Date:

August 13th, 5 PM CET

General topics

- New advisory board members:
  - San-Hong Li, Alibaba;
  - Iván López, Object Computing, Inc;
  - Uma Srinivasan, Twitter.
- project updates & 20.2 release (Alina Yurenko);

GraalVM Security Group

- GraalVM Security Group update (Roxana Bradescu);
- Finalized charter was sent and since no feedback finalized
- Please send nominations noting the charter membership requirements to Roxana cc Alina
- Max: a few people at Red Hat would like to join; also have some questions — to send email to Roxana and Thomas
- Fabio: can you please resend the final version of the charter - Roxana done

Release process, platforms

- Follow up on CE Release Schedule and Process (Fabio Niephaus, Uma Srinivasan)
  - Did you drop the patch releases? Is it possible to open the release process even further, like adding the feature freeze dates, etc?
  - Thomas: yes, should be possible to add the feature freeze dates; We will continue to release versions of 19.x that include the GraalVM and OpenJDK security fixes once those are available. We will also release a feature release which includes the GraalVM and OpenJDK security fixes once available, which is pretty much around the same time.
  - Thomas: since the last time we also added more frequent Community builds (https://github.com/graalvm/graalvm-ce-dev-builds/releases).
- Arm/Alan Hayward: What is the team's view of Project Metropolis and Project Leyden. Will that cause any new features or constrains for Graal? Will it cause any potential problems with the release cadence?
  - Shouldn't cause any problems for GraalVM; In fact could simplify working with native image (e.g. debugging);
- Gluon/Johan Vos: Release candidates: it would be good to have e.g. 20.2-RC1 binaries with a permanent link that can be used by third party CI systems, instead of using the -dev builds that don't have a permanent URL
  - yes; we are working on it;
- Fabio Niephaus: GraalVM for macOS: codesign/notarization, support for Big Sur and Apple Silicon?
  - signing/notarizing: we are working on it - just haven't done yet (Roxana);

- we will work on making it possible to run GraalVM on Apple Silicon - will take some time.

Project Mandrel update

- Max: So far 2 or 3 builds have been released; following GraalVM closely; goal — using unchanged JDK;
- Eric: LabsJDK (https://github.com/graalvm/labs-openjdk-11) has some patches to ensure native image & HotSpot behave in the same way;
- Max: can you point/give details to that patches? Eric: yes; we can also discuss it in more detail; Basically, GraalVM Community is based on OpenJDK + those patches.

Advisory Board evaluation after 6 months

Accomplished:

- Advisory Board meeting regularly (every 3 months);
- Meeting minutes are published publicly; also could publish slides;
- Establishing the Security Group;

In progress / not fully accomplished yet:

- New SubstrateVM PRs starting on Github /public. There is progress in this area, but more work needed — the Oracle GraalVM team is working on this further right now. Possible ETA — early September.
- Public roadmap: there are public projects on GitHub, but information about bigger things would be helpful too.
  - We can also publish development plans, similarly like we have publish release notes.
  - Native image plans: https://github.com/oracle/graal/issues/2762
  - We can also add a GitHub project for the compiler.
- Timely feedback on contributions. There is progress, but response times could be improved.
  - We also created an open-source script identifying issues & PRs that haven't been commented on in the given period of time.
- Improving tests/CI for Graal so that there is a comprehensive open source validity suite for the community. There is progress in this area: reaching an agreement, Travis integration, GitHub actions, waiting for further improvements.
  - Roxana: Do we need to use 3rd party actions, or are default GitHub actions enough? Max: perhaps no 3prd party actions needed.

Contributing and CI

- ARM/Alan Hayward: There have been a few instances where patches have been committed which break the Travis CI tests, sometimes for a few days or more. Could we improve the gatekeeping for upstreaming?

    - Thomas: should be improved soon with GitHub actions;
- What are the current plans for auto vectorisation in Graal-CE? And are there any specific plans in regards to AArch64 SVE?
    - Thomas: should be some time after the bounds checks are in (soon; perhaps 20.3); SVE — will take some time;

- Alibaba/Sanhong: Improve the efficiency of the review process. The PR requires a longer response. The below PRs from our side are still in pending review:
    - Field java.net.URL.handlers is deleted but still reachable: https://github.com/oracle/graal/pull/2059
    - Support dynamic class loading: https://github.com/oracle/graal/pull/2442
    - Support JDK serialization/deserialization features: https://github.com/oracle/graal/pull/2730
    - Support package-annotation-related calls: https://github.com/oracle/graal/pull/2400
    - Dependencies of interface class initialization do not include its superinterfaces: https://github.com/oracle/graal/pull/2580
        - Alina: we will go through those PRs and respond on them on GitHub.
    - In short/medium term, If the contributor can run the patch code of PR on the top of public CI infrastructure before going into real code review(so that reduce the efforts from the reviewer). We may consider leveraging the community for such open CI infrastructure, likes AdoptOpenJDK?
- Alibaba/Sanhong: Have a doc to record the compatibility issues (in detail) with the standard OpenJDK? For example, the SVM behaves differently from OpenJDK in many system properties, likes java.home, awt.toolkit, java.vm.info etc.
    - Thomas: the best way to work on such issues is via creating GitHub issues for the SubstrateVM team;
    - Fabio: list those issues in substratevm/COMPATIBILITY.md?

// To do

- Resend the security charter;
- Follow up on the PRs listed above;
- Send the slides & publish the meeting notes.