

Liberica Native Image Kit 23.1.6+1 (21.0.6+10) Release Notes



Liberica NIK
21.0.6
January, 2025

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1. Introduction

This document provides information about Liberica NIK release.

This particular version of Liberica NIK 23.1.6+1 is based on Liberica JDK 21.0.6+10.

**Note:**

For more information about Liberica JDK release, see [Liberica JDK Release Notes](#).

[Liberica Native Image Kit](#) is a utility Based on [GraalVM Open Source](#) that is capable of converting your JVM-based application into a fully compiled native executable ahead-of-time under the closed-world assumption with an almost instant startup time.

Liberica NIK supports the following platforms:

- Linux x86_64 (glibc)
- Linux Alpine x86_64 (musl)
- Linux AArch64 (glibc)
- Linux Alpine AArch64 (musl)
- Mac OS x86_64
- Mac OS AArch64
- Windows x86_64

Liberica NIK distribution

Liberica NIK is distributed as .apk, .deb, .dmg, .msi, .pkg, .rpm, .tar.gz, and .zip packages. Please [select the most appropriate](#) for your purposes.

2. What's New

This release contains the following updates and new features.

Notable Issues

This release does not contain any notable issues. For the list of Liberica JDK notable issues, see [Liberica JDK Release Notes](#)

Language and framework versions

Liberica NIK 23.1.6 supports the following languages and frameworks:

Component	Version
LLVM	16.0.1 (GraalVM CE Native 23.1.6)
Python	3.10.8 (GraalVM CE Native 23.1.6)
Node.js	18.20.4
Java	Liberica JDK 21.0.6+10
Java Script	GraalVM JavaScript (GraalVM CE Native 23.1.6)
R	4.0.3 (FastR)
TruffleRuby	23.1.6 (Ruby 3.2.2)

Component	Version
Native Image	GraalVM version 23.1.6 (Liberica JDK 21.0.6+10, LTS)
Wasm	WebAssembly (GraalVM CE Native 23.1.6)

3. Known Issues

This release does not contain any known issues. For the list of Liberica JDK known issues, see [Liberica JDK Release Notes](#).

4. CVEs

This is the list of the security issues fixed in this release. CVSS scores are provided using the CVSS version 3.1 scoring system.

CVE ID	CVSS score	Component	Module	Attack Vector	Complexity	Privileges	User Interaction	Scope	Confidentiality	Integrity	Availability
CVE-2025-21502	4.8	hotspot	compiler	network	high	none	none	unchanged	low	low	none

5. Resolved Issues

Liberica NIK issues

This is the list of Liberica NIK issues fixed in this release.

Issue ID	Summary
GR-53718	Add missing ImportValue in CanonicalizeLocaleList operation.
GR-53718	Add regression test.
GR-53718	Handle long values larger than int32 in JSToInt32Node.
GR-53718	Work around DSL evaluation order issue with <code>@CachedLibrary(value="args[0]").</code>
GR-53724	Add regression test.
GR-53724	Lexer: Check for missing exponent and improve error message for missing start digit.
GR-53727	Add regression tests.
GR-53897	Add regression test.
GR-54238	Fix <code>this</code> frame slot access via <code>super()</code> in arrow function.
GR-56524	Correctly handle source array transitions in <code>%TypedArray%.prototype.set</code> .
GR-56550	Fix sorting contiguous int and double arrays with holes at the end.

Issue ID	Summary
GR-58501	Backport to 23.1: Make js.webassembly option stable.
GR-58647	Backport to 23.1: GraalJSScriptEngine: NPE when setting empty engine bindings (#840).
GR-58687	Add regression test for Polyglot.eval returning a java.lang.String.
GR-58687	Fix missing return value conversion in Polyglot.eval[File].
GR-58724	Backport to 23.1: Fix missing return value conversion in Polyglot.eval[File].
GR-58963	Backport to 23.1: Make js.load option stable and allowed in sandboxed mode.
GR-59078	Backport to 23.1: Broken for await of in the body of a module
GR-59105	Backport to 23.1: GC does not work on WASM modules.
GR-59334	Backport to 23.1: Handle mixing overloaded operators with non-numeric primitives.
GR-59461	Backport to 23.1: Correction of the handling of long and foreign values.
GR-59520	Backport to 23.1: Ensure missing number exponent results in early SyntaxError.
GR-59604	[GR-59605] [GR-59606] [GR-59607] [GR-59608] [GR-59609] [GR-59610] [GR-59611] [GR-59612] [GR-59613] [GR-59614] [GR-59615] [GR-59616] [GR-59617] [GR-59618] Backport multiple PRs to 23.1.
GR-59605	Backport to 23.1: Do not pass SafeInteger to NumberFormatter.
GR-59606	Backport to 23.1: Internal array should not start with a hole after removeRangeHoles().

Issue ID	Summary
GR-59607	Backport to 23.1: Do not read array type before ToArrayIndex().
GR-59608	Backport to 23.1: Correction of the handling of very large RegExp lastIndex values.
GR-59609	Backport to 23.1: Fix handling of large bits in BigInt.asUintN and asIntN.
GR-59610	Backport to 23.1: Improve TypedArray.prototype.toSorted,sort.
GR-59611	Backport to 23.1: Avoiding a potential internal error in addRange[Grow]().
GR-59612	Backport to 23.1: Fix this frame slot access via super() in arrow function.
GR-59613	Backport to 23.1: Do not use SimpleFormatter in Intl.ListFormat.prototype.formatToParts().
GR-59614	Backport to 23.1: Correctly handle source array transitions in %TypedArray%.prototype.set.
GR-59615	Backport to 23.1: Fix sorting contiguous int and double arrays.
GR-59616	Backport to 23.1: Avoiding a potential ArrayIndexOutOfBoundsException in addRangeGrow().
GR-59617	Backport to 23.1: Do not use blockwise splice when the new length exceeds Integer.MAX_VALUE.
GR-59618	Backport to 23.1: Do not use BigDecimal when comparing a huge BigInt and a Number.
GR-59636	Backport to 23.1: Make js.locale option stable and allowed in sandboxed mode.

6. Upgrading to the New Version

To keep your Liberica NIK 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 NIK Installation Guide](#).



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