



Open JDK Quality Team (FOSDEM)

David Herron
Staff Engineer
Sun Microsystems
Java SE SQE



Java Quality at Sun

- Quality permeates every team
 - > Engineering: Unit & Regression tests, Nightly testing
 - > Conformance: JCK and other TCK's
 - > Performance: Benchmarking; analysis
 - > Quality Engineering: Product and Functional testing

The JCK and other TCK's

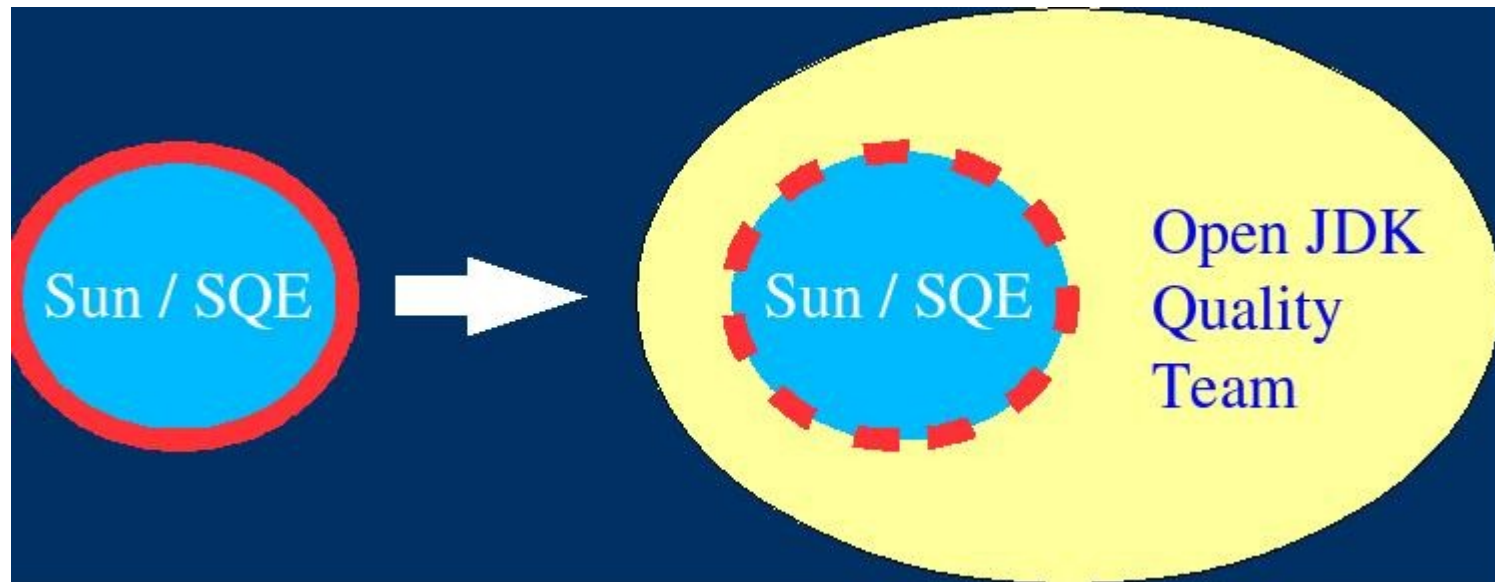
- Conformance testing is peculiar
- Each JSR must produce conformance tests that are either its own TCK or integrated to the platform TCK
- The JCK is the platform TCK
- It's the purpose of the test, specification conformance, that distinguishes conformance tests from others is

Sun's Java SE quality team

- About 100 engineers split between authoring test suites, test tools and performing execution
- Responsible for quality in both the “feature” and “update” releases
- Produce test coverage as new features or bug fixes are developed
- We test the platform by writing applications that are tests
- At least 34324 tests

Opening Java Quality

Java SE SQE will lead the Java Quality Community in defining and driving Java platform quality to increase customer satisfaction and adoption.



Open JDK Quality Projects

- Publish test spec documents, and taking feedback
- Publish JDK quality metrics
- Smoke test of Open JDK contributions
- White papers on Open JDK testing
- Possible open source test suite(s)
- Possible open sourcing test tools
- Possibly another contest

Why contribute to Java Quality

- It's the platform on which Java applications execute
- Higher quality Java implementations mean your application stands a better chance of executing well
- Contributions to Java quality thus will improve your future experience with running Java applications