

Zulu Mission Control

Release Notes

Zulu Mission Control 7.1.0.65

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Overview

Zulu® Mission Control (ZMC) is a fully-tested build of [JDK Mission Control](#) open-sourced by Oracle and managed as a project under the OpenJDK umbrella.

Community builds of Zulu Mission Control are free to [download](#) and use without restrictions.

Commercial support for Zulu Mission Control is included into every [Zing](#) and [Zulu Enterprise](#) subscription.

Zulu Mission Control supports Java runtimes from JDK 8, JDK 11, and JDK 13.

What's New

The ability to collect Heap Dump data for analysis was introduced. This is a new feature that can be useful in troubleshooting memory leaks (detection and debugging) in the user application code. See the Dump Heap option and the "JOverflow" dashboard information in the ZMC User Guide for more details.

A new Zing-specific page ("Zing Live Objects") was added to the "Automated Analysis Results" > "Memory" section. Now you can identify possible memory leaks in Java applications by using information about reference statistics between various types of objects in the Java heap.

Resolved Issues

The following table lists Zulu Mission Control issues resolved in the January 24, 2020 release of Zulu Mission Control.

January 2020 List of Issues Resolved

Patch ID in OpenJDK Bug DB	Synopsis
JMC-3338	Adds simple visualization of loaded native libraries.
JMC-4057	Flame graph view delivered as experimental plug-in.
JMC-4466	Fix the hide thread functionality in Windows and JfrThreadsPageTest uitest failures.
JMC-4466	Hide thread directly from Thread graph context menu.
JMC-4469	Adding a page from properties view.
JMC-4613	Thread name striked out.

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JMC-4645	Size distribution chart for File/Socket I/O pages.
JMC-5002	Put the JVM Start Time in perspective.
JMC-5327	Using HdrHistograms to visualize latencies.
JMC-5473	Quick search for Automated Analysis Result Table.
JMC-5499	Add XFlagChanged events to JVM Internals Page.
JMC-5640	Heap Usage after GC Chart.
JMC-5657	Start using JaCoCo for code coverage.
JMC-5701	GC stall rule never reports OK result.
JMC-5706	JavaBlocking rule should report total block times.
JMC-5768	Add frequency (Hz) support in UnitLookup.
JMC-6082	JOverflow does not handle large heap dumps well.
JMC-6115	Use Jemmy builds from Maven Central.
JMC-6171	(Mac OSX) FileDialog.setfilterIndex() doesn't work as expected.
JMC-6211	Restore Defaults button doesn't revert username and password in Preferences.
JMC-6223	Visualize the PID from the VM information event.
JMC-6250	Updated splash for JMC 7.1 EA.
JMC-6252	Method Profiling rule appears to be taking forever to evaluate.
JMC-6260	Fix up documentation.
JMC-6267	Removing the need for NON-NLS tags from dedicated test bundles.
JMC-6274	Add Eclipse 2018-12 and 2019-03 target platforms.

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JMC-6274	Fix PluginTest uitest failure after 2019-03 target platform addition.
JMC-6277	Supporting new JavaFX 12 events (also fixing various warnings and mounting optional pages in better places).
JMC-6313	Exit menu item alternates visibility in "File" dropdown menu.
JMC-6314	Default JMC binaries for Linux reference odd "-vm ../../bin".
JMC-6324	Values in Method Profiling rule result text not correct when filtering.
JMC-6327	Updating version to 7.1.0.
JMC-6333	Default JMC binaries should not hardcode -vm /usr/bin/java.
JMC-6334	Rectifying typo in method name.
JMC-6367	Improve Thread graph tooltip.
JMC-6370	JMC build fails with OpenJDK 8 due to missing javafx packages in org.openjdk.jmc.javafx.osgi.
JMC-6376	Upgrading Maven build tools.
JMC-6377	Cleaning up warnings.
JMC-6397	InMemoryCredentials should not implement Serializable.
JMC-6408	Backing out changes part of JMC-6409.
JMC-6408	Cleaning up some around the MBean Operation wrapping.
JMC-6408	Fixing argument order of the factory method to match that of the constructor.
JMC-6409	Cleaning out unnecessary dependencies.
JMC-6418	Possible null dereference in LocalJVMToolkit.
JMC-6421	Small correction to README to make it simpler to copy past for building JMC.

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JMC-6429	Upgrade to ASM 7.1.
JMC-6442	Transform sampledThread attribute to eventThread attribute for NativeMethodSample events.
JMC-6444	Upgrading to fix-info-plist 1.5.
JMC-6454	Upgrade to Tycho 1.4.0.
JMC-6455	Building source jars when building core.
JMC-6456	Fix name of JDK Flight Recorder feature.
JMC-6460	Provide simple mechanism for building JMC under Docker.
JMC-6461	Cleaner versioning information when not embedding a JDK.
JMC-6468	Rule for detecting unsupported JDK version.
JMC-6480	Fixing the GC Locker rule.
JMC-6484	"Recent Files" sub-menu not populated on startup.
JMC-6492	Add unit support for jdk.jfr.Frequency.
JMC-6505	Cannot run JMC on JDK 8 by default.
JMC-6512	Competing CPU load rule should take overall load into account.
JMC-6513	Explicitly setting compiler level to JDK 8.
JMC-6514	Upgrading to Eclipse 2019-06.
JMC-6518	Fix formatting of some notes in the Start Flight Recording wizard.
JMC-6519	Set a correct default destination file for flight recordings in IDE mode.
JMC-6520	Removing the old JDK version rule.
JMC-6524	Rename Launcher files and exclude spaces.

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JMC-6537	Autoboxing rule is slow.
JMC-6541	Switching to more compact data format for the flame graph json, also updating to new version of the flame graph library (JMC-6530).
JMC-6544	Allow FlightRecordingSupportRule to run even with an unknown Java version.
JMC-6546	Fixing the update sites in JMC 7.1.0.
JMC-6548	Allow multiple java agents in jvm argument rule check.
JMC-6553	Update error message when JFR is not available.
JMC-6555	Convert JOverflow plugin to SWT.
JMC-6556	Remove static modifier for struct map in TypeManager.
JMC-6557	Thread lanes on Threads page are not persisted.
JMC-6558	Bringing back agent changes from hirt's GitHub fork.
JMC-6559	Fix typos in Spotbugs exclude.
JMC-6561	update Eclipse 4.8 in Prerequisites of update site landing page.
JMC-6564	Add distribution management section for release versions.
JMC-6582	ItemTreeBuilder is slow and not interruptible.
JMC-6584	Include Flame View by default.
JMC-6587	IncreasingLiveSetRule triggers too often.
JMC-6589	Bundle the d3 library for flame charts with JMC.
JMC-6593	Flame graphs should be rendered starting with the thread roots first by default.
JMC-6594	Fix Eclipse project names.
JMC-6595	Add Eclipse 2019-09 target definition.

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JMC-6596	Remove extra text in platform-definition-photon.
JMC-6600	Making JOverflow part of the core distribution.
JMC-6602	Release splash.
JMC-6603	Changing core over to the release version.
JMC-6619	Updating the thirdparty license to include notices for the js libraries.
JMC-6621	Infinite loop in parser when file has event size 0.
JMC-6621	Removed line from parser.
JMC-6622	Correcting landing page information.
JMC-6629	jmc.product merge failure during jmc 7.1.0 branching.
ZMC-34	Need to change default storage dir for app data.