture -checksource -cs -noasyncgc options from the launcher
JDK-8339927	Man page update for deprecating jhsdb debugd for removal

Issue ID	Summary
JDK-8339934	Simplify Math.scalb(double) method
JDK-8339935	Open source several AWT focus tests - series 5
JDK-8339939	[JVMCI] Don't compress abstract and interface Classes
JDK-8339943	Frame not disposed in java/awt/dnd/DropActionChangeTest.java
JDK-8339954	Print JVMCI names with the Compiler.{perfmap,codelist,CodeHeap_Analytics} diagnostic commands
JDK-8339960	GenShen: Fix inconsistencies in generational Shenandoah behavior
JDK-8339962	Open source AWT TextField tests - Set1
JDK-8339972	Make a few fields in SortingFocusTraversalPolicy static
JDK-8339974	Graphics2D.drawString doesn't always work with Font derived from AffineTransform
JDK-8339975	Open some dialog awt tests 2
JDK-8339979	VirtualThreadSchedulerMXBeanTest.testReduceParallelism fails intermittently
JDK-8339980	[s390x] ProblemList jdk/java/util/zip/CloseInflaterDeflaterTest.java
JDK-8339982	Open source several AWT Mouse tests - Batch 2
JDK-8339983	[s390x] secondary_super_cache does not scale well: C1 and interpreter
JDK-8339984	Open source AWT MenuItem related tests
JDK-8339992	RISC-V: some minor improvements of base64_vector_decode_round

Issue ID	Summary
JDK-8339995	Open source several AWT focus tests - series 6
JDK-8340007	Refactor KeyEvent/FunctionKeyTest.java
JDK-8340008	KeyEvent/KeyTyped/Numpad1KeyTyped.java has 15 seconds timeout
JDK-8340009	Improve the output from assert_different_registers
JDK-8340010	Fix vectorization tests with compact headers
JDK-8340011	Simplify jdk.internal.classfile.impl.EntryMap
JDK-8340012	[C2] assert(KlassEncodingMetaspaceMax > pd) failed: change encoding max if new encoding after 8338526
JDK-8340015	Open source several AWT focus tests - series 7
JDK-8340024	In ClassReader, extract a constant for the superclass supertype_index
JDK-8340073	Support "%z" time zone abbreviation format in TZ files
JDK-8340075	Autoconf bundle cannot run on read-only filesystem
JDK-8340077	Open source few Checkbox tests - Set2
JDK-8340078	Open source several 2D tests
JDK-8340079	Modify rearrange/selectFrom Vector API methods to perform wrapIndexes instead of checkIndexes
JDK-8340081	Test java/foreign/TestLinker.java failed failed: missing permission java.lang.foreign.native.threshold.power.fill
JDK-8340082	Use inline return tag in java.base

Issue ID	Summary
JDK-8340084	Open source AWT Frame related tests
JDK-8340089	Simplify SegmentBulkOperations::powerOfProperty
JDK-8340092	[Linux] containers/systemd/SystemdMemoryAwarenessTest.java failing on some systems
JDK-8340102	Move assert-only loop in OopMapSort::sort under debug macro
JDK-8340103	Add internal set_flag function to VMATree
JDK-8340105	Expose BitMap::print_on in release builds
JDK-8340109	Ubsan: ciEnv.cpp:1660:65: runtime error: member call on null pointer of type 'struct CompileTask'
JDK-8340113	Remove JULONG as a Diagnostic Command argument type (jcmd JFR.view)
JDK-8340114	Remove outdated SelectVersion() function from the launcher and update the code comments explaining the code flow
JDK-8340116	test/jdk/sun/security/tools/jarsigner/PreserveRawManifestEntryAndDigest.java can fail due to regex
JDK-8340119	Remove oopDesc::size_might_change()
JDK-8340120	Remove redundant code in SegmentBulkOperations::mismatch
JDK-8340131	Refactor internal makeHiddenClassDefiner to take option mask instead of Set<ClassOption>
JDK-8340132	Remove internal CpException for reading malformed utf8
JDK-8340133	Add concise usage message to the java executable

Issue ID	Summary
JDK-8340140	Open some dialog awt tests 3
JDK-8340141	C1: rework ciMethod::equals following 8338471
JDK-8340143	Open source several Java2D rendering loop tests.
JDK-8340144	C1: remove unused Compilation::_max_spills
JDK-8340145	Problem with generic pattern matching results in internal compiler error
JDK-8340146	ZGC: TestAllocateHeapAt.java should not run with UseLargePages
JDK-8340164	Open source few Component tests - Set1
JDK-8340166	[REDO] CDS: Trim down minimum GC region alignment
JDK-8340171	CDS: Enhance bitmap truncation
JDK-8340173	Open source some Component/Panel/EventQueue tests - Set2
JDK-8340176	Replace usage of -noclassgc with -Xnoclassgc in test/jdk/java/lang/management/MemoryMXBean/LowMemoryTest2.java
JDK-8340177	Malformed system classes loaded by bootloder crash the JVM in product builds
JDK-8340181	Shenandoah: Cleanup ShenandoahRuntime stubs
JDK-8340183	Shenandoah: Incorrect match for clone barrier in is_gc_barrier_node
JDK-8340184	Bug in CompressedKlassPointers::is_in_encodable_range
JDK-8340186	Shenandoah: Missing load_reference_barrier_phantom_narrow match in is_shenandoah_lrb_call

Issue ID	Summary
JDK-8340189	8339531 incorrect for Big Endian platforms
JDK-8340193	Open source several AWT Dialog tests - Batch 1
JDK-8340194	Replace usage of -ms with -Xms in LauncherCommon.gmk make file
JDK-8340200	Misspelled constant <code>AttributesProcessingOption.DROP_UNSTABLE_ATTRIBUTES</code>
JDK-8340203	Link color is hard to distinguish from text color in API documentation
JDK-8340205	Native linker allows MemoryLayout consisting of only PaddingLayout
JDK-8340210	Add positionTestUI() to PassFailJFrame.Builder
JDK-8340212	-Xshare:off -XX:CompressedClassSpaceBaseAddress=0x40001000000 crashes on macos-aarch64
JDK-8340213	jcmm VM.events ignores max argument
JDK-8340214	C2 compilation asserts with "no node with a side effect" in <code>PhaseIdealLoop::try_sink_out_of_loop</code>
JDK-8340228	Open source couple more miscellaneous AWT tests
JDK-8340229	Improve opening sentence of FileInputStream constructor specification
JDK-8340230	Tests crash: <code>assert(is_in_encoding_range k->is_interface() k->is_abstract())</code> failed: sanity
JDK-8340232	Optimize <code>DataInputStream::readUTF</code>
JDK-8340233	Missed <code>ThreadWXEnable</code> in <code>jfrNativeLibraryLoadEvent.cpp</code>

Issue ID	Summary
JDK-8340241	RISC-V: Returns mispredicted
JDK-8340269	[s390x] TestLargeStub.java failure after 8338123
JDK-8340271	Open source several AWT Robot tests
JDK-8340272	C2 SuperWord: JMH benchmark for Reduction vectorization
JDK-8340273	Remove CounterHalfLifeTime
JDK-8340276	Test java/lang/management/ThreadMXBean/Locks.java failed with NullPointerException
JDK-8340279	Open source several AWT Dialog tests - Batch 2
JDK-8340280	Avoid calling MT.invokerType() when creating LambdaForms
JDK-8340306	Add border around instructions in PassFailJFrame
JDK-8340307	Add explanation around MemorySegment:reinterpret regarding arenas
JDK-8340308	PassFailJFrame: Make rows default to number of lines in instructions
JDK-8340311	JPackage app-image exe launches multiple exe's in JDK 22+
JDK-8340313	Crash due to invalid oop in nmethod after C1 patching
JDK-8340323	Test jdk/classfile/OptionsTest.java fails after JDK-8340200
JDK-8340326	Remove references to Applet in core-libs/security tests
JDK-8340327	A common framework to support public key algorithms with standard parameter sets

Issue ID	Summary
JDK-8340329	(fs) Message of NotLinkException thrown by Files.readSymbolicLink does not include file name (win)
JDK-8340332	Open source mixed AWT tests - Set3
JDK-8340334	Update jcmd VM.events max parameter to be INT
JDK-8340336	Open some checkbox awt tests
JDK-8340353	Remove CompressedOops::ptrs_base
JDK-8340354	Open source AWT desktop properties and print related tests
JDK-8340359	Remove javax.naming.Context.APPLET
JDK-8340360	Update -mx to -Xmx in UninstallUIMemoryLeaks test
JDK-8340365	Position the first window of a window list
JDK-8340366	Open source several AWT Dialog tests - Batch 3
JDK-8340367	Opensource few AWT image tests
JDK-8340368	windows-x64-slowdebug build fails after JDK-8319873
JDK-8340383	VM issues warning failure to find kernel32.dll on Windows nanoserver
JDK-8340387	Update OS detection code to recognize Windows Server 2025
JDK-8340389	vmTestbase/gc/gctests/PhantomReference/phantom001/TestDescription.java Test exit code: 97 with -Xcomp UseAVX=3
JDK-8340391	Windows jcmd System.map and System.dump_map tests failing

Issue ID	Summary
JDK-8340392	Handle OopStorage in location decoder
JDK-8340393	Open source closed choice tests #2
JDK-8340398	[JVMCI] Unintuitive behavior of UseJVMCICompiler option
JDK-8340399	Update comment in SourceVersion for language evolution history
JDK-8340400	Shenandoah: Whitebox breakpoint GC requests may cause assertions
JDK-8340404	CharsetProvider specification updates
JDK-8340407	Open source a few more Component related tests
JDK-8340408	Shenandoah: Remove redundant task stats printing code in ShenandoahTaskQueue
JDK-8340411	open source several 2D imaging tests
JDK-8340417	Open source some MenuBar tests - Set1
JDK-8340418	GHA: MacOS AArch64 bundles can be removed prematurely
JDK-8340419	ZGC: Create an UseLargePages adaptation of TestAllocateHeapAt.java
JDK-8340420	ZGC: Should call <code>vm_shutdown_during_initialization</code> if initialization fails
JDK-8340422	ZGC: TestAllocateHeapAt.java should not run with transparent hugepages
JDK-8340426	ZGC: Move defragment out of the allocation path
JDK-8340432	Open source some MenuBar tests - Set2

Issue ID	Summary
JDK-8340433	Open source closed choice tests #3
JDK-8340436	Remove unused CompressedOops::AnyNarrowOopMode
JDK-8340437	Open source few more AWT Frame related tests
JDK-8340438	RISC-V: minor improvement in base64
JDK-8340439	AArch64: Extra entry declaration for assembler test
JDK-8340445	[PPC64] Wrong ConditionRegister used in ppc64.ad: flagsRegCR0 cr1
JDK-8340453	C2: Improve encoding of LoadNKlass for compact headers
JDK-8340454	C2 EA asserts with "previous reducible Phi is no longer reducible before SUT"
JDK-8340456	Reduce overhead of proxying Object methods in ProxyGenerator
JDK-8340458	Open source additional Component tests (part 2)
JDK-8340461	Amend description for logArea
JDK-8340466	Add description for PassFailJFrame constructors
JDK-8340477	Remove JDK1.1 compatible behavior for "EST", "MST", and "HST" time zones
JDK-8340480	Bad copyright notices in changes from JDK-8339902
JDK-8340488	Clarify LocaleServiceProvider deployment on application module path
JDK-8340490	Shenandoah: Optimize ShenandoahPacer
JDK-8340491	Thread stack-base assertion should report which thread has the un-set stack

Issue ID	Summary
JDK-8340494	Open some dialog awt tests 4
JDK-8340524	Remove NarrowPtrStruct
JDK-8340532	C2: assert(is_OuterStripMinedLoop()) failed: invalid node class: IfTrue
JDK-8340537	Typo in javadoc of java.util.jar.JarFile
JDK-8340540	Problemlist DcmdMBeanPermissionsTest.java and SystemDumpMapTest.java
JDK-8340544	Optimize setLocalsFromArg
JDK-8340547	Starting many threads can delay safepoints
JDK-8340552	Harden TzdbZoneRulesCompiler against missing zone names
JDK-8340553	ZipEntry field validation does not take into account the size of a CEN header
JDK-8340554	Improve MessageFormat readObject checks
JDK-8340555	Open source DnD tests - Set4
JDK-8340560	Open Source several AWT/2D font and rendering tests
JDK-8340565	Create separate index page for terms defined by the index tag
JDK-8340568	Incorrect escaping of single quotes when pretty-printing character literals
JDK-8340572	ConcurrentModificationException when sorting ArrayList sublists
JDK-8340573	Remove unused G1ParScanThreadState::_partial_objarray_chunk_size
JDK-8340576	Some JVMCI flags are inconsistent

Issue ID	Summary
JDK-8340580	Characters in Document diagrams not in the middle
JDK-8340585	[JVMCI] compiler/unsafe/UnsafeGetStableArrayElement.java fails with -XX: -UseCompressedClassPointers
JDK-8340586	JdkJfrEvent::get_all_klasses stores non-strong oops in JNI handles
JDK-8340587	Optimize StackMapGenerator\$Frame::checkAssignableTo
JDK-8340590	RISC-V: C2: Small improvement to vector gather load and scatter store
JDK-8340596	Remove dead code from RequiresSetenv function in java.base/unix/native/libjli/java_md.c
JDK-8340605	Open source several AWT PopupMenu tests
JDK-8340620	Fix -Wzero-as-null-pointer-constant warnings for CompressedOops
JDK-8340621	Open source several AWT List tests
JDK-8340623	Remove outdated PROCESSOR_ARCHITECTURE_IA64 from Windows coding
JDK-8340625	Open source additional Component tests (part 3)
JDK-8340639	Open source few more AWT List tests
JDK-8340643	RISC-V: Small refactoring for sub/subw macro-assembler routines
JDK-8340657	[PPC64] SA determines wrong unextendedSP
JDK-8340670	Policy.UNSUPPORTED_EMPTY_COLLECTION.isReadOnly does not return true
JDK-8340679	Misc tests fail assert(!set SafepointSynchronize::is_at_safepoint()) failed: set once or at safepoint

Issue ID	Summary
JDK-8340680	Fix typos in javax.lang.model.SourceVersion
JDK-8340684	Reading from an input stream backed by a closed ZipFile has no test coverage
JDK-8340687	Open source closed frame tests #1
JDK-8340698	JVMTI FRAME_POP event is sometimes missed if NotifyFramePop is called as a method is returning
JDK-8340707	ProblemList applications/ctw/modules/java_base.java due to JDK-8340683
JDK-8340708	Optimize StackMapGenerator::processMethod
JDK-8340710	Optimize DirectClassBuilder::build
JDK-8340713	Open source DnD tests - Set5
JDK-8340717	Remove unused function declarations from java.c/java.h of the launcher
JDK-8340719	Open source AWT List tests
JDK-8340721	Clarify special case handling of unboxedType and getWildcardType
JDK-8340731	Cleanup remaining IA64 references in hotspot code
JDK-8340732	RISC-V: Refactor crc32 scalar version
JDK-8340733	Add scope for relaxing constraint on JavaCalls from CompilerThread
JDK-8340785	Update description of PassFailJFrame and samples
JDK-8340786	Introduce Predicate classes with predicate iterators and visitors for simplified walking

Issue ID	Summary
JDK-8340790	Open source several AWT Dialog tests - Batch 4
JDK-8340792	-XX:+PrintInterpreter: instructions should only be printed if printing all InterpreterCodelets
JDK-8340793	Fix client builds after JDK-8337987
JDK-8340796	Use a consistent order when loading cxq and EntryList
JDK-8340799	Add border inside instruction frame in PassFailJFrame
JDK-8340801	Disable ubsan checks in some awt/2d coding
JDK-8340804	doc/building.md update Xcode instructions to note that full install is required
JDK-8340808	RISC-V: Client build fails after JDK-8339738
JDK-8340809	Open source few more AWT PopupMenu tests
JDK-8340812	LambdaForm customization via MethodHandle::updateForm is not thread safe
JDK-8340815	Add SECURITY.md file
JDK-8340818	Add a new jtreg test root to test the generated documentation
JDK-8340824	C2: Memory for TypeInterfaces not reclaimed by hashcons()
JDK-8340826	Should not send unload notification for scratch classes
JDK-8340831	Simplify simple validation for class definition in MethodHandles.Lookup
JDK-8340838	Clean up MutableCallSite to use explicit release fence instead of AtomicInteger

Issue ID	Summary
JDK-8340843	[PPC64/s390x] Error: ShouldNotReachHere() in TemplateInterpreterGenerator::generate_math_entry after 8338694
JDK-8340851	Open some TextArea awt tests
JDK-8340864	Remove unused lines related to vmClasses
JDK-8340874	Open source some of the AWT Geometry/Button tests
JDK-8340880	RISC-V: add t3-t6 alias into assembler_riscv.hpp
JDK-8340885	Desugar ZipCoder.Comparison
JDK-8340899	Remove wildcard bound in PositionWindows.positionTestWindows
JDK-8340907	Open source closed frame tests # 2
JDK-8340923	The class LogSelection copies uninitialized memory
JDK-8340945	Ubsan: oopStorage.cpp:374:8: runtime error: applying non-zero offset 18446744073709551168 to null pointer
JDK-8340946	Add vmTestbase/gc/memory/Nio/Nio.java and java/nio/Buffer/LimitDirectMemory.java to problem list
JDK-8340956	ProblemList 4 java/nio/channels/DatagramChannel tests on macosx-all
JDK-8340966	Open source few Checkbox and Cursor tests - Set1
JDK-8340967	Open source few Cursor tests - Set2
JDK-8340974	Ambiguous name of jtreg property vm.libgraal.enabled
JDK-8340978	Open source few DnD tests - Set6

Issue ID	Summary
JDK-8340981	Update citations to "Hacker's Delight"
JDK-8340983	Use index and definition tags in Object and Double
JDK-8340985	Open source some Desktop related tests
JDK-8340987	Open some TextArea awt tests 1
JDK-8340988	Update jdk/jfr/event/gc/collection tests to accept "CodeCache GC Threshold" as valid GC reason
JDK-8341000	Open source some of the AWT Window tests
JDK-8341004	Open source AWT FileDialog related tests
JDK-8341006	Optimize StackMapGenerator detect frames
JDK-8341013	Optimize x86/aarch64 MD5 intrinsics by reducing data dependency
JDK-8341015	OopStorage location decoder crashes accessing non-initialized OopStorage
JDK-8341020	Error handler crashes when Metaspace is not fully initialized
JDK-8341024	[test] build/AbsPathsInImage.java fails with OOM when using ubsan-enabled binaries
JDK-8341027	Crash in java/runtime/Unsafe/InternalErrorTest when running with -XX: -UseCompressedClassPointers
JDK-8341028	Do not use lambdas or method refs for verifyConstantPool
JDK-8341037	Use standard layouts in DefaultFrameIconTest.java and MenuCrash.java
JDK-8341052	SHA-512 implementation using SHA-NI

Issue ID	Summary
JDK-8341053	Two CDS tests fail again with -UseCompressedOops and UseSerialGC/UseParallelGC
JDK-8341055	Open some TextArea awt tests 2
JDK-8341057	Add 2 SSL.com TLS roots
JDK-8341059	Change Entrust TLS distrust date to November 12, 2024
JDK-8341060	Cleanup statics in HeapDumper
JDK-8341064	Define anchor point and index term for "wrapper classes"
JDK-8341068	[s390x] intrinsics for divideUnsigned and remainderUnsigned methods in java.lang.Integer and java.lang.Long
JDK-8341070	javac fails with an exception when compiling import module under source level 8
JDK-8341072	Open source several AWT Canvas and Rectangle related tests
JDK-8341091	CDS: Segmented roots array misses roots
JDK-8341094	Clean up relax_verify in ClassFileParser
JDK-8341096	ProblemList compiler/cha/TypeProfileFinalMethod.java in Xcomp mode
JDK-8341100	Add index entries for terms used in java.lang.Class
JDK-8341101	[ARM32] Error: ShouldNotReachHere() in TemplateInterpreterGenerator::generate_math_entry after 8338694
JDK-8341111	open source several AWT tests including menu shortcut tests

Issue ID	Summary
JDK-8341127	Extra call to MethodHandle::asType from memory segment var handles fails to inline
JDK-8341128	open source some 2d graphics tests
JDK-8341131	Some jdk/jfr/event/compiler tests shouldn't be executed with Xcomp
JDK-8341134	Deprecate for removal the jrunscript tool
JDK-8341135	Incorrect format string after JDK-8339475
JDK-8341136	Optimize StackMapGenerator::trimAndCompress
JDK-8341137	Optimize long vector multiplication using x86 VPMUL[U]DQ instruction
JDK-8341138	Rename jtreg property docker.support as container.support
JDK-8341141	Optimize DirectCodeBuilder
JDK-8341142	Maintain a single source file for sun.net.www.protocol.jar.JarFileFactory
JDK-8341146	RISC-V: Unnecessary fences used for load-acquire in template interpreter
JDK-8341148	Open source several Choice related tests
JDK-8341162	Open source some of the AWT window test
JDK-8341168	Cleanup dead code after JDK-8322630
JDK-8341170	Open source several Choice related tests (part 2)
JDK-8341176	Permit access to diagnostics for transient snippets

Issue ID	Summary
JDK-8341177	Opensource few List and a Window test
JDK-8341178	TypeRawPtr::add_offset may be "miscompiled" due to UB
JDK-8341191	Open source few more AWT FileDialog tests
JDK-8341194	[REDO] Implement C2 VectorizedHashCode on AArch64
JDK-8341197	[BACKOUT] 8322770: Implement C2 VectorizedHashCode on AArch64
JDK-8341199	Use ClassFile's new API loadConstant(int)
JDK-8341201	Broken link in AbstractAnnotationValueVisitor7 due to extra quotation mark
JDK-8341235	Improve default instruction frame title in PassFailJFrame
JDK-8341238	G1: Refactor G1Policy to move collection set selection methods into G1CollectionSet
JDK-8341239	Open source closed frame tests # 3
JDK-8341242	Shenandoah: LRB node is not matched as GC barrier after JDK-8340183
JDK-8341243	Use ArraySupport.SOFT_MAX_ARRAY_LENGTH for max array size in java.base
JDK-8341246	Test com/sun/tools/attach/PermissionTest.java fails access denied after JDK-8327114
JDK-8341257	Open source few DND tests - Set1
JDK-8341258	Open source few various AWT tests - Set1
JDK-8341260	Add Float16 to jdk.incubator.vector

Issue ID	Summary
JDK-8341261	Tests assume UnlockExperimentalVMOptions is disabled by default
JDK-8341273	JVMTI is not properly hiding some continuation related methods
JDK-8341277	Validate slot argument for instruction factories
JDK-8341278	Open source few TrayIcon tests - Set7
JDK-8341282	(fs) Move creation time fallback logic to Java layer (Linux)
JDK-8341292	Open some TextArea awt tests 3
JDK-8341295	Add some useful debugging APIs to the debug agent
JDK-8341298	Open source more AWT window tests
JDK-8341310	Test TestJcmdWithSideCar.java should skip ACCESS_TMP_VIA_PROC_ROOT (after JDK-8327114)
JDK-8341316	[macos] javax/swing/ProgressMonitor/ProgressMonitorEscapeKeyPress.java fails sometimes in macos
JDK-8341328	Refactor initial Assertion Predicate creation into separate classes
JDK-8341333	[JVMCI] Export JavaThread::_unlocked_inflated_monitor to JVMCI
JDK-8341334	CDS: Parallel relocation
JDK-8341336	Fix -Wzero-as-null-pointer-constant warnings in PRODUCT-only code
JDK-8341366	Suspicious check in Locale.getDisplayName(Locale inLocale)
JDK-8341367	Problemlist ShapeNotSetSometimes.java on macOS

Issue ID	Summary
JDK-8341371	CDS cannot load archived heap objects with -XX:+UseSerialGC -XX:-UseCompressedOops
JDK-8341373	Open source closed frame tests # 4
JDK-8341376	Open some TextArea awt tests 4
JDK-8341377	Update VMProps.isCDSRuntimeOptionsCompatible to include Parallel and Serial GC
JDK-8341378	Open source few TrayIcon tests - Set8
JDK-8341379	Shenandoah: Improve lock contention during cleanup
JDK-8341399	Add since checker tests to the langtools modules
JDK-8341407	C2: assert(main_limit == cl->limit() get_ctrl(main_limit) == new_limit_ctrl) failed: wrong control for added limit
JDK-8341408	Implement JEP 488: Primitive Types in Patterns, instanceof, and switch (Second Preview)
JDK-8341411	C2: remove slice parameter from GraphKit::make_load() and GraphKit::store_to_memory()
JDK-8341412	Various test failures after JDK-8334305
JDK-8341413	Stop including osThread_os.hpp in the middle of the OSThread class
JDK-8341415	Optimize RawBytecodeHelper::next
JDK-8341424	GHA: Collect hs_errs from build time failures
JDK-8341427	JFR: Adjust object sampler span handling

Issue ID	Summary
JDK-8341436	containers/docker/TestJcmdWithSideCar.java takes needlessly long to run
JDK-8341443	[macos] AppContentTest and SigningOptionsTest failed due to "codesign" does not fails with "--app-content" on macOS 15
JDK-8341444	Unnecessary check for JSRs in CDS
JDK-8341445	DecimalFormatSymbols setters should throw NPE
JDK-8341447	Open source closed frame tests # 5
JDK-8341451	Remove C2HandleAnonOMOwnerStub
JDK-8341452	Test runtime/cds/appcds/DumpRuntimeClassesTest.java from JDK-8324259 is failing
JDK-8341453	java/awt/a11y/AccessibleJTableTest.java fails in some cases where the test tables are not visible
JDK-8341470	BigDecimal.stripTrailingZeros() optimization
JDK-8341471	Reversed field layout caused by unstable sorting
JDK-8341483	Clarify special case handling of Types.getArrayType
JDK-8341489	ProblemList runtime/cds/appcds/DumpRuntimeClassesTest.java in Xcomp mode
JDK-8341495	JShell crashes with java.util.MissingFormatArgumentException
JDK-8341510	Optimize StackMapGenerator::processFieldInstructions
JDK-8341512	Optimize StackMapGenerator::processInvokeInstructions

Issue ID	Summary
JDK-8341513	Remove the unused <code>thread_type</code> field from <code>OSThread</code>
JDK-8341525	G1: use bit clearing to remove tightly-coupled initialization store pre-barriers
JDK-8341527	AVX-512 intrinsic for SHA3
JDK-8341535	<code>sun/awt/font/TestDevTransform.java</code> fails with <code>RuntimeException: Different rendering</code>
JDK-8341541	Wrong anchor in wrapper classes links
JDK-8341548	More concise use of classfile API
JDK-8341551	Revisit <code>jdk.internal.loader.URLClassPath.JarLoader</code> after JEP 486
JDK-8341553	Remove <code>UseCompactObjectHeaders</code> extra CDS archives
JDK-8341554	Shenandoah: Missing heap lock when updating usage for soft ref policy
JDK-8341558	[AIX] build broken after 8341413
JDK-8341562	RISC-V: Generate comments in <code>-XX:+PrintInterpreter</code> to link to source code
JDK-8341566	Add <code>Reader.of(CharSequence)</code>
JDK-8341581	Optimize <code>BytecodeHelpers</code> validate slot
JDK-8341584	Test <code>java/foreign/TestUpcallStress.java</code> intermittent timeout with <code>-Xcomp</code>
JDK-8341585	Test <code>java/foreign/TestUpcallStress.java</code> should mark as <code>/native</code>
JDK-8341588	Remove <code>CollectionUsageThreshold.java</code> from <code>ProblemList-Xcomp</code> for debugging

Issue ID	Summary
JDK-8341593	Problemlist java/foreign/TestUpcallStress.java in Xcomp mode
JDK-8341594	Use Unsafe to coalesce reads in java.util.zip.ZipUtils
JDK-8341595	Clean up iteration of CEN headers in ZipFile.Source.initCEN
JDK-8341597	ZipFileInflaterInputStream input buffer size uses uncompressed size
JDK-8341612	[BACKOUT] 8338442: AArch64: Clean up IndOffXX type and let legitimize_address() fix out-of-range operands
JDK-8341619	C2: remove unused StoreCM node
JDK-8341622	Tag-specific disabled default decorators for UnifiedLogging
JDK-8341625	Improve ZipFile validation of the END header
JDK-8341631	JShell should auto-import java.io.IO.*
JDK-8341633	StatSampler::assert_system_property: Print the keys and values of the assert
JDK-8341637	java/net/Socket/UdpSocket.java fails with "java.net.BindException: Address already in use" (macos-aarch64)
JDK-8341643	G1: Merged cards counter skewed by merge cards cache
JDK-8341644	Compile error in cgroup coding when using toolchain clang
JDK-8341649	Regressions with large metaspace apps after 8338526
JDK-8341658	RISC-V: Test DateFormatProviderTest.java run timedout
JDK-8341664	ReferenceClassDesclmpl cache internalName

Issue ID	Summary
JDK-8341666	FileInputStream doesn't support readAllBytes() or readNBytes(int) on pseudo devices
JDK-8341668	Shenandoah: assert(tail_bits < (idx_t)BitsPerWord) failed: precondition
JDK-8341684	Typo in External Specifications link of java.util.Currency
JDK-8341688	Aarch64: Generate comments in -XX:+PrintInterpreter to link to source code
JDK-8341692	Implement JEP 490: ZGC: Remove the Non-Generational Mode
JDK-8341708	Optimize safepoint poll encoding with smaller poll data offset
JDK-8341715	PPC64: ObjectMonitor::_owner should be reset unconditionally in nmethod unlocking
JDK-8341722	Fix some warnings as errors when building on Linux with toolchain clang
JDK-8341755	Optimize argNames in InnerClassLambdaMetafactory
JDK-8341776	Remove unused enum values from LambdaForm\$Kind
JDK-8341784	Refactor TypeVect to use a BasicType instead of a const Type*
JDK-8341788	Fix ExceptionOccurred in hotspot
JDK-8341789	Fix ExceptionOccurred in java.base
JDK-8341790	Fix ExceptionOccurred in java.desktop
JDK-8341791	Fix ExceptionOccurred in java.prefs
JDK-8341792	Fix ExceptionOccurred in java.security.jgss

Issue ID	Summary
JDK-8341793	Fix ExceptionOccurred in jdk.accessibility
JDK-8341794	Fix ExceptionOccurred in jdk.attach
JDK-8341796	Fix ExceptionOccurred in jdk.hotspot.agent
JDK-8341797	Fix ExceptionOccurred in jdk.jdi
JDK-8341798	Fix ExceptionOccurred in jdk.jdwp.agent
JDK-8341803	ProblemList containers/docker/TestJcmdWithSideCar.java on linux-x64
JDK-8341805	ProblemList five mlvm/indy/func/jvmti tests in Xcomp mode
JDK-8341806	Gcc version detection failure on Alinux3
JDK-8341819	LightweightSynchronizer::enter_for races with deflation
JDK-8341820	Check return value of hcreate_r
JDK-8341831	PhaseCFG::insert_anti_dependences asserts with "no loads"
JDK-8341832	Incorrect continuation address of synthetic SIGSEGV for APX in product builds
JDK-8341834	C2 compilation fails with "bad AD file" due to Replicate
JDK-8341854	Incorrect clearing of ZF in fast_unlock_lightweight on x86
JDK-8341859	Optimize ClassFile Benchmark Write
JDK-8341860	ProblemList applications/ctw/modules/java_base_2.java on linux-x64
JDK-8341861	GHA: Use only retention mechanism to remove bundles

Issue ID	Summary
JDK-8341862	PPC64: C1 unwind_handler fails to unlock synchronized methods with LM_MONITOR
JDK-8341871	Disable G1 for unsupported platforms after JDK-8334060
JDK-8341880	RISC-V: riscv_vector.h native build fails with gcc13 after JDK-8320500
JDK-8341881	[REDO] java/nio/file/attribute/BasicFileAttributeView/CreationTime.java#tmp fails on alinux3
JDK-8341882	[BACKOUT] java/nio/file/attribute/BasicFileAttributeView/CreationTime.java#tmp fails on alinux3
JDK-8341893	AArch64: Micro-optimize compressed ptr decoding
JDK-8341900	Optimize DirectCodeBuilder writeBody
JDK-8341901	Using 'var' keyword switch pattern matching causes compiler error
JDK-8341903	Implementation of Scoped Values (Fourth Preview)
JDK-8341904	Search tag in inherited doc comment creates additional index item
JDK-8341906	Optimize ClassFile writing BufBuffer
JDK-8341907	javac -Xlint should ignore /// on first line of source file
JDK-8341909	G1: Add region index to region printer output
JDK-8341913	Support CDS heap dumping for Shenandoah and Epsilon
JDK-8341916	Remove ProtectionDomain related hotspot code and tests

Issue ID	Summary
JDK-8341923	java.util.Locale class specification improvements
JDK-8341924	Improve error message with structurally malformed Code array
JDK-8341927	Replace hardcoded security providers with new test.provider.name system property
JDK-8341931	os_linux gtest uses lambdas with explicit capture lists
JDK-8341935	javac states that -proc:full is the default but the default as of 23 is -proc:none
JDK-8341939	SigningOptionsTest fails without Xcode with command line developer tools after JDK-8341443
JDK-8341964	Add mechanism to disable different parts of TLS cipher suite
JDK-8341966	Broken annotated module may lead to an exception in javac
JDK-8341967	Unify os::current_file_offset and os::seek_to_file_offset across posix platforms
JDK-8341972	java/awt/dnd/DnDRemoveFocusOwnerCrashTest.java timed out after JDK-8341257
JDK-8341975	Unable to set encoding for IO.println, IO.print and IO.readln
JDK-8341977	Replace predicate walking and cloning code for Loop Peeling with a predicate visitor
JDK-8341978	Improve JButton/bug4490179.java
JDK-8341982	Simplify JButton/bug4323121.java
JDK-8341997	Tests create files in src tree instead of scratch dir

Issue ID	Summary
JDK-8342002	sun/security/tools/keytool/GenKeyPairSigner.java failed due to missing certificate output
JDK-8342003	ProblemList sun/security/tools/keytool/GenKeyPairSigner.java
JDK-8342011	Conditionally compile ReservedHeapSpace compressed heap support
JDK-8342014	RISC-V: ZStoreBarrierStubC2 clobbers rflags
JDK-8342040	Further improve entry lookup performance for multi-release JARs
JDK-8342041	Test gc/shenandoah/oom/TestClassLoaderLeak.java slow on Windows after JDK-8340490
JDK-8342042	PPC64: compiler_fast_unlock_object flags failure instead of success
JDK-8342043	Split Opaque4Node into OpaqueTemplateAssertionPredicateNode and OpaqueNotNullNode
JDK-8342044	Increase timeout of gc/shenandoah/oom/TestClassLoaderLeak.java
JDK-8342047	Create Template Assertion Predicates with Halt nodes only instead of uncommon traps
JDK-8342062	Reformat keytool and jarsigner output for keys with a named parameter set
JDK-8342074	Fix runtime/Thread/TestAlwaysPreTouchStacks.java to be flagless or accept VM flags
JDK-8342075	HttpClient: improve HTTP/2 flow control checks
JDK-8342079	Shenandoah: Remove extra ShenandoahInitMarkRootsClosure
JDK-8342081	Shenandoah: Remove extra ShenandoahMarkUpdateRefsSuperClosure

Issue ID	Summary
JDK-8342082	Remove unused BasicProgressBarUI.Animator.interval
JDK-8342083	Make a few fields in FileSystemPreferences final
JDK-8342086	FileInputStream.available() fails with "Incorrect function" for "nul" path (win)
JDK-8342089	Require --enable-native-access to be the same between CDS dump time and run time
JDK-8342090	Infer::IncorporationBinaryOp::equals can produce side-effects
JDK-8342098	Write a test to compare the images
JDK-8342102	ZGC: Optimize copy constructors in ZPhysicalMemory
JDK-8342105	JVM Crash when Jacoco and JFR are active
JDK-8342119	Shenandoah: Remove extra ShenandoahUpdateRefsClosure
JDK-8342145	File libCreationTimeHelper.c compile fails on Alpine
JDK-8342156	C2: Compilation failure with fewer arguments after JDK-8329032
JDK-8342181	Update tests to use stronger Key and Salt size
JDK-8342182	G1: G1OldGenAllocationTracker does not account for direct allocations in regions
JDK-8342183	Update tests to use stronger algorithms and keys
JDK-8342188	Update tests to use stronger key parameters and certificates
JDK-8342270	Test sun/security/pkcs11/Provider/RequiredMechCheck.java needs write access to src tree

Issue ID	Summary
JDK-8342280	Deprecate for removal java.awt.AWTPermission
JDK-8342281	Deprecate for removal javax.sound.sampled.AudioPermission
JDK-8342287	C2 fails with "assert(is_IfTrue()) failed: invalid node class: IfFalse" due to Template Assertion Predicate with two UCTs
JDK-8342295	compiler/jvmci/TestJVMCISavedProperties.java fails due to garbage in output
JDK-8342299	Document that jpackage includes (possibly old) VC Redistributable MSVCP140.dll from JDK
JDK-8342303	Segfault in update_inherited_vtable: AppCDS, old bytecode, and redefineClasses
JDK-8342329	G1: Rename G1HeapRegionManager::_allocated_heapregions_length
JDK-8342330	C2: "node pinned on loop exit test?" assert failure
JDK-8342332	[JVMCI] Export CompilerToVM::Data::dtanh
JDK-8342334	CDS: Scratch mirrors should not point to dead classes
JDK-8342336	Optimize ClassFile imports
JDK-8342338	Remove redundant IOPURLTest.java
JDK-8342376	More reliable OOM handling in ExceptionDuringDumpAtObjectsInitPhase test
JDK-8342380	Implement JEP 498: Warn upon Use of Memory-Access Methods in sun.misc.Unsafe
JDK-8342387	C2 SuperWord: refactor and improve compiler/loopopts/superword/TestDependencyOffsets.java

Issue ID	Summary
JDK-8342409	[s390x] C1 unwind_handler fails to unlock synchronized methods with LM_MONITOR
JDK-8342439	Build failure after 8338023
JDK-8342442	Static ACVP sample tests
JDK-8342449	reimplement: JDK-8327114 Attach in Linux may have wrong behavior when pid == ns_pid
JDK-8342458	More consistent constant instruction handling
JDK-8342465	Improve API documentation for java.lang.classfile
JDK-8342466	Improve API documentation for java.lang.classfile.attribute
JDK-8342468	Improve API documentation for java.lang.classfile.constantpool
JDK-8342469	Improve API documentation for java.lang.classfile.instruction
JDK-8342489	compiler/c2/irTests/TestVectorizationMismatchedAccess.java fails on big-endian platforms
JDK-8342496	C2/Shenandoah: SEGV in compiled code when running jcstress
JDK-8342498	Add test for Allocation elimination after use as alignment reference by SuperWord
JDK-8342508	Use latch in BasicMenuUI/bug4983388.java instead of delay
JDK-8342540	InterfaceCalls micro-benchmark gives misleading results
JDK-8342541	Exclude List/KeyEventsTest/KeyEventsTest.java from running on macOS

Issue ID	Summary
JDK-8342544	[macos] jpackage test helper should check for both "--app-image" and "--mac-sign" for signing predefined app image case
JDK-8342561	Metaspace for generated reflection classes is no longer needed
JDK-8342576	[macos] AppContentTest still fails after JDK-8341443 for same reason on older macOS versions
JDK-8342577	Clean up JVMTI breakpoint support
JDK-8342578	GHA: RISC-V: Bootstrap using Debian snapshot is still failing
JDK-8342579	RISC-V: C2: Cleanup effect of killing flag register for call instructs
JDK-8342582	user.region for formatting number no longer works for 21.0.5
JDK-8342588	Shenandoah: Pull shared closures together in one header
JDK-8342601	AArch64: Micro-optimize bit shift in copy_memory
JDK-8342602	Remove JButton/PressedButtonRightClickTest test
JDK-8342607	Enhance register printing on x86_64 platforms
JDK-8342609	jpackage test helper function incorrectly removes a directory instead of its contents only
JDK-8342610	ZGC: Cleanup pre-touching code
JDK-8342612	Increase memory usage of compiler/c2/TestScalarReplacementMaxLiveNodes.java
JDK-8342633	javax/management/security/HashedPasswordFileTest.java creates tmp file in src dir

Issue ID	Summary
JDK-8342634	javax/imageio/plugins/wbmp/WBMPStreamTruncateTest.java creates temp file in src dir
JDK-8342635	javax/swing/JFileChooser/FileSystemView/WindowsDefaultIconSizeTest.java creates tmp file in src dir
JDK-8342642	Class loading failure due to archived map issue in ModuleLoaderMap.Mapper
JDK-8342646	JTREG_TEST_THREAD_FACTORY in testing.md should be TEST_THREAD_FACTORY
JDK-8342647	[macosx] Clean up the NSInvocation based call to NSProcessInfo.operatingSystemVersion
JDK-8342650	Move getChars to DecimalDigits
JDK-8342653	Fix minor doc issues in AnnotatedElement
JDK-8342673	Test serviceability/jvmti/events/NotifyFramePopStressTest/NotifyFramePopStressTest.java failed: waited too long for notify
JDK-8342677	Add IR validation tests for newly added saturated vector add / sub operations
JDK-8342679	Clean up PreviewFeature.Feature
JDK-8342681	TestLoadBypassesNullCheck.java fails improperly specified VM option
JDK-8342683	Use non-short forward jump when passing stop()
JDK-8342693	Use byte[] as parameter in a FDBigInteger constructor and as field
JDK-8342698	Fix order of @param tags in module java.base

Issue ID	Summary
JDK-8342701	[PPC64] TestOSRLotsOfLocals.java crashes
JDK-8342704	GHA: Report truncation is broken after JDK-8341424
JDK-8342707	Prepare Gatherers for graduation from Preview
JDK-8342715	x86 unused orw instruction encoding could be removed
JDK-8342768	GTest AssemblerX86.validate_vm failed: assert(VM_Version::supports_bmi1()) failed: tzcnt instruction not supported
JDK-8342785	XWindowPeer::getNewLocation() adheres to ICCCM 4.1.5 only with some WMs
JDK-8342787	Move misplaced TestTemplateAssertionPredicateWithTwoUCTs.java from src to test directory
JDK-8342806	Desugar capturing lambda in StringNameTable
JDK-8342808	Javadoc should add whitespace between type parameters
JDK-8342809	C2 hits "assert(is_If()) failed: invalid node class: Con" during IGVN due to unhandled top
JDK-8342811	java/net/httpclient/PlainProxyConnectionTest.java failed: Unexpected connection count: 5
JDK-8342823	Ubsan: ciEnv.cpp:1614:65: runtime error: member call on null pointer of type 'struct CompileTask'
JDK-8342825	Fix order of @param tags in module java.desktop
JDK-8342826	Improve performance of oopDesc::klass() after JDK-8305895

Issue ID	Summary
JDK-8342827	Fix order of @param tags in other modules
JDK-8342836	Automatically determine that a test in the docs test root is requested
JDK-8342839	Malformed copyright in StringNameTable since JDK-8342806
JDK-8342850	Change ProblemList to have LimitDirectMemory refer to JDK-8342849
JDK-8342854	[JVMCI] Block secondary thread reporting a JVMCI fatal error
JDK-8342857	SA: Heap iterator makes incorrect assumptions about TLAB layout
JDK-8342858	Make target mac-jdk-bundle fails on chmod command
JDK-8342860	Fix more NULL usage backsliding
JDK-8342862	Gtest added by 8339507 appears to be causing 8GB build machines to hang
JDK-8342863	Use pattern matching for instanceof in equals methods of wrapper classes
JDK-8342865	Use type parameter for Class::getPrimitiveClass
JDK-8342882	RISC-V: Unify handling of jumps to runtime
JDK-8342884	RISC-V: verify float \leftrightarrow float16 conversion
JDK-8342902	Deduplication of acquire calls in BindingSpecializer causes escape-analysis failure
JDK-8342903	Deprecate for removal java.awt.Window.getWarningString()
JDK-8342918	Building ParallelGC without G1 and Shenandoah fails because SpaceMangler not declared

Issue ID	Summary
JDK-8342930	New tests from JDK-8335912 are failing
JDK-8342931	ProblemList failing tests from JDK-8335912
JDK-8342934	TYPE_USE annotations printed with error causing "," in toString output
JDK-8342936	Enhance java.io.IO with parameter-less println() and readln()
JDK-8342938	Problem list java/io/IO/IO.java test on Linux ppc64le
JDK-8342939	Building ZGC without compiler2 fails
JDK-8342943	Replace predicate walking and cloning code for main/post loops with a predicate visitor
JDK-8342945	Replace predicate walking code in get_assertion_predicates() used for Loop Unswitching and cleaning useless Template Assertion Predicates with a predicate visitor
JDK-8342946	Replace predicate walking code in Loop Unrolling with a predicate visitor
JDK-8342953	RISC-V: Fix definition of RISCV_HWPROBE_EXT_ZVFHMIN
JDK-8342958	Use jvmArgs consistently in microbenchmarks
JDK-8342962	[s390x] TestOSRLotsOfLocals.java crashes
JDK-8342963	TestLargeStub::testUpCall doesn't test upcalls stubs
JDK-8342967	Lambda deduplication fails with non-metafactory BSMs and mismatched local variables names
JDK-8342975	C2: Micro-optimize PhaseIdealLoop::Dominators()

Issue ID	Summary
JDK-8342988	GHA: Build JTReg in single step
JDK-8343001	Adjust XSLT and XPath Extension Function Property
JDK-8343004	Adjust JAXP limits
JDK-8343019	Primitive caches must use boxed instances from the archive
JDK-8343020	(fs) Add support for SecureDirectoryStream on macOS
JDK-8343026	JFR: Index into fields in the topFrame
JDK-8343030	RISC-V: Small assembler cleanups
JDK-8343037	Missing @since tag on JColorChooser.showDialog overload
JDK-8343039	Remove jdk.internal.misc.InternalLock and usages from java.io
JDK-8343040	Clean up references to JRE in the launcher code
JDK-8343056	C2: Micro-optimize Node lists grow
JDK-8343057	JFR: Sorting in 'jfr view' can violate contract
JDK-8343060	RISC-V: enable TestFloat16VectorConvChain for riscv
JDK-8343063	RISC-V: remove redundant reg copy in generate_resolve_blob
JDK-8343064	ClassFormatError: Illegal class name from InnerClassLambdaMetafactory
JDK-8343067	C2: revisit constant-offset AddP chains after successful input idealizations
JDK-8343068	C2: CastX2P Ideal transformation not always applied

Issue ID	Summary
JDK-8343071	Broken anchors to restricted method page and some redundant ids
JDK-8343085	[macos] jpackage verbose output on macOS contains numerous "Running /usr/bin/codesign" entries
JDK-8343086	[BACKOUT] JDK-8295269 G1: Improve slow startup due to predictor initialization
JDK-8343100	Consolidate EmptyFolderTest and EmptyFolderPackageTest jpackage tests into single java file
JDK-8343101	Rework BasicTest.testTemp test cases
JDK-8343102	Remove --compress from jlink command lines from jpackage tests
JDK-8343103	Enable debug logging for vmTestbase/nsk/jvmti/scenarios/sampling/SP05/sp05t003/TestDescription.java
JDK-8343115	SkipIfEqual class is not used after JDK-8335946
JDK-8343118	[TESTBUG] java/awt/PrintJob/PrintCheckboxTest/PrintCheckboxManualTest.java fails with rror. Can't find HTML file PrintCheckboxManualTest.html
JDK-8343121	RISC-V: More accurate max size for C2SafepointPollStub and C2EntryBarrierStub
JDK-8343122	RISC-V: C2: Small improvement for real runtime callouts
JDK-8343123	Nimbus: javax/swing/JInternalFrame/bug6726866.java does not have green undecorated window
JDK-8343124	Tests fails with java.lang.IllegalAccessException: class com.sun.javatest.regtest.agent.MainWrapper\$MainTask cannot access

Issue ID	Summary
JDK-8343125	Correct the documentation for TreeMap's getFloorEntry and getCeilingEntry
JDK-8343128	PassFailJFrame.java test result: Error. Bad action for script: build}
JDK-8343129	Disable unstable check of ThreadsListHandle.sanity_vm ThreadList values
JDK-8343132	Remove temporary transitions from Virtual thread implementation
JDK-8343137	C2: VerifyLoopOptimizations fails with "Was reachable in only one"
JDK-8343140	JfrJavaSupport uses the wrong accessors for sub-int fields
JDK-8343144	UpcallLinker::on_entry racingly clears pending exception with GC safepoints
JDK-8343149	Cleanup os::print_tos_pc on AIX
JDK-8343150	Change URLClassLoader.getPermissions to return empty PermissionCollection
JDK-8343153	compiler/codecache/CheckLargePages.java fails on linux with huge pages configured but its number set to 0
JDK-8343167	Unnecessary define checks in InterpreterRuntime after JDK-8199809
JDK-8343173	Remove ZGC-specific non-JVMCI test groups
JDK-8343177	JFR: Remove critical section for thread id assignment
JDK-8343178	Test BasicTest.java javac compile fails cannot find symbol
JDK-8343183	[s390x]: Problemlist runtime/Monitor/SyncOnValueBasedClassTest.java Failure
JDK-8343186	hsdis build libopcodes and libbfd are not found

Issue ID	Summary
JDK-8343188	Investigate ways to simplify MemorySegment::ofBuffer
JDK-8343189	[REDO] JDK-8295269 G1: Improve slow startup due to predictor initialization
JDK-8343190	GHA: Try building JTReg several times
JDK-8343194	Avoid redundant Hashtable.containsKey call in CodeSource.readObject
JDK-8343205	CompileBroker::possibly_add_compiler_threads excessively polls available memory
JDK-8343206	Final graph reshaping should not compress abstract or interface class pointers
JDK-8343211	Compile error: redefinition of 'Assembler::evmovdqwu(XMMRegister,KRegister,XMMRegister,bool,int)'
JDK-8343213	TEST_BUG: [Graal] java/lang/ref/Basic.java fails
JDK-8343214	Fix encoding errors in APX New Data Destination Instructions Support
JDK-8343219	Manual clientlibs test failures after SM removal
JDK-8343234	(bf) Move java/nio/Buffer/LimitDirectMemory.java from ProblemList.txt to ProblemList-Virtual.txt
JDK-8343236	Use @apiNote and @implSpec in j.util.Currency
JDK-8343237	Improve the copying of the available set of Currencies
JDK-8343239	Javadoc marks non-preview type as preview if it's the subtype of a preview type
JDK-8343242	RISC-V: Refactor materialization of literal address

Issue ID	Summary
JDK-8343250	ArrayBlockingQueue serialization not thread safe
JDK-8343285	java.lang.Process is unresponsive and CPU usage spikes to 100%
JDK-8343286	Missing unchecked cast warning in polymorphic method call
JDK-8343293	Remove the check for <apphome>/jre/lib/libjava.dylib from the launcher's java_md_macosx.m
JDK-8343296	IGV: Show pre/main/post at CountedLoopNodes
JDK-8343297	Vector unsigned min/max test are failing with -Xcomp
JDK-8343298	Improve stability of runtime/cds/DeterministicDump.java test
JDK-8343305	Remove Indify-dependent microbenchmarks
JDK-8343306	javac is failing to determine if a class and a sealed interface are disjoint
JDK-8343307	Throw ZipException instead of IAE in ZipFile.Source::initCEN
JDK-8343314	Move common properties from jpackage jtreg test declarations to TEST.properties file
JDK-8343317	Extend test generation tool to handle APX NDD/NF flavor of instructions
JDK-8343321	Bad verify in LockStack::oops_do()
JDK-8343333	Parallel: Cleanup comment referring Solaris in MutableNUMASpace
JDK-8343343	Misc crash dump improvements on more platforms after JDK-8294160
JDK-8343344	Windows attach logic failed to handle a failed open on a pipe

Issue ID	Summary
JDK-8343345	Use <code>-jvmArgsPrepend</code> when running microbenchmarks in <code>RunTests.gmk</code>
JDK-8343377	Performance regression in reflective invocation of native methods
JDK-8343378	Exceptions in <code>javax/management/DeadLockTest.java</code> do not cause test failure
JDK-8343379	[BACKOUT] 8343190 GHA: Try building JTReg several times
JDK-8343380	C2: <code>assert(iff→in(1)→is_OpaqueNotNull())</code> failed: must be <code>OpaqueNotNull</code>
JDK-8343394	Make <code>MemorySessionImpl.state</code> a stable field
JDK-8343396	Use <code>OperatingSystem</code> , <code>Architecture</code> , and <code>OSVersion</code> in <code>jpackage</code> tests
JDK-8343411	Test fail on Windows due to "An established connection was aborted by the software in your host machine"
JDK-8343412	Missing escapes for single quote marks in <code>javac.properties</code>
JDK-8343415	RISC-V: Increase maximum size of <code>C2EntryBarrierStub</code> by four
JDK-8343416	CDS dump fails when unregistered class can also be loaded from system modules
JDK-8343417	(fs) <code>BasicFileAttributeView.setTimes</code> uses microsecond precision with <code>NOFOLLOW_LINKS</code>
JDK-8343418	Unnecessary <code>Hashtable</code> usage in <code>CSS.htmlAttrToCssAttrMap</code>
JDK-8343419	Assertion failure in long vector unsigned min/max with <code>-XX:+UseKNLSetting</code>
JDK-8343426	<code>ConcurrentSkipListMap.splitIterator()</code> can no longer split the stream
JDK-8343427	Class file load hook crashes on archived classes from multi-release JARs

Issue ID	Summary
JDK-8343430	RISC-V: C2: Remove old trampoline call
JDK-8343433	Update net.properties and java.net.http module-info.java after 8326949
JDK-8343436	Regression in StackMapGenerator after JDK-8339205
JDK-8343437	ClassDesc.of incorrectly permitting empty names
JDK-8343439	[JVMCI] Fix javadoc of Services.getSavedProperties
JDK-8343442	Add since checker tests to the networking area modules
JDK-8343452	Incorrect WINDOWS build variable is used in macroAssembler_x86.cpp
JDK-8343453	Modernize FloatingDecimal tests
JDK-8343460	ZGC: Crash in ZRemembered::scan_page_and_clear_remset
JDK-8343471	RISC-V: compiler/cpuflags/TestAESIntrinsicsOnUnsupportedConfig.java fails after JDK-8334999
JDK-8343473	Update copyright year of AddmodsOption.java
JDK-8343476	Remove unnecessary @SuppressWarnings annotations (client)
JDK-8343479	Remove unnecessary @SuppressWarnings annotations (hotspot)
JDK-8343480	Remove unnecessary @SuppressWarnings annotations (javadoc)
JDK-8343482	Remove unnecessary @SuppressWarnings annotations (net)
JDK-8343483	Remove unnecessary @SuppressWarnings annotations (serviceability)

Issue ID	Summary
JDK-8343484	Remove unnecessary @SuppressWarnings annotations (nio)
JDK-8343486	Remove unnecessary @SuppressWarnings annotations and -Xlint:-foo options
JDK-8343488	Test VectorRebracket128Test.java can't exclude by test/hotspot/jtreg/ProblemList.txt
JDK-8343491	javax/management/remote/mandatory/connection/DeadLockTest.java failing with NoSuchObjectException: no such object in table
JDK-8343493	Perform module checks during MetaspaceShared::map_archives()
JDK-8343497	Missing DEF_STATIC_JNI_OnLoad in libjimage and libsaproc native libraries
JDK-8343500	Optimize ArrayClassDescImpl computeDescriptor
JDK-8343502	RISC-V: SIGBUS in updateBytesCRC32 after JDK-8339738
JDK-8343505	Problemlist java/lang/Thread/jni/AttachCurrentThread/AttachTest.java
JDK-8343506	[s390x] multiple test failures with ubsan
JDK-8343507	Parallel: Fail if verify_complete finds incorrect states
JDK-8343508	Parallel: Use ordinary klass accessor in verify_filler_in_dense_prefix
JDK-8343510	JFR: Remove AccessControlContext from FlightRecorder::addListener specification
JDK-8343513	Forward declare Thread in mutexLocker.hpp
JDK-8343529	serviceability/sa/CIhsdbWhere.java fails AssertionFailure: Corrupted constant pool

Issue ID	Summary
JDK-8343531	Improve print_location for invalid heap pointers
JDK-8343532	Test test/hotspot/jtreg/runtime/cds/appcds/jigsaw/addmods/AddmodsOption.java fails on Linux ppc64le after JDK-8319343
JDK-8343535	IGV: Colorize nodes on demand
JDK-8343540	Report preview error for inherited effectively-preview methods
JDK-8343541	C1: Plain memory accesses are emitted with membars with +AlwaysAtomicAccesses
JDK-8343547	Restore accidentally removed annotations in LambdaForm from ClassFile API port
JDK-8343549	SeededSecureRandomTest needn't be in a package
JDK-8343551	Missing copyright header update in Charset-X-Coder.java.template
JDK-8343555	RISC-V: make some verified (on hardware) extension options diagnostic
JDK-8343598	Since Checker can mark some preview elements as new even if bytecode reference is identical
JDK-8343599	Kmem limit and max values swapped when printing container information
JDK-8343600	RISC-V: enable CRC32 intrinsic when either Zba or RVV are supported
JDK-8343610	InOutPathTest jpackage test produces invalid app image on macOS
JDK-8343622	AesDkCrypto.stringToKey should not return null
JDK-8343633	The ClassLoader::print_counters() prints to stdout when logging is enabled.

Issue ID	Summary
JDK-8343650	Reuse StringLatin1::putCharsAt and StringUTF16::putCharsAt
JDK-8343684	Test KDFDelayedProviderSyncTest.java intermittent fails didn't finish within the time-out 150
JDK-8343693	[JVMCI] Override ModifiersProvider.isConcrete in ResolvedJavaType to be isArray() !isAbstract()
JDK-8343698	Linux x86_64 lto build gives a lot of warnings and fails lto-wrapper: fatal error: make returned 2 exit status
JDK-8343699	[aarch64] Bug in MacroAssembler::klass_decode_mode()
JDK-8343700	ceil_log2 should not loop endlessly
JDK-8343703	Symbol name cleanups after JEP 479
JDK-8343704	Bad GC parallelism with processing Cleaner queues
JDK-8343705	IGV: Interactive Node Moving in Hierarchical Layout
JDK-8343724	[PPC64] Disallow OptoScheduling
JDK-8343726	[BACKOUT] NMT should not use ThreadCritical
JDK-8343730	JMX cleanups
JDK-8343736	Test java/awt/Focus/UnaccessibleChoice/AccessibleChoiceTest.java failed: Choice can't be controlled by keyboard
JDK-8343741	SA jstack --mixed should print information about VM locks
JDK-8343745	Only update Last Value Assertion Predicates in Loop Unrolling

Issue ID	Summary
JDK-8343747	C2: TestReplicateAtConv.java crashes with -XX:MaxVectorSize=8
JDK-8343752	The javadoc should contain a note about usages of requires transitive java.base;
JDK-8343754	Problemlist jdk/jfr/event/oldobject/TestShenandoah.java after JDK-8279016
JDK-8343755	Unproblemlist java/lang/Thread/jni/AttachCurrentThread/AttachTest.java
JDK-8343756	CAN_SHOW_REGISTERS_ON_ASSERT for Windows
JDK-8343770	Build fails due to use of sun.misc.Unsafe in LoopOverRandom
JDK-8343771	Some FFM benchmarks are broken
JDK-8343772	Expected IAPE not thrown in KDF.getInstance (TCK)
JDK-8343774	Positive list platforms for ir checks of compiler/c2/TestCastX2NotProcessedIGVN.java
JDK-8343775	Add since checker tests to the security area modules
JDK-8343777	Add since checker tests to Internationalisation modules
JDK-8343780	Add since checker tests to the Tools area modules and add missing @since to jdk.jfr
JDK-8343781	Add since checker test to the Serviceability area modules
JDK-8343783	Improve asserts in concurrentHashTable.inline.hpp
JDK-8343785	(fs) Remove syscalls that set file times with microsecond precision
JDK-8343788	Provide means to alter lib/tzmappings entries on Windows

Issue ID	Summary
JDK-8343791	Socket.connect API should document whether the socket will be closed when hostname resolution fails or another error occurs
JDK-8343793	Test java/foreign/TestMemorySession.java is timing out
JDK-8343800	Cleanup definition of NULL_WORD
JDK-8343801	Change string printed by nsk_null_string for null strings
JDK-8343804	Show the default time zone with -XshowSettings option
JDK-8343805	RISC-V: JVM crashes on startup when disabling compressed instructions
JDK-8343810	[s390x] is_uimm* methods should take unsigned arguments
JDK-8343819	Link Float.NaN and Double.NaN to equivalence discussion in Double
JDK-8343823	(fs) Files.createLink: inconsistent behavior when creating link to symbolic link
JDK-8343824	Remove unused InstructionFlags in C1
JDK-8343827	RISC-V: set AlignVector as false if applicable to enable SLP
JDK-8343837	Remove unnecessary reinterpret_cast from C2AccessValuePtr
JDK-8343838	Test EmptyDomainNotificationTest.java fails with ListenerNotFoundException
JDK-8343839	Detect patched modules and abort run-time image link early
JDK-8343844	Add benchmarks for superword/autovectorization in FFM BulkOperations
JDK-8343848	Fix typo of property name in TestOAEPPadding after 8341927

Issue ID	Summary
JDK-8343855	HTTP/2 ConnectionWindowUpdateSender may miss some unprocessed DataFrames from closed streams
JDK-8343875	Minor improvements of jpackage test library
JDK-8343876	Enhancements to jpackage test lib
JDK-8343877	Test AsyncClose.java intermittent fails - Socket.getInputStream().read() wasn't preempted
JDK-8343881	java.lang.classfile.Attribute attributeName() method should return Utf8Entry
JDK-8343883	Cannot resolve user specified toolchain-path for lld after JDK-8338304
JDK-8343884	[s390x] Disallow OptoScheduling
JDK-8343889	Test runtime/cds/appcds/defineClass/RedeclareBasicTest.java failed
JDK-8343890	SEGV crash in RunTimeClassInfo::klass
JDK-8343893	Test jdk/jfr/event/runtime/TestNativeMemoryUsageEvents.java failed: heap should have grown and NMT should show that: expected 0 > 0
JDK-8343894	ProblemList javax.management.remote.mandatory/notify/EmptyDomainNotificationTest.java
JDK-8343902	javax.swing.plaf.nimbus/8041642/bug8041642.java fails in ubuntu22.04
JDK-8343923	GHA: Switch to Xcode 15 on MacOS AArch64 runners
JDK-8343925	[BACKOUT] JDK-8342650 Move getChars to DecimalDigits
JDK-8343929	Remove PreservedMarksSet::createTask() after JDK-8305895

Issue ID	Summary
JDK-8343931	Removed unused code in CompressedKlassPointers::initialize_for_given_encoding
JDK-8343932	Error when parsing qualified generic type test pattern in switch
JDK-8343936	Adjust timeout in test javax/management/monitor/DerivedGaugeMonitorTest.java
JDK-8343941	IGV: dump graph at different register allocation steps
JDK-8343944	C2: MinLNode::add_ring() computes _widen wrongly leading to an endless widening/compilation
JDK-8343946	JFR: Wildcard should only work with COUNT for 'jfr view'
JDK-8343953	Test jdk/jfr/threading/TestDeepVirtualStackTrace.java fails with Parallel/Serial GC
JDK-8343957	Rename ObjectMonitor::owner_from() and JavaThread::_lock_id
JDK-8343958	Remove security manager impl in java.lang.Process and java.lang.Runtime.exec
JDK-8343964	RISC-V: Improve PrintOptoAssembly output for loadNKlassCompactHeaders node
JDK-8343981	Remove usage of security manager from Thread and related classes
JDK-8343982	Remove usage of security manager from ClassLoader and related classes
JDK-8343984	Fix Unsafe address overflow
JDK-8344010	RISC-V: Zacas do not work with LW locking

Issue ID	Summary
JDK-8344011	Remove usage of security manager from Class and reflective APIs
JDK-8344013	"bad tag in log" assert with +LogCompilation +CITimeVerbose
JDK-8344014	Simplify TracePhase constructor
JDK-8344018	Remove unlimited memory setting from TestScalarReplacementMaxLiveNodes
JDK-8344023	Unnecessary Hashtable usage in LdapClient.defaultBinaryAttrs
JDK-8344024	Unnecessary Hashtable usage in RSAPSSSignature.DIGEST_LENGTHS
JDK-8344025	Remove unused ISO2022.Encoder.maximumDesignatorLength
JDK-8344032	InterpreterRuntime::verify_mdp() missing lock while printing MethodData on failure
JDK-8344034	Remove security manager dependency in Serialization
JDK-8344036	Tests tools/jlink/runtimelImage fail on AIX after JDK-8311302
JDK-8344039	Remove security manager dependency in java.time
JDK-8344041	Re-enable external specs page
JDK-8344046	Tests under cds/appcds/jvmti/defineClasses should have @requires vm.cds
JDK-8344051	Problemlist jdk/jfr/event/runtime/TestNativeMemoryUsageEvents.java with ZGC until JDK-8343893 is fixed
JDK-8344056	Use markdown format for man pages

Issue ID	Summary
JDK-8344057	Remove doPrivileged calls from unix platform sources in the java.desktop module
JDK-8344058	Remove doPrivileged calls from macos platform sources in the java.desktop module
JDK-8344059	Remove doPrivileged calls from windows platform sources in the java.desktop module
JDK-8344060	Remove doPrivileged calls from shared implementation code in the java.desktop module : part 1
JDK-8344061	Remove doPrivileged calls from shared implementation code in the java.desktop module : part 2
JDK-8344062	Remove doPrivileged calls from awt and beans classes in the java.desktop module
JDK-8344063	Remove doPrivileged calls from swing classes in the java.desktop module
JDK-8344064	Remove doPrivileged calls from print/imageio/media classes in the java.desktop module
JDK-8344065	Remove SecurityManager uses from the java.datatransfer module
JDK-8344066	Remove SecurityManager uses from the jdk.accessibility module
JDK-8344068	Windows x86-64: Out of CodeBuffer space when generating final stubs
JDK-8344071	Mark some jdk/jfr/event/oldobject test flagless until they fixed to support all GC
JDK-8344074	RISC-V: C1: More accurate _exception_handler_size and _deopt_handler_size

Issue ID	Summary
JDK-8344077	Remove security manager dependency in java.io
JDK-8344078	Remove security manager dependency in java.nio
JDK-8344080	Return type mismatch for jfr_unregister_stack_filter
JDK-8344086	Remove security manager dependency in FFM
JDK-8344089	Fix wrong location of TestWrongMinLWiden.java
JDK-8344093	Implement JEP 501: Deprecate the 32-bit x86 Port for Removal
JDK-8344104	TestMergeStores fails with ArrayIndexOutOfBoundsException
JDK-8344105	Remove SecurityManager and related calls from jdk.attach and jdk.hotspot.agent
JDK-8344112	Remove code to support security manager execution mode from DatagramChannel implementation
JDK-8344118	C2 SuperWord: add VectorThroughputForIterationCount benchmark
JDK-8344120	Remove Security Manager dependencies from jdk.crypto.cryptoki module
JDK-8344122	IGV: Extend c2 IdealGraphPrinter to send subgraphs to IGV
JDK-8344124	JDK-8341411 Broke the build
JDK-8344128	Regression: make help broken after JDK-8340818
JDK-8344134	Use static property in SystemLookup
JDK-8344143	Test jdk/java/lang/Thread/virtual/stress/GetStackTraceALotWhenPinned.java timed out on macosx-x64

Issue ID	Summary
JDK-8344144	AES/CBC slow at big payloads
JDK-8344147	Remove Security Manager dependencies from java.security.sasl module
JDK-8344149	Remove usage of Security Manager from java.rmi
JDK-8344161	Argument type mismatch for jfr_type_id
JDK-8344164	[s390x] ProblemList hotspot/jtreg/runtime/NMT/VirtualAllocCommitMerge.java
JDK-8344177	Remove SecurityManager and related calls from java.management
JDK-8344179	SecurityManager cleanup in the ZIP and JAR areas
JDK-8344181	Remove SecurityManager and related calls from jdk.management and jdk.management.agent
JDK-8344183	(zipfs) SecurityManager cleanup in the ZipFS area
JDK-8344184	Remove sun.net.ResourceManager after JEP 486 integration
JDK-8344185	Remove calls to SecurityManager in sun.net.ftp
JDK-8344186	Cleanup sun.net.www.MimeTable after JEP 486 integration
JDK-8344187	Remove SecurityManager and related calls from java.instrument
JDK-8344188	Cleanup sun.net.www.protocol.jar.JarFileFactory after JEP 486 integration
JDK-8344189	Cleanup code in sun.net.www.protocol.mailto.MailToURLConnection and sun.net.smtp after JEP 486 integration
JDK-8344190	Cleanup code in sun.net.www.protocol.http and sun.net.www.protocol.https after JEP 486 integration

Issue ID	Summary
JDK-8344197	SM cleanup in java.util.concurrent
JDK-8344199	Incorrect excluded field value set by getEventWriter intrinsic
JDK-8344204	IGV: Button to enable/disable cutting of long edges
JDK-8344205	[PPC]: failing assertion: sharedRuntime_ppc.cpp:1652: cookie not found
JDK-8344213	Cleanup OpaqueLoop*Node verification code for Assertion Predicates
JDK-8344214	Remove Security Manager dependencies from jdk.crypto.mscaapi module
JDK-8344215	Remove calls to SecurityManager and doPrivileged in java.net.Socket and java.net.ServerSocket after JEP 486 integration
JDK-8344216	Remove calls to SecurityManager and and doPrivileged in java.net.Authenticator, java.net.CookieHandler, and java.net.ResponseCache after JEP 486 integration
JDK-8344217	Remove calls to SecurityManager and doPrivileged in java.net.DatagramSocket and java.net.NetMulticastSocket after JEP 486 integration
JDK-8344218	Remove calls to SecurityManager and and doPrivileged in java.net.NetworkInterface after JEP 486 integration
JDK-8344219	Remove calls to SecurityManager and doPrivileged in java.net.SocksSocketImpl after JEP 486 integration
JDK-8344220	Remove calls to SecurityManager and doPrivileged in java.net.InetAddress and sun.net.util.IPAddressUtil after JEP 486 integration
JDK-8344221	Remove calls to SecurityManager and and doPrivileged in java.net.IDN, java.net.URL, java.net.URLConnection, sun.net.util.URLUtil, and java.net.URLStreamHandlerProvider after JEP 486 integration

Issue ID	Summary
JDK-8344222	Remove calls to SecurityManager and doPrivileged in java.net.HttpURLConnection, java.net.HttpConnectSocketImpl, and javax.net.HttpURLConnection after JEP 486 integration
JDK-8344223	Remove calls to SecurityManager and doPrivileged in java.net.URLClassLoader after JEP 486 integration
JDK-8344228	Revisit SecurityManager usage in java.net.http after JEP 486 integration
JDK-8344229	Revisit SecurityManager usage in jdk.httpserver after JEP 486 integration
JDK-8344231	SecurityManager cleanup in java.lang.module and jdk.internal.module
JDK-8344233	Remove calls to SecurityManager and doPrivileged in java.net.ProxySelector and sun.net.spi.DefaultProxySelector after JEP 486 integration
JDK-8344235	Revisit SecurityManager usage in java.logging after JEP 486 and JEP 491 integration
JDK-8344236	Revisit SecurityManager usage in jdk.net after JEP 486 integration
JDK-8344239	runtime/cds/appcds/jigsaw/addmods/AddmodsOption.java fails on x64 with -Xmixed
JDK-8344247	Move objectWaiter field to VirtualThread instance
JDK-8344248	Remove Security Manager dependencies from java.security.jgss and jdk.security.jgss modules
JDK-8344250	Obsolete the DontYieldALot flag
JDK-8344252	SM cleanup in java.util classes
JDK-8344253	Test java/util/Spliterator/SpliteratorTraversingAndSplittingTest.java failed

Issue ID	Summary
JDK-8344256	Clean up obsolete code in <code>java.desktop/share/classes/sun/awt/datatransfer/DataTransferer.java</code>
JDK-8344259	Annotate <code>Float16</code> with <code>jdk.internal.ValueBased</code>
JDK-8344262	<code>Win32AttachOperationRequest</code> objects are created by using global new
JDK-8344265	RISC-V: Remove unused function <code>get_previous_sp_entry</code>
JDK-8344271	Comparison build fails due to difference in doc summary
JDK-8344275	<code>tools/jpackage/windows/Win8301247Test.java</code> fails on localized Windows platform
JDK-8344289	SM cleanup in <code>jdk.internal.util</code>
JDK-8344293	Remove empty Test files left over from JDK-8305895
JDK-8344298	Test <code>tools/sincechecker/modules/jdk.hotspot.agent/JdkHotspotAgentCheckSince.java</code> fails on platforms without <code>sa</code>
JDK-8344299	SM cleanup in <code>javax.naming</code> modules
JDK-8344300	Implement JEP 499: Structured Concurrency (Fourth Preview)
JDK-8344302	G1: Refactor <code>G1CMTask::do_marking_step</code> to use smaller wrapper methods
JDK-8344303	Remove usage of <code>URLUtil.getConnectPermission</code> from <code>sun.awt.SunToolkit</code> and <code>sun.awt.image.URLImageSource</code>
JDK-8344304	[s390x] <code>ubsan</code> : negation of <code>-2147483648</code> cannot be represented in type 'int'
JDK-8344306	RISC-V: Add <code>zicond</code>

Issue ID	Summary
JDK-8344310	Remove Security Manager dependencies from javax.crypto and com.sun.crypto packages
JDK-8344314	Revert removal of jdk.internal.java.PreviewFeature.CLASSFILE_API
JDK-8344315	Clean up sun.net.www.protocol.jrt.JavaRuntimeURLConnection after JEP 486 integration
JDK-8344319	SM cleanup in jdk.dynalink module
JDK-8344322	Improve capabilities of jpackage test lib to validate error output of jpackage
JDK-8344326	Move jpackage tests from "jdk.jpackage.tests" package to the default package
JDK-8344327	SM cleanup in jdk.unsupported ReflectionFactory
JDK-8344328	(dc) DatagramChannelImpl.blockingReceive can now synchronize on packet
JDK-8344330	Remove AccessController.doPrivileged() from jdk.charsets module
JDK-8344331	SM cleanup in java.scripting
JDK-8344336	SM cleanup of java.lang.System, Runtime, String, StackWalker
JDK-8344337	SecurityManager cleanup in java.prefs module
JDK-8344338	javax/swing/JTextArea/bug4265784.java fails on Ubuntu 24.04.1
JDK-8344346	java/net/httpclient/ShutdownNow.java fails with java.lang.AssertionError: client was still running, but exited after further delay: timeout should be adjusted
JDK-8344349	Problemlist jdk/jfr/jvm/TestVirtualThreadExclusion.java before JDK-8344199 resolved

Issue ID	Summary
JDK-8344350	Add '.gdbinit' and '.lldbinit' to file '.gitignore'
JDK-8344352	32-bit builds crash after JDK-8305895
JDK-8344355	Register corruption in MacroAssembler::lookup_secondary_supers_table_var: x86-64 only
JDK-8344356	Aarch64: implement -XX:+VerifyActivationFrameSize
JDK-8344363	FullGCForwarding::initialize_flags is called after ObjLayout::initialize
JDK-8344365	SecurityManager cleanups in java.sql and java.sql.rowset modules
JDK-8344366	Remove Security Manager dependencies from javax.net.ssl and sun.security.ssl packages
JDK-8344368	IndependenceSwingTest.java and IndependenceAWTTest.java failed: Selected text & clipboard contents differs
JDK-8344371	RISC-V: compiler/intrinsics/chacha/TestChaCha20.java fails after JDK-8343555
JDK-8344379	[s390x] build failure due to missing change from JDK-8339466
JDK-8344381	[s390x] Test failures with error: Register type is not known
JDK-8344382	RISC-V: CASandCAEwithNegExpected fails with Zacas
JDK-8344383	Include ZipArchive and JarArchive directly
JDK-8344387	RISC-V: C2: Improve encoding of LoadNKlass for compact headers
JDK-8344389	32-bit builds fail at CDS build time after JDK-8331497

Issue ID	Summary
JDK-8344393	RISC-V: Remove option UseRVVForBigIntegerShiftIntrinsics
JDK-8344394	Remove SecurityManager and related calls from java.management.rmi
JDK-8344397	Remove Security Manager dependencies from java.security and sun.security packages
JDK-8344414	ZGC: Another division by zero in rule_major_allocation_rate
JDK-8344415	Restruct jpackage utility classes
JDK-8344419	Use StaticProperty in some JDK classes
JDK-8344420	Remove Security Manager dependencies from javax.security package
JDK-8344445	MethodCounters don't need a vptr
JDK-8344446	Remove security manager dependency from module jdk.sctp
JDK-8344461	Additional cleanup in NewThreadAction
JDK-8344471	Remove SecurityManager related code from java.compiler module
JDK-8344479	Declare MetaspaceObj::operator delete to be deleted
JDK-8344524	Remove SecurityManager related code from jdk.jlink module
JDK-8344525	Fix leftover ExceptionOccurred in java.base
JDK-8344526	RISC-V: implement -XX:+VerifyActivationFrameSize
JDK-8344533	CTW: Add option to remove clinit before loading

Issue ID	Summary
JDK-8344534	Remove leftover import of java.security.AccessControlContext in JavaLangAccess
JDK-8344540	Remove superseded wildcard description from java manpage
JDK-8344549	Cleanup AccessController in sun.misc.Unsafe
JDK-8344550	Compilation error of jpackage test JPackageStringBundle.java source
JDK-8344555	SM cleanup - drop reflection filter of System.security field
JDK-8344562	Remove security manager dependency from module jdk.jdi
JDK-8344565	SM cleanup in jdk/internal and java/lang package private classes
JDK-8344568	Renaming ceil_log2 to log2i_ceil
JDK-8344569	SwingUtilities2.makelcon_Unprivileged is obsolete
JDK-8344577	Virtual thread tests are timing out on some macOS systems
JDK-8344578	Clean up left over java.security and sun.security imports in Swing classes
JDK-8344579	Clean up forward declarations and includes
JDK-8344587	Reduce number of "jdk.jpackage.internal" classes used from other packages
JDK-8344589	Update IANA Language Subtag Registry to Version 2024-11-19
JDK-8344595	State transitions in internal VirtualThread comment needs to be updated
JDK-8344607	Link Time Optimization - basic support for clang

Issue ID	Summary
JDK-8344609	Check ResourceMark nesting when allocating a GrowableArray on an alternative ResourceArea
JDK-8344611	Add missing classpath exception
JDK-8344621	ProblemList runtime/CommandLine/OptionsValidation/TestOptionsWithRanges.java
JDK-8344628	Test TestEnableJVMCIProduct.java run with virtual thread intermittent fails
JDK-8344646	The libsig deprecation warning should go to stderr not stdout
JDK-8344647	Make java.se participate in the preview language feature <code>requires transitive java.base</code>
JDK-8344652	Remove access control context text from SSLEngine and SSLSession APIs
JDK-8344654	Some client tests still expect a SecurityManager after JEP486
JDK-8344659	Some uses of GetPropertyAction were not removed from java.io and java.nio
JDK-8344664	Remove some un-used java/sun.security imports in the java.desktop module
JDK-8344667	Remove most uses of AWT Permissions from the desktop module
JDK-8344718	Test runtime/cds/appcds/jigsaw/addmods/AddmodsOption.java fails on Linuxppc64le after JDK-8344239
JDK-8344727	[JVMCI] Export the CompileBroker compilation activity mode for Truffle compiler control
JDK-8344763	cpCache print_on doesn't handle nulls
JDK-8344766	AES/CTR slow at big payloads

Issue ID	Summary
JDK-8344768	Consider removing "sun.security.krb5.autodeducerealm" system property
JDK-8344770	Switch jpackage unit tests to use JUnit5
JDK-8344773	SM cleanup in ForkJoinPool
JDK-8344782	Cleanup left over doPrivileged calls and imports in java.desktop
JDK-8344788	Specify that the access control context parameters of Subject.doAsPrivileged are ignored
JDK-8344795	Remove uses of AccessControlContext in java.desktop module
JDK-8344798	Shenandoah: Use more descriptive variable names in shPhaseTimings.cpp
JDK-8344799	Remove permissions checks from java.awt.Desktop
JDK-8344800	Add W3C DTDs and XSDs to the JDK built-in Catalog
JDK-8344804	Test serviceability/jdwp/AllModulesCommandTest.java times out after JNI check warning
JDK-8344821	Test CheckDefaultArchiveFile.java fails if classes_coh.jsa is not present
JDK-8344822	CDS BulkLoaderTest.java#dynamic fails with COH
JDK-8344824	CDS dump crashes when member_method of a lambda proxy is null
JDK-8344830	[BACKOUT] JDK-8341334: CDS: Parallel relocation
JDK-8344831	[REDO] CDS: Parallel relocation
JDK-8344841	ClassPrinter prints confusing value for null

Issue ID	Summary
JDK-8344844	ciReplay tests fail with -XX:+UseCompactObjectHeaders because CDS is disabled since JDK-8341553
JDK-8344853	Parallel: Improve comments in psParallelCompact
JDK-8344855	Remove calls to SecurityManager and doPrivileged in HTTP related implementation classes in the sun.net and sun.net.www.http packages after JEP 486 integration
JDK-8344856	Remove calls to SecurityManager and doPrivileged in sun.net.www.protocol.ftp.FtpURLConnection after JEP 486 integration
JDK-8344857	Remove calls to SecurityManager and doPrivileged in SocketExceptions and URLJarFile in the sun.net package after JEP 486 integration
JDK-8344861	Disable CheckJNICalls in tests until JDK-8344802 is fixed
JDK-8344865	SM cleanup in sun/reflect/annotation
JDK-8344867	Cleanup unneeded qualified exports to java.rmi
JDK-8344881	Problemlist java/awt/Robot/InfiniteLoopException.java on Linux
JDK-8344882	(bf) Temporary direct buffers should not count against the upper limit on direct buffer memory
JDK-8344891	Remove uses of sun.misc.ReflectUtil in java.desktop
JDK-8344894	Obsolete reference to checking permissions in java.awt.Composite
JDK-8344895	SM cleanup of module java.xml
JDK-8344896	Remove obsolete checks for AWTPermission accessClipboard

Issue ID	Summary
JDK-8344898	SM cleanup of java.base sun/util calendar, locale, cldr, and resources
JDK-8344903	Improve error handling TestJhsdbjstackPrintVMLocks.java
JDK-8344904	Interned strings in old classes are not stored in CDS archive
JDK-8344908	URLClassPath should not propagate IllegalArgumentException when finding resources in classpath URLs
JDK-8344912	Sharpen the return type of various internal methods in jdk.internal.foreign
JDK-8344913	Improve -Xlog:cds+map+oop logging for Java mirrors
JDK-8344914	OOME in several tests since JDK-6672644 - JComboBox still scrolling
JDK-8344916	RISC-V: Misaligned access in array fill stub
JDK-8344917	Fix recent NULL usage backsliding
JDK-8344923	Problem list on java/awt/Robot/ScreenCaptureRobotTest.java on macOS
JDK-8344924	Default CA certificates loaded despite request to use custom keystore
JDK-8344935	[ubsan]: javaThread.hpp:1241:52: runtime error: load of value 9831830, which is not a valid value for type 'freeze_result'
JDK-8344949	javax.security.auth.Subject.SecureSet.writeObject does not do a security check anymore
JDK-8344954	Linker tests fails on BE platforms after JDK-8340205
JDK-8344960	RISC-V: fix TestFloatConversionsVectorNaN for COH and AlignVector
JDK-8344967	Some tests in TestFill do not use the test parameter

Issue ID	Summary
JDK-8344987	Test serviceability/sa/TestJhsdbJstackPrintVMLocks.java fails: NoClassDefFoundError: jdk/test/lib/Utils
JDK-8344989	Test java/foreign/TestLinker.java failed with zero: IllegalStateException: libffi call failed with status: FFI_BAD_TYPEDEF
JDK-8344992	Remove Security Manager dependencies from java.security.cert API and implementations
JDK-8344994	Remove most uses of RuntimePermission checks in java.desktop
JDK-8345000	Remove last mentions of sun.awt.AWTPermissions
JDK-8345001	java/awt/doc-files/FocusSpec.html has SecurityManager references
JDK-8345004	[BACKOUT] GTK & Nimbus LAF: Tabbed pane's background color is not expected one when change the opaque checkbox.
JDK-8345012	os::build_agent_function_name potentially wastes a byte when allocating the buffer
JDK-8345015	Remove unused method lookup_time_t_function
JDK-8345039	IGV: save user-defined node colors to XML
JDK-8345043	[ASAN] methodMatcher.cpp report reading from a region of size 0 [-Werror=stringop-overread]
JDK-8345047	RISC-V: Remove explicit use of AvoidUnalignedAccesses in interpreter
JDK-8345050	Fix -Wzero-as-null-pointer warning in MemPointer ctor
JDK-8345052	Harden StampedLock

Issue ID	Summary
JDK-8345057	ML_KEM NamedParameterSpec constants removed by ML-DSA integration
JDK-8345058	Javac issues different error messages for the modifiers of the requires directive
JDK-8345060	Remove Security Manager dependencies from java.security.KeyStore and Identity APIs and implementations
JDK-8345065	Cleanup DomainCombiner, SubjectDomainCombiner, Subject, and PrivilegedAction specifications
JDK-8345073	Remove SecurityManager checks from sun.awt.image classes
JDK-8345074	java.net.InterfaceAddress constructor could be made private
JDK-8345075	java.lang.module.ModuleDescriptor constructor could be made private
JDK-8345102	[s390x/ppc] ShowRegistersOnAssertTest.java fails after 8343756
JDK-8345110	RISC-V: Optimize and and clean up byte reverse assembler routines
JDK-8345119	Some java/foreign tests wrongly assume aligned memory
JDK-8345120	A likely bug in StringSupport::chunkedStrlenShort
JDK-8345126	[BACKOUT] JDK-8318127: align_up has potential overflow
JDK-8345141	Remove uses of SecurityManager in ShellFolder related classes
JDK-8345142	Remove uses of SecurityManager in Printing related classes
JDK-8345143	Remove uses of SecurityManager in the java.desktop module
JDK-8345145	Display javap LineNumberTable and LocalVariableTable iff disassembled code output with -c or -v

Issue ID	Summary
JDK-8345146	[PPC64] Make intrinsic conversions between bit representations of half precision values and floats
JDK-8345148	Fix for JDK-8337317 is incomplete
JDK-8345153	Clean up SecurityManager references from jdk.compiler module
JDK-8345154	IGV: Show Parse and Assertion Predicate type as extra label
JDK-8345158	IGV: local scheduling should not place successors before predecessors
JDK-8345164	Remove residual --enable-preview in FFM tests and benchmarks
JDK-8345172	x86: Some CPU feature asserts are declared as 32-bit only
JDK-8345173	BlockLocationPrinter::print_location misses a ResourceMark
JDK-8345175	Further cleanup in java.logging and jdk.internal.logger after JEP 486 integration
JDK-8345176	Add tests to verify java.net.Socket constructors close the socket on failure
JDK-8345177	RISC-V: Add gtests for cmpxchg
JDK-8345178	RISC-V: Add gtests for narrow cmpxchg
JDK-8345179	RISC-V: Add gtests for weak cmpxchg
JDK-8345181	(ch) Windows asynchronous channels may return temporary direct buffers to the buffer cache twice (win)
JDK-8345186	Incorrect @throws doc for MemorySegment::getString
JDK-8345218	Clean out references to windows-x86 in jib profiles

Issue ID	Summary
JDK-8345219	C2: x86_64 should not go to interpreter stubs for NaNs handling
JDK-8345220	Serial: Refactor TenuredGeneration::promotion_attempt_is_safe
JDK-8345221	Replace legacy with new Provider APIs in SunNativeGSS
JDK-8345223	Remove stray doPrivileged in java.base java.net and sun.net classes after JEP 486 integration
JDK-8345224	Test runtime/cds/appcds/applications/JavacBench.java#dynamic fails after JDK-8344822
JDK-8345234	Build system erroneously treats 32-bit x86 Zero as deprecated
JDK-8345236	RISC-V: Remove revb_h_h_u and revb_h_w_u macro assembler routines
JDK-8345237	32-bit Zero builds fail with assert(has_klass_gap()) failed: precondition
JDK-8345247	Deproblemlist test/jdk/javax/swing/JRadioButton/8075609/bug8075609.java
JDK-8345248	Module name 'transitive' not accepted for requires transitive
JDK-8345259	Disallow ALL-MODULE-PATH without explicit --module-path
JDK-8345266	java/util/concurrent/locks/StampedLock/OOMEInStampedLock.java JTREG_TEST_THREAD_FACTORY=Virtual fails with OOME
JDK-8345267	Fix memory leak in JVMCIEnv dtor
JDK-8345276	Remove EA from the JDK 24 version string with first RC promotion
JDK-8345279	Mistake in javadoc of javax.sql.rowset.BaseRowSet#setBigDecimal
JDK-8345286	Remove use of SecurityManager API from misc areas

Issue ID	Summary
JDK-8345293	Fix generational Shenandoah with compact headers
JDK-8345294	test/jdk/java/lang/Thread/virtual/RetryMonitorEnterWhenPinned.java timeout with JTREG_TEST_THREAD_FACTORY=Virtual
JDK-8345296	AArch64: VM crashes with SIGILL when prctl is disallowed
JDK-8345297	test/jdk/javax/swing/Action/8133039/bug8133039.java fails in ubuntu22.04
JDK-8345302	Building microbenchmarks require larger Java heap
JDK-8345319	Fix the tag type in PoolEntry and AnnotationValue
JDK-8345323	Parallel GC does not handle UseLargePages and UseNUMA gracefully
JDK-8345324	Update comment in SourceVersion for language evolution history for changes in 24
JDK-8345325	SM cleanup of GetPropertyAction in java.base
JDK-8345327	JDK 24 RDP1 L10n resource files update
JDK-8345337	JFR: jfr view should display all direct subfields for an event type
JDK-8345339	JFR: Missing javadoc for RecordingStream::onMetadata
JDK-8345341	Fix incorrect log message in JDI stop002t test
JDK-8345346	Shenandoah: Description of ShenandoahGCMode still refers to incremental update mode
JDK-8345351	RISC-V: Rename macro-assembler routine cmpxchg_weak to weak_cmpxchg
JDK-8345353	Test for JDK-8344800 W3C DTDs and XSDs in the built-in Catalog

Issue ID	Summary
JDK-8345355	[s390x] support for z16 hardware
JDK-8345357	test/jdk/javax/swing/JRadioButton/8033699/bug8033699.java fails in ubuntu22.04
JDK-8345375	Improve debuggability of test/jdk/java/net/Socket/CloseAvailable.java
JDK-8345389	Bump missed copyright years for JDK-8336768
JDK-8345393	ProblemList java/util/concurrent/locks/StampedLock/OOMEInStampedLock.java on generic-all JTREG_TEST_THREAD_FACTORY=Virtual
JDK-8345396	Fix headers after JDK-8345164
JDK-8345397	Remove <stdio> from g1HeapRegionRemSet.cpp
JDK-8345398	Avoid redundant Properties.containsKey call in Cursor.getSystemCustomCursor
JDK-8345403	Add more randomized tests to better cover FloatingDecimal parsing
JDK-8345404	[ppc64le] ProblemList TestAllocOutOfMemory.java#large
JDK-8345405	Add JMH showing the regression in 8341649
JDK-8345414	Google CAInterop test failures
JDK-8345415	Rollback JDK-8301991 change on xmlsecurity_de.properties
JDK-8345422	Fix JNI Checker "in native method" warnings in the debug agent and debugger tests
JDK-8345424	Move FindDebuginfoFiles out of FileUtils.gmk

Issue ID	Summary
JDK-8345433	(fs) Use stream to load FileTypeDetectors in Files.probeContentType
JDK-8345438	Invalid error for return in early construction context lambda
JDK-8345447	test/jdk/javafx/swing/JToolBar/4529206/bug4529206.java fails in ubuntu22.04
JDK-8345465	Fix performance regression on x64 after JDK-8345120
JDK-8345468	test/jdk/javafx/swing/JScrollBar/4865918/bug4865918.java fails in ubuntu22.04
JDK-8345472	Fix incorrect format instruction for floating point max/min patterns
JDK-8345474	Translation for instanceof is not triggered when patterns are not used in the compilation unit
JDK-8345486	Reevaluate the classes in java.lang.classfile.components package
JDK-8345493	JFR: JVM.flush hangs intermittently
JDK-8345502	Remove doIntersectionPrivilege methods
JDK-8345503	Test EnableNativeAccessCDS.java fails with TEST_THREAD_FACTORY=Virtual
JDK-8345507	Fix build of static launcher
JDK-8345512	Remove wrapper functions for intrinsics in PQC algorithms
JDK-8345514	Should use internal class name when calling ClassLoader.getResourceAsByteArray
JDK-8345524	CHECK_FOR_FILES should properly handle directories

Issue ID	Summary
JDK-8345533	Switch ML-DSA implementation to FIPS 204 final
JDK-8345547	test/jdk/javax/swing/text/DefaultEditorKit/4278839/bug4278839.java fails in ubuntu22.04
JDK-8345565	Remove remaining SecurityManager motivated APIs from sun.reflect.util
JDK-8345566	Deproblemlist test/jdk/javax/swing/JComboBox/6559152/bug6559152.java
JDK-8345573	Module dependencies not resolved from run-time image when --limit-module is being used
JDK-8345578	New test in JDK-8343622 fails with a promoted build
JDK-8345591	[aarch64] macroAssembler_aarch64.cpp compile fails ceil_log2 not declared
JDK-8345669	RISC-V: fix client build failure due to AlignVector after JDK-8343827
JDK-8345750	Shenandoah: Test TestJcmdHeapDump.java#aggressive intermittent assert(gc_cause() == GCCause::_no_gc) failed: Over-writing cause
JDK-8345773	Class-File API debug printing capability
JDK-8345794	Backout doc change introduced by JDK-8235786
JDK-8345818	Fix SM cleanup of parsing of System property resource.bundle.debug
JDK-8345888	Broken links in the JDK 24 JavaDoc API documentation, build 27
JDK-8345944	JEP 492: extending local class in a different static context should not be allowed
JDK-8345953	JEP 492: instantiating local classes in a different static context should not be allowed

Issue ID	Summary
JDK-8345970	pthread_getcpuclid related crashes in shenandoah tests
JDK-8346017	Socket.connect specified to throw UHE for unresolved address is problematic for SOCKS V5 proxy
JDK-8346040	Zero interpreter build on Linux Aarch64 is broken
JDK-8346069	Add missing Classpath exception statements
JDK-8346128	Comparison build fails due to difference in LabelTarget.html
JDK-8346159	Disable CDS AOTClassLinking tests for JVMCI due to JDK-8345635
JDK-8346174	UMAX/UMIN are missing from XXXVector::reductionOperations
JDK-8346202	Correct typo in SQLPermission
JDK-8346457	AOT cache creation crashes with "assert(pair_at(i).match() < pair_at(i+1).match()) failed: unsorted table entries"
JDK-8346667	Doccheck: warning about missing before <h2>
JDK-8346737	GenShen: Generational memory pools should not report zero for maximum capacity
JDK-8346739	jpackage tests failed after JDK-8345259
JDK-8346831	Remove the extra closing parenthesis in CTW Makefile
JDK-8346838	RISC-V: runtime/CommandLine/OptionsValidation/TestOptionsWithRanges.java crash with debug VMs
JDK-8346847	[s390x] minimal build failure

Issue ID	Summary
JDK-8346872	tools/jpackage/windows/WinLongPathTest.java fails
JDK-8346965	Multiple compiler/ciReplay test fails with -XX:+SegmentedCodeCache
JDK-8347006	LoadRangeNode floats above array guard in arraycopy intrinsic
JDK-8347047	Cleanup action passed to MemorySegment::reinterpret keeps old segment alive
JDK-8347127	CTW fails to build after JDK-8334733
JDK-8347163	Javadoc error in ConstantPoolBuilder after JDK-8342468
JDK-8347274	Gatherers.mapConcurrent exhibits undesired behavior under variable delays, interruption, and finishing
JDK-8347289	HKDF delayed provider selection failed with non-extractable PRK
JDK-8347407	[BACKOUT] C1/C2 don't handle allocation failure properly during initialization (RuntimeStub::new_runtime_stub fatal crash)
JDK-8347498	JDK 24 RDP2 L10n resource files update
JDK-8347554	[BACKOUT] C2: implement optimization for series of Add of unique value
JDK-8347596	Update HSS/LMS public key encoding
JDK-8347605	Use spec tag to refer to IEEE 754 standard
JDK-8347646	module-info classfile missing the preview flag
JDK-8347762	ClassFile attribute specification refers to non-SE modules
JDK-8347763	[doc] Add documentation of module options for JEP 483

Issue ID	Summary
JDK-8347817	Timeouts running test/jdk/java/lang/String/concat/HiddenClassUnloading.java with fastdebug builds
JDK-8348013	[doc] fix typo in java.md caused by JDK-8347763
JDK-8348327	Incorrect march flag when building libsleef/vector_math_neon.c
JDK-8348515	Add docs for -XX:AOT* options in java man pages
JDK-8348562	ZGC: segmentation fault due to missing node type check in barrier elision analysis
JDK-8348631	Crash in PredictedCallGenerator::generate after JDK-8347006
JDK-8348658	[AArch64] The node limit in compiler/codegen/TestMatcherClone.java is too strict
JDK-8348752	Enable -XX:+AOTClassLinking by default when -XX:AOTMode is specified
JDK-8348890	Fix docs for -XX:AOT* options in java man page
JDK-8348975	Broken links in the JDK 24 JavaDoc API documentation, build 33
JDK-8349009	JVM fails to start when AOTClassLinking is used with unverifiable old classes
JDK-8349017	Update ML tests to verify against ACVP 1.1.0.38 version
JDK-8349084	Update vectors used in several PQC benchmarks
JDK-8349122	-XX:+AOTClassLinking is not compatible with jdwp
JDK-8349183	[BACKOUT] Optimization for StringBuilder append boolean & null
JDK-8349239	[BACKOUT] Reuse StringLatin1::putCharsAt and StringUTF16::putCharsAt

JFX issues

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

Issue ID	Summary
JDK-8087863	Mac: "Select All" within ListView/TreeView is handled differently depending on the useSystemMenuBar value
JDK-8091673	Public focus traversal API for use in custom controls
JDK-8183521	Unable to type characters with tilde with swiss german keyboard layout
JDK-8211234	Open-source simple test programs for FX / Swing interop
JDK-8211247	Open-source simple test programs for FX / SWT interop
JDK-8218745	TableView: visual glitch at borders on horizontal scrolling
JDK-8226911	Interpolatable's contract should be reexamined
JDK-8273743	KeyCharacterCombination for "+" does not work on US QWERTY keyboard layout
JDK-8288893	Popup and its subclasses cannot input text from InputMethod
JDK-8289174	JavaFX build fails on Windows when VS150COMNTOOLS is not set
JDK-8296387	[Tooltip, CSS] -fx-show-delay is only applied to the first tooltip that is shown before it is displayed
JDK-8297072	Provide gradle option to test a previously built SDK
JDK-8299738	ISE if Platform::exit called with fullScreen Stage on macOS 13

Issue ID	Summary
JDK-8301121	RichTextArea Control (Incubator)
JDK-8305418	[Linux] Replace obsolete XIM as Input Method Editor
JDK-8306707	Support pluggable image loading via javax.imageio
JDK-8309381	Support JavaFX incubator modules
JDK-8315873	[GHA] Update checkout and cache action to use v4
JDK-8319779	SystemMenu: memory leak due to listener never being removed
JDK-8320232	Cells duplicated when table collapsed and expanded
JDK-8323706	Remove SimpleSelector and CompoundSelector classes
JDK-8323787	Mac System MenuBar throws IOB exception
JDK-8325445	[macOS] Colors are not displayed in sRGB color space
JDK-8328629	JUnit test without a timeout value can hang indefinitely
JDK-8328828	Monkey Tester Application Part 4
JDK-8328994	Update WebKit to 619.1
JDK-8329098	Support "@1x" image naming convention as fallback
JDK-8331570	RenderPerf test: Add infinite test mode for stress-testing scenarios
JDK-8332222	Linux Debian: Maximized stage shrinks when opening another stage
JDK-8332895	Support interpolation for backgrounds and borders

Issue ID	Summary
JDK-8333374	Cannot invoke "com.sun.prism.RTTexture.contentsUseful()" because "this.txt" is null
JDK-8333919	[macOS] dragViewOffsetX/dragViewOffsetY are ignored for the dragView image
JDK-8334124	Rendering issues with CSS "text-shadow" in WebView
JDK-8334874	Horizontal scroll events from touch pads should scroll the TabPane tabs
JDK-8334900	IOOBE when adding data to a Series of a BarChart that already contains data
JDK-8334901	Style class "negative" is not always added for new BarChart data with negative value
JDK-8335218	Eclipse Config: Remove Gradle Integration
JDK-8335469	[XWayland] crash when an AWT ScreenCast session overlaps with an FX ScreenCast session
JDK-8335470	[XWayland] JavaFX tests that use AWT Robot fail on Wayland
JDK-8335548	testCookieEnabled fails with WebKit 619.1
JDK-8335630	Crash if Platform::exit called with fullScreen Stage on macOS 14
JDK-8335714	Enhance playing MP3s
JDK-8335715	Improve Direct Show support
JDK-8335934	Change JavaFX release version to 24
JDK-8336031	Create implementation of NSAccessibilityStaticText protocol

Issue ID	Summary
JDK-8336097	UserAgent Styles using lookups are promoted to Author level if look-up is defined in Author stylesheet
JDK-8336272	SizeToSceneTest: fullScreen tests fail on Ubuntu 22.04
JDK-8336277	Colors are incorrect when playing H.265/HEVC on Windows 11
JDK-8336331	Doc: Clarification in AccessibleAttribute, AccessibleRole
JDK-8336389	Infinite loop occurs while resolving lookups
JDK-8336592	Wrong type in documentation for TreeTableView
JDK-8336624	Improve Decora Shader loading for modern APIs
JDK-8336632	Update Gradle to 8.9
JDK-8336633	Update boot JDK to 22.0.2
JDK-8336798	DRT test cssrounding.html test for linear layout fails with WebKit 619.1
JDK-8336882	Convert CssStyleHelperTest to use JUnit 5
JDK-8336938	Update libFFI to 3.4.6
JDK-8336939	Update Glib to 2.80.4
JDK-8336940	Update GStreamer to 1.24.6
JDK-8336941	Update libxslt to 1.1.42
JDK-8337228	Eclipse: missing dependencies in systemTests-test project

Issue ID	Summary
JDK-8337229	Missing @Overrides in GlassSystemMenuShim
JDK-8337280	Include jdk.jobject module with JavaFX
JDK-8337281	build.gradle assumes all modules are named "javafx.\$project"
JDK-8337328	JavaFX build uses deprecated features that will be removed in gradle 9
JDK-8337481	File API: file.name contains path instead of name
JDK-8337827	[XWayland] Skip failing tests on Wayland
JDK-8338000	[macos] Remove GlassFullscreenWindow
JDK-8338016	SplitMenuButton constructors should match MenuButton
JDK-8338306	WebView Drag and Drop fails with WebKit 619.1
JDK-8338307	Additional WebKit 619.1 fixes from WebKitGTK 2.44.3
JDK-8338340	[TestBug] fix varargs parameter type warnings
JDK-8338468	[TestBug] Convert controls tests to JUnit 5
JDK-8338478	[macos] Crash in CoreText with certain strings using JDK 22 or later
JDK-8338701	Provide media support for libavcodec version 61
JDK-8338849	Update copyright header for files modified in 2024
JDK-8338886	JavaFX debug builds fail on macOS
JDK-8339068	[Linux] NPE: Cannot read field "firstFont" because "<local4>" is null

Issue ID	Summary
JDK-8339178	[macos] Swing InterOp Platform.exit() crash
JDK-8339183	[macos] Premature exit in Swing interop when last JFrame is disposed
JDK-8339212	gradle downloads x64 binary of SWT on Linux/aarch64
JDK-8339236	Suppress removal warnings for Security Manager methods in iOS sources
JDK-8339247	Create release notes for JavaFX 23
JDK-8339335	set number of parallel jobs when building webkit
JDK-8339505	Enable parallel compilation of native code on macOS
JDK-8339508	RenderPerf Test Application
JDK-8339510	[TestBug] Convert system tests to JUnit 5
JDK-8339511	[TestBug] Convert Non parametrized base tests to JUnit 5
JDK-8339512	[TestBug] Convert graphics tests to JUnit 5
JDK-8339513	[TestBug] Convert fxml tests to JUnit 5
JDK-8339515	[TestBug] Convert web tests to JUnit 5
JDK-8339517	Add --enable-native-access flag when running tests
JDK-8339550	Enable javac lint options for tests
JDK-8339603	Seal the class hierarchy of Node, Camera, LightBase, Shape, Shape3D
JDK-8339726	Remove pausing code (used for testing) from AbstractPrimaryTimer

Issue ID	Summary
JDK-8340003	Bump minimum JDK version for JavaFX to JDK 22
JDK-8340005	Eliminate native access calls from javafx.swing
JDK-8340208	Additional WebKit 619.1 fixes from WebKitGTK 2.44.4
JDK-8340405	JavaFX shutdown hook can hang preventing app from exiting
JDK-8340442	Enable SwingNodePlatformExitCrashTest after JDK-8340849 is fixed
JDK-8340829	Generated API docs should clearly identify EA builds
JDK-8340849	[macos] Crash when creating a child window of a JavaFX window after Platform::exit
JDK-8340850	Wrong bug ID listed as reason for skipping SwingNodePlatformExitCrashTest
JDK-8340852	ScrollPane should not consume navigation keys when it doesn't have direct focus
JDK-8340954	Add SECURITY.md file
JDK-8340980	Cannot build on Windows ARM
JDK-8340982	[win] Dead key followed by Space generates two characters instead of one
JDK-8341010	TriangleMesh.vertexFormat Property default value is wrong
JDK-8341090	Remove support for security manager from JavaFX
JDK-8341164	Update boot JDK to 23
JDK-8341167	Update Gradle to 8.10.2

Issue ID	Summary
JDK-8341372	BackgroundPosition, BorderImage, BorderStroke, CornerRadii should be final
JDK-8341418	Prism/es2 DrawableInfo is never freed (leak)
JDK-8341440	ScrollPane: no immediate effect changing fitWidth/fitHeight
JDK-8341514	Add reducedMotion and reducedTransparency preferences
JDK-8341532	[testbug] Mark QPathTest as unstable on Linux
JDK-8341686	FX: Update copyright year in docs, readme files to 2025
JDK-8341687	Memory leak in TableView after interacting with TableMenuButton
JDK-8341920	Intermittent WebKit build failure on Windows generating PDB files in 619.1
JDK-8342233	Regression: TextInputControl selection is backwards in RTL mode
JDK-8342453	Remove calls to doPrivileged in javafx.graphics/com.sun.javafx.tk
JDK-8342454	Remove calls to doPrivileged in javafx.graphics/com.sun.glass
JDK-8342456	Remove calls to doPrivileged in javafx.graphics/other
JDK-8342457	Remove calls to doPrivileged in swing
JDK-8342459	Remove calls to doPrivileged in javafx.base
JDK-8342460	Remove calls to doPrivileged in javafx.web
JDK-8342461	Remove calls to doPrivileged in javafx.web/{android,ios}
JDK-8342462	TextAreaSkin: remove USE_MULTIPLE_NODES

Issue ID	Summary
JDK-8342627	Create Eclipse project files for jdk.jsobject
JDK-8342703	CSS transition is not started when initial value was not specified
JDK-8342911	Remove calls to doPrivileged in controls
JDK-8342912	Remove calls to doPrivileged in fxml
JDK-8342913	Remove calls to doPrivileged in media
JDK-8342914	Remove calls to doPrivileged in swt
JDK-8342917	GHA: Intermittent build failure on Linux while downloading ant
JDK-8342992	Security manager check should not use deprecated methods
JDK-8342993	Remove uses of AccessController and AccessControlContext from JavaFX
JDK-8342994	Remove security manager calls in com.sun.javafx.reflect
JDK-8342997	Remove use of System::getSecurityManager and SecurityManager from JavaFX
JDK-8342998	Remove all uses of AccessControlException
JDK-8343196	Add build property to identify experimental builds of JavaFX
JDK-8343336	Add persistentScrollBars preference
JDK-8343398	Add reducedData preference
JDK-8343630	Pass AccessControlContext to/from WebKit as opaque object

Issue ID	Summary
JDK-8343646	Public InputMap (Incubator)
JDK-8343760	GHA: macOS / aarch64 builds depend on Xcode 14 which will be removed
JDK-8344067	TableCell indices may not match the TableRow index
JDK-8344111	Remove obsolete permission check methods from javafx.graphics
JDK-8344114	Remove obsolete permission check methods from Font classes
JDK-8344155	Add missing @Override annotation to GIFImageLoader2
JDK-8344372	Setting width for TRANSPARENT Stage → gtk_window_resize: assertion 'height > 0'
JDK-8344443	Deprecate FXPermission for removal
JDK-8344899	Map RT-nnnn bug IDs to JDK-mmmmmmm in JavaFX sources
JDK-8344906	Simplify Java version parsing in the build file
JDK-8345063	Centralize version number of the Gradle build file
JDK-8345127	Add --sun-misc-unsafe-memory-access=allow when running tests until JDK-8334137 is fixed
JDK-8345136	Update JDK_DOCS property to point to JDK 23 docs
JDK-8345188	Support tree-structural pseudo-classes
JDK-8345937	Update JUnit to 5.11.3
JDK-8346222	SwingNodePlatformExitCrashTest fails with JUnit 5.11.3

Issue ID	Summary
JDK-8346227	Seal Paint and Material
JDK-8346228	Update GStreamer to 1.24.10
JDK-8346229	Update Glib to 2.82.4
JDK-8346693	Update copyright header for files modified in 2024
JDK-8347305	RichTextArea Follow-up
JDK-8347362	RichTextArea Demo Apps Build Script
JDK-8347715	RichTextArea Follow-up: Minor Bugs
JDK-8347752	Running RichTextArea demos via ant on JDK 24 prints warnings
JDK-8348287	Version number mistakenly updated to 25 in jfx24 branch

6. Updates to Third Party Libraries

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

Library	Full name	New Version	Module	JBS
CLDR	Unicode Common Locale Data Repository	46.0	core-libs	JDK-8333584
DTDs	W3C DTDs	1.1	xml	JDK-8344801
Glib	Glib	2.82.4	javafx.media	JDK-8346229
GStreamer	GStreamer	1.24.10	javafx.media	JDK-8346228
ICU4C	IBM International Components for Unicode(ICU4C)	74.2	javafx.web	JDK-8324326
ICU4J	ICU4J	76.1	core-libs	JDK-8319992
libFFI	libFFI	3.4.6	javafx.media	JDK-8336938
libjpeg	The Independent JPEG Group's JPEG software	9f	javafx.graphics	JDK-8324233
libxml2	libxml2	2.12.7	javafx.web	JDK-8332539

Library	Full name	New Version	Module	JBS
libxslt	libxslt	1.1.42	javafx.web	JDK-8336941
PC/SC Lite	PC/SC Lite	2.3.0	security-libs	JDK-8331958
PipeWire	PipeWire	0.3.68	javafx.graphics	JDK-8326712
PKCS#11	PKCS#11 Cryptographic Token Interface	3.1	security-libs	JDK-8331959
SLEEF	SIMD Library for Evaluating Elementary Functions	3.6.1	hotspot	JDK-8329816
Unicode Character Database	Unicode Character Database	16.0.0	javafx.base	JDK-8301121
Unicode Data Files	Unicode Data Files	16.0.0	core-libs	JDK-8339568
WebKit	WebKit	619.1	javafx.web	JDK-8328994
XSDs	W3C XSDs	1.1	xml	JDK-8344801

7. Upgrading to the New Version

To keep your Liberica JDK up-to-date and secure, always upgrade to the newest available version once it is released. To upgrade, install the new version over the previous one. For the installation instructions, see [Liberica JDK Installation Guide](#).



Liberica JDK 24+37
Release Notes

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