

Quality Outreach Report March 2022

Quality Outreach Report Introduction

The [first Quality Report](#) was published in September 2015. Our initial intention was to provide a report every six months. We now release a Feature Release every 6 months so we have decided to publish a Quality Outreach Report every three months. The [previous report](#) was issued in December 2021, the next report is due in June 2022.

1.0 FOSS Projects participating in the Quality Outreach program

We now have **175** FOSS Projects of which 166 and their developers are listed on the Quality Outreach [Wiki](#) page.

All FOSS Projects receive regular updates when Early Access (EA) builds become available, they are encouraged to test and report back any issues they find during their testing.

2.0 Bugs logged since January 2022

Developers from **4** of the **175** participating projects filed **9** new issues in the JDK Bug System in the last three months, thank you !

Priority	Fixed	Open	Duplicate	Not an Issue	Won't fix	Total
P1	0	0	0	0	0	0
P2	0	0	0	0	0	0
P3	0	2	0	0	0	2
P4	6	1	0	0	0	7
Total Unique Issues	6	3	0	0	0	9

The table above lists the number of bugs logged in total - **9**, of which **2** were P3 and **7** were P4 bugs.

Component	P1	P2	P3	P4	Total
client-libs	0	0	1	0	1
core-libs	0	0	0	2	2
hotspot	0	0	1	0	1
tools	0	0	0	5	5
Total Unique Issues	0	0	2	7	9

The table above lists the number of bugs logged by Component. Total **9** Bugs were found in **4** component areas.

2.1 FOSS Projects logging significant bugs

The following Projects have submitted bug reports in the last three months and deserve special mention:

- Apache Ant
- Apache PDFBox
- JaCoCo
- JUnit5

2.2 Overall Summary of bugs filed by FOSS Projects since October 2013

Priority	Fixed	Open	Duplicate	Not an Issue	Incomplete	Won't fix	Can't Reproduce	Other	Total
P1	13	0	0	0	0	0	0	0	13
P2	67	0	10	7	0	0	4	2	90
P3	136	16	28	22	3	7	6	3	222
P4	61	46	15	14	4	7	5	5	157
P5	3	0	1	0	0	0	0	0	4
Total Issues	280	62	54	43	7	14	15	10	486

3.0 FOSS activity on JDK 18 Early Access Builds - Bugs logged from January 2022 to General Availability

Priority	Fixed	Open	Duplicate	Not an Issue	Total
P1	0	0	0	0	0
P2	0	0	0	0	0
P3	0	0	0	0	0
P4	0	1	0	0	1
Total Unique Issues	0	1	0	0	1

3.1 Testing Early Access builds of JDK 18 - list of FOSS Projects and their feedback

	Project	Comments
1	Apache Ant	Ant passes with 18-ea+34-2083.
2	Apache Derby	Derby builds on 18-ea+33-2077.
3	Apache Johnzon	Passes on JDK EA 18 b23.
4	Apache Lucene	Will update the JDK 18 candidate soon. Up to now we have not found serious issues.
5	Apache MyBatis	Pass on JDK 18 GA.
6	Apache PDFBox	PDFBox reported JDK-8277574.
7	Apache Tomcat	Builds and tests on JDK 18+36-2087 / Linux x86_64 and aarch64!
8	Apache Wicket	Builds and tests on JDK 18+36-2087 / Linux x86_64 and aarch64!
9	Apache Zookeeper	Tests pass on 18+36-2087.
10	BNYM Code Katas	No issue to report on 18+36-2087.
11	Burningwave	For Burningwave Core all tests are green with build 20.
12	Byte Buddy	Reported JDK-8277510, fixed in 18EA b26.
13	Debezium	CI jobs verifying that all looks good on JDK 18.
14	Eclipse Collections	Eclipse Collections now build with JDK 18 EA.
15	Elasticsearch	Elasticsearch passes on JDK 18 EA build 27.
16	FXGL	FXGL passes on JDK 18 EA build 27.
17	Hibernate ORM	Version 5.6 & Version 6.0 tested against JDK 18 GA (RC!) , OK!
18	Hibernate Validator	Versions 7.0 & Versions 8.0 tested against JDK 18 GA (RC!) , OK!
19	Hibernate Search	Version 6.1 & Version 6.2 tested against JDK 18 GA (RC!) , OK!
20	Hibernate Reactive	Version 1.1 tested against JDK 18 GA (RC!) , OK!
21	JUnit	JUnit 5.9-SNAPSHOT builds fine on JDK 18 EA b25.
22	Karate	Green for all versions, including JDK 18 EA.
23	Micrometer	Pass on 18 EA b26.
24	Renaissance	Renaissance passes with 18-ea.
25	RxJava	RxJava 3.1.3: JDK 18-b36, OK!
26	Vaadin	We have been actively testing with the newly released JDKs, now JDK 18 EA 15 is good to go with the Vaadin products.
27	Yupiiik Batch	Yupiiik Batch (baseline on 17) passes on JDK 18 EA.
28	Yupiiik uShip	Yupiiik uShip (baseline on 11) passes on JDK 18 EA.

4.0 FOSS activity on JDK 19 Early Access Builds - bugs logged from January 2022 to till date

Priority	Fixed	Open	Duplicate	Not an Issue	Total
P1	0	0	0	0	0
P2	0	0	0	0	0
P3	0	1	0	0	1
P4	3	0	0	0	3
Total Unique Issues	3	1	0	0	4

The following Projects have submitted bug reports against JDK 19 Early Access builds :

- Apache Ant
- JaCoCo
- JUnit

4.1 Testing Early Access builds of JDK 19 - list of FOSS Projects and their feedback

	Project	Comments
1	Apache Ant	Ant passes with Java 19 build 19-ea+8-441.
2	Apache Derby	Derby builds and tests cleanly against build 19-ea+11-661.
3	Apache Johnzon	No issue to report on 19-ea+15-942.
4	Apache Tomcat	Build and tests pass successfully with JDK 19-ea+18-1211 on both Linux x86_64 and aarch64!
5	Apache Wicket	Build and tests pass successfully with JDK 19-ea+18-1211 on both Linux x86_64 and aarch64!
6	Apache Zookeeper	Tests pass on 19-ea+11-661.
7	BNYM Code Katas	No issue to report on 19-ea+15-942.
8	Hibernate ORM	Version 6.0 tested against JDK 19 EA15.
9	Hibernate Validator	Versions 7.0 and 8.0 tested against JDK 19 EA15.
10	Hibernate Search	Version 6.2 tested against JDK 19 EA15.
11	Hibernate Reactive	Version 1.1 tested against JDK 19 EA15.
12	Renaissance	Renaissance passes with 19-ea.
13	RxJava	RxJava 3.1.3: JDK 19-b11, lot of false failure due to Gradle.

5.0 Java 18 is now available!

See [The Arrival of Java 18](#) post.