GraalVM Advisory Board April 2024 meeting

Date

11 April, 2024

Participants

Aleksei Voitylov (BellSoft), Alina Yurenko (Oracle), Brian Clozel (Spring), Bruno Caballero (Microdoc), Johan Vos (Gluon), Max Rydahl Andersen (Red Hat), Michael Simons (Neo4j), Mohamed Ez-Zarghili (Oracle), Paul Hohensee (Amazon), San-Hong Li (Alibaba), Sergio del Amo Caballero (Object Computing), Thomas Wuerthinger (Oracle), Volker Simonis (Amazon)

The Agenda

- Sanhong(Alibaba)
  - Just a quick update: This PR (Support Java agent instrumentation in native image) is planned to be reviewed soon(feedback from Vojin). For your info - the corresponding OpenTelemetry agent update is already submitted here (in opentelemetry-java-instrumentation project): OpenTelemetry agent adaption for GraalVM native image, which is relying on the changes of GraalVM native image.
    - Alina: Need a review; From the Graal team Vojin is working on it
    - note: premain: Java agent is loaded before main class starts.
  - Question about Oracle GraalVM and GraalVM CE: Oracle GraalVM is downstream distribution of CE? - sounds FAQ here didn't explicitly say that. If one feature is merged into the GraalVM CE, when will it be released in Oracle GraalVM?
    - Thomas: yes, Oracle GraalVM is a downstream distribution of GraalVM CE
    - Updates in CE become available in Oracle GraalVM almost immediately in dev/EA builds
- Paul Hohensee, Volker Simonis (Amazon)
  - GraalVM and Truffle open source governance, especially LTS releases. GraalVM, especially the compiler and native image features, when

incorporated into OpenJDK, is tightly bound to OpenJDK versions. It is our understanding that the Graal project is moving to the OpenJDK policy of supporting only the latest releases. Even if that's not entirely the case, a formal open source governance model is needed. Wholesale adoption of the OpenJDK model is one possibility. In that case, GraalVM CE would be a source code project with downstream distros, just as is OpenJDK. Would also mean formally abandoning multi-release component compatibility (de-facto already true), as OpenJDK did when it abandoned the Hotspot Express model.

- Thomas: in general we should be able to follow the OpenJDK approach
- Question: Who should be maintaining 17 in the future, should that be a community committer?
  - Paul: OpenJDK has Authors, Committers, and Reviewers for each OpenJDK Project. Each Project has a lead, who delegates to others. So, there is a JDK Updates project. Rob McKenna is the project lead, but he delegates support for specific releases to Maintainers. E.g., Andrew Haley is the Maintainer for JDK 11. See https://openjdk.org/projects/jdk-updates/
  - Thomas: long-term a part of the issue will be resolved as we will drop the dependency on LabsJDK
  - There should also be a meeting to discuss this (backports/governance)
- Paul: adopt OpenJDK bylaws, including e.g, JEP and JBS?
  - our current version of JEPs: https://github.com/orgs/oracle/projects/6, https://openjdk.org/jeps/0
  - bylaws could be helpful as well. https://openjdk.org/bylaws, https://openjdk.org/census, https://openjdk.org/legal/
  - Question: does OCA apply?
    - Alina: yes, OCA applies
  - Paul: can use the OpenJDK github repo and bot infrastructure, ditto Skara
  - Paul: OpenJDK: you need two reviewers and either being a committer or having a sponsor who is a committer. See https://openjdk.org/contribute/, https://openjdk.org/sponsor/, https://openjdk.org/guide/
- Vulnerabilities group
  - We started this in the past
  - send the agreement to Volker, Aleksei (BellSoft)

- Max R. Andersen, Red Hat/Quarkus

    - Concerns about GraalVM default download different from all other native images
        - build init defaults and compression/vectorization differences
            - Thomas: build init defaults — shouldn't be differences
            - in general there shouldn't be major differences between distros
                - could be a minimal TCK (that would also help verify backports)
            - to-do: check re Graal SDK & SVM on Maven (license)
                - we should be able to maintain the SDK
- Thomas: We are working on a project to improve the Serial GC, particularly in terms of RSS.