GraalVM Advisory Board November 2021 Meeting

Date

December 2nd, 2021

Participants

Alan Hayward (ARM), Aleksei Voitylov (BellSoft), Alina Yurenko (Oracle), Bruno Caballero (Microdoc), Chris Seaton (Shopify), Eric Sedlar (Oracle), Gilles Duboscq (Oracle), Iván López (OCI), Jason Greene (Red Hat), Johan Vos (Gluon), Nik Vangerow (Twitter), Paul Hohensee (Amazon), San-Hong Li (Alibaba), Sébastien Deleuze (VMware), Shaun Smith (Oracle), Thomas Wuerthinger (Oracle), Uma Srinivasan (Twitter)

Discussion items

- Alina Yurenko (Oracle): some of the project updates
  - 21.3 went live: https://medium.com/graalvm/graalvm-21-3-is-here-java-17-native-image-performance-updates-and-more-ac4cbafcfc05
  - Upcoming updates: New user-friendly build output for Native Image: https://github.com/oracle/graal/issues/3955
  - Multiple community contributions on GitHub (https://github.com/oracle/graal/pulls?q=is%3Apr+is%3Amerged and other repos)
  - We are working on this year's edition of Community Survey, it will go live soon
- Aleksei Voitylov (BellSoft): An update on their current work towards getting AWT/Swing fully working with GraalVM, and future plans
  - Simpler applications work already; working on making more advanced ones work, several PRs are in progress
  - Startup performance improvements are impressive; image size still needs work
- San-Hong Li (Alibaba): Just a reminder for follow-up from the last meeting: regarding the project contribution role, do you have any updates for this topic?
  - Thomas Wuerthinger (Oracle): one thing we can do is recognize contributions more (other than in release notes etc)

    - One more improvement in this area is that our support team is now monitoring PRs closer to ensure reasonable response time
- San-Hong: The following PR is pending review: https://github.com/oracle/graal/pull/3972
    - Can you guys give us fast feedback? We(Alibaba) have more succedent patches(10+) are pending submission. Or do you have any suggestions - how we can facilitate the whole review process for the standalone static analysis tool.
        - follow-up offline
- Johan Vos (Gluon): Java on client update
    - let's follow-up on this offline
- Uma Srinivasan (Twitter): continuing to struggle with this JDK11 JVMCI jar graal issue https://github.com/oracle/graal/issues/3831 due to this OpenJDK issue https://bugs.openjdk.java.net/browse/JDK-8262762. Tried the recommended patch "8269039: Disable SHA-1 Signed JARs" on top of the JDK 11 latest update but still doesn't help. We are considering the use of libgraal instead of jar graal but it would take some time before we convince ourselves that this approach would work for us and reliably move to this build and deploy mode. Any advice on different approaches we can explore to overcome this issue in the short term? Going forward, what is the outlook and expectation on JVMCI support in JDK17+, now that Graal has been removed as the (one and only JVMCI client and) experimental compiler?
    - Gilles Duboscq (Oracle): we can ask for things to be backported; but also looks like this could be resolved by switching to libgraal
- Jason Greene (Red Hat): Do you have a Loom strategy?
    - Thomas Wuerthinger: we are looking at it, and waiting for it to get closer to landing in some release; so no specific timeline at this point
- Thomas Wuerthinger in general, one of our focus areas for the next few releases will be Native Image peak performance, image size, and memory usage.