Eclipse OpenJ9 Community Call Agenda & Minutes - Apr 11, 2018 11am EST

Zoom link https://zoom.us/j/9102374291

Google Calendar invite:
https://calendar.google.com/calendar?cid=YjBnYjB0ZzNxaTZhb3NhZGZnbG0wa3BjY29AZ3JvdXAuY2FsZW5kYXIuZ29vZ2xlLmNvbQ

Discussion on OpenJ9 #planning: https://openj9.slack.com/messages/C8RBG6N2W

- join Slack via: https://www.eclipse.org/openj9/oj9_joinslack.html

Attendees (please add your name and company to this attendees list):

Boris Shingarov (LabWare)
Jonathan Woodford (IBM)
Dan Heidinga (IBM)
Peter Shipton (IBM)
Simon Rushton (IBM)
Shelley Lambert (IBM)
Mark Stoodley (IBM)
Irina Rada (IBM)
Stewart Addison (IBM)

Recording: https://youtu.be/8w2B7DX-bIM

Agenda:

Please add your name and company to the attendees list above.

Review previous minutes and action items:
https://docs.google.com/document/d/1Vws9nUEiZiHH6DDqzvvvHjO4vqe8t-MaV3f-G_XWbQ0/edit

Ask the OpenJ9 community

- Discussion of topics of interest to end users
- User questions
- Lightning talks
    - Jit verbose logs - Mark Stoodley - April 18, 2018
    - Metronome GC - Aleks Micic - April 25, 2018

Discussion of user question around JRE packages. Need to bring this up with Adopt as well.

https://github.com/AdoptOpenJDK/openjdk-build/issues/262

Question as to the testing expectations for this package

Discussion of non-compressed refs packages as well.

TODO: Dan to create an OpenJ9 issue to create the packages. Then follow up with Adopt - Target next meeting

Slack discussion about how to get verbose logs from the JIT / GC

TODO: to document some of this information and make it more consumable.

TODO: rebrand some of the verbose:gc logs articles from IBM for OpenJ9

TODO: document the dump / trace use cases, couple with DDR

Action: Dan: to Create an issue to discuss the set of topics to blog

OpenWhisk, JitWatch, AOT, SharedClasses, trace, dump

Action: Sue: to investigate the most popular topics / options from the IBM doc.

General business:

Managing OpenJ9 Issues.

- Issues 263 open, Past 256, 244, 235, 245
  https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+is%3Aissue

  WIP 5
  https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+is%3Aissue+WIP+in%3Aname
  - JDK 11 21 open, Past 22
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+is%3Aissue+label%3Ajdk11+
  - JDK 10 13 open, Past 8
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+is%3Aissue+label%3Ajdk10
  - JDK9 19 open, Past 18
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+is%3Aissue+label%3Ajdk9+
  - JDK8 9, Past 9
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+is%3Aissue+label%3Ajdk8
- PRs 59 open
  https://github.com/eclipse/openj9/pulls?q=is%3Aopen+is%3Apr
  WIP 29

- Test failures - 27 open, Past 21, 19, 20, 23
  Issues only, no PRs
  - https://github.com/eclipse/openj9/labels/test%20failure
  - 6 JDK8, 1 JDK9, 1 JDK 10
  - JDK8 6, Past 6, 6
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+label%3A%22test+failure%22+label%3AJDK8
  - JDK9 1, Past 1, 1
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+label%3A%22test+failure%22+label%3AJDK9
  - JDK10 6, Past 2, 1
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aopen+label%3A%22test+failure%22+label%3AJDK10
  -
- JEPS - 17 open, same as last 5 weeks
  https://github.com/eclipse/openj9/issues?q=is%3Aissue+is%3Aopen+label%3AJEP
  - 13 JDK9, same as last 2 weeks;
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aissue+is%3Aopen+label%3AJEP+label%3Ajdk9,
  - 1 JDK10, same as last weeks,
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aissue+is%3Aopen+label%3AJEP+label%3Ajdk10
  - 3 JDK11, same as last weeks,
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=is%3Aissue+is%3Aopen+label%3AJEP+label%3Ajdk11+

- JEnhancements - 36 open, Past 36, 36, 34, 35, 35
  https://github.com/eclipse/openj9/issues?q=label%3Aenhancement
  - JDK 8 1, Past 1
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3Aenhancement+label%3Ajdk8+
  - JDK 9 2, Past 1
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3Aenhancement+label%3Ajdk9
  - JDK 10 1, Past 1
    https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3Aenhancement+label%3Ajdk10

- JIT Component
  Open Issues 48 , Past 46, 44, 46, 46
  Closed Issues 20
  https://github.com/eclipse/openj9/issues?q=is%3Aissue+is%3Aopen+labe

l%3Acomp%3Ajit

Open PRs 15
Closed PRs 182
https://github.com/eclipse/openj9/pulls?utf8=%E2%9C%93&q=is%3Apr++label%3Acomp%3Ajit+is%3Aopen+
WIP PRs 4
https://github.com/eclipse/openj9/pulls?utf8=%E2%9C%93&q=is%3Apr++label%3Acomp%3Ajit+is%3Aopen+WIP+in%3Aname

No JDK labelling

- VM Component
  - Open Issues 73 open, Past 70, 70, 67, 64, 57
    Closed Issues 99
    https://github.com/eclipse/openj9/issues?q=is%3Aissue+is%3Aopen+label%3Acomp%3Avm __
  - Open PRs 26
    Closed PRs 367
    https://github.com/eclipse/openj9/pulls?q=is%3Apr+is%3Aopen+label%3Acomp%3Avm

    WIP 18
    https://github.com/eclipse/openj9/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+label%3Acomp%3Avm+WIP+in%3Aname+
- GC Component -
  Open, Past 14, 13, 12, 10
  https://github.com/eclipse/openj9/issues?q=label%3Acomp%3Agc
  WIP 2
  https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3Acomp%3Agc+is%3Aissue
- Doc Component
  Open Issues 6 , Past: 14, 6, 6, 6, 7, 10
  https://github.com/eclipse/openj9/issues?q=label%3Acomp%3Adoc

  WIP 0
  https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3Acomp%3Adoc+WIP+in%3Aname
- Build Component - 47, Past 40, 41, 46, 45
  - https://github.com/eclipse/openj9/issues?q=label%3Acomp%3Abuild
- Test Component - 52, Past 49, 51, 46, 50, 50, 188

        - https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3Acomp%3Atest+
    - User Raised 30, Past 27, 25, 24, 23, 9
        - https://github.com/eclipse/openj9/issues?utf8=%E2%9C%93&q=label%3AUserRaised+
    - TODO: add breakdown by JDK - done up to JIT query
    - TODO: breakout PRs, count WIP PRs separately
    - Weekly pulse of the project: https://github.com/eclipse/openj9/pulse

- Growth without bounds is an issue.
- Enhancements vs bugs?
- Pull requests would help track velocity of a component.
- Start by collecting data and looking for patterns, determine what's missing, and if there are particular metrics that we need to focus on.
- Do we need to assign all PRs to the release milestone? Will the the github release feature do this automatically for us?
- Top level number of item is high - if this continues to grow it may indicate an issue.
- Action: Dan: to review the JDK9 issues and see what needs to be retargeted vs closed
- Action: Irina: Reformat this the issues lists in a more readable format

Machines:

- https://ci.eclipse.org/openj9/computer/ - 15 machines (4 offline - 1 AIX, 3 zOS)
- Pursuing x86 machines through UNB (University of New Brunswick).
    - Need to follow up with Charlie.
    - OMR project has been able to get a first x86 machine at UNB. OpenJ9 should follow on soon.
- (some useful info at AdoptOpenJDK wiki: https://github.com/AdoptOpenJDK/openjdk-infrastructure/blob/master/docs/adoptopenjdk.pdf to look at, then reach out to Adopt folks with questions)
- List of Adopt machine providers: https://github.com/AdoptOpenJDK/openjdk-infrastructure/blob/master/ansible/inventory.yml
- Eclipse updating common build infrastructure, which may provide machine options for Mac, Windows, xLinux
    - Adopt is pursuing Windows machines and will share the avenue / contacts with us once they have them.
    - 4 Windows machines added to OpenJ9 CI. Many thanks to IBM for sponsoring these machines.
- Need to highlight build farm sponsors on the OpenJ9.
    - Dan to open an issue for this on the website repo.
    - https://github.com/eclipse/openj9-website/issues/74

End user experience:

- Reach out to end users, especially those that have already engaged with the project, to get feedback on their experience.
    - Mark to reach out - https://github.com/eclipse/openj9/issues/39
    - Charlie Nutter, of JRuby, reported 30% startup improvement using SharedClasses. Invited to hangout. He helpfully retweeted the info about the hangout, sharedclasses doc, etc.
    - Reached out to early users for an update on their experience and willingness to discuss experience on this call.

- New articles on OpenJ9 being written by end users! Positive experiences.
    - Action: Sue: Record these articles on the website.
    -
- Query for the list of end user items. Discuss those issues or single one of them to go through and summarize. Invite the issue reporter to this meeting.
    - Review offline and decide if any need to be discussed
    - https://github.com/eclipse/openj9/pull/1213 - Automate build instructions using Ansible
        - Adam to review, and Peter has asked Adam or Joe to check if the scripting still works
        -
- Action: Create a query for this tag and regularly review this.
    - https://github.com/eclipse/openj9/labels/UserRaised
        - https://github.com/eclipse/openj9/issues/1629 (Slackin broken)
        - https://github.com/eclipse/openj9/issues/1621 (J* tools not working)
            - Rediscovered this with the OpenWhisk project. The PR to use OpenJ9 hasn't been merged yet due to lack of (different) tools
            - Which tools are most important to users? What are the tools intended lifecycle?
- Blog about this call and the call for user-input
    - Action: Mark: to write initial blog. Waiting for slackin problem to be fixed
- Create an OpenJ9 blog @ URL like eclipse.org/openj9/blog
    - Use a wordpress instance? Adopt has been doing this, posts require a single reviewer.
    - https://github.com/eclipse/openj9-website/issues/68
        - Shelley waiting for an answer on getting money to pay for a Wordpress site
- Wordpress vs Jekyll for blog content? (https://github.com/eclipse/openj9-website/issues/68)
    - Jekyll used for the website?
    - Close on this in the by end of next week
- Wiki? (https://github.com/eclipse/openj9/issues/1565)
    - Github wiki for the project?

    - Easy to get data out of it
    - Access control? Committers?
    - Do we want to open another source of data to look at?
    - Would need a strong notion for why something goes in the wiki instead of elsewhere.

0.9.0 Release (https://projects.eclipse.org/projects/technology.openj9/releases/0.9.0):

- https://github.com/eclipse/openj9/issues/1616 Support proposal
    - OpenJ9 support for a JDK level depends on OpenJDK support for that JDK level
    - Vote from committers to commit to this statement next week
- Requirements gathering:
    - DDR, proper signal handling, non-compressedrefs support ?
    - https://github.com/eclipse/openj9/issues/1381
- Create the Eclipse Release plan early so the community can engage more broadly with it and to meet the Eclipse review cycle.
    - Plan exists but needs to be updated.
- Time-frame: quarterly release to match OpenJDK. Target May for the next release
- Review of platforms and a roadmap for the next release (Windows, Mac, ARM)
    - Windows at OpenJ9 is ready/working, although no machines and no PR testing
    - Still weeks away until we get Windows machines.
    - May need to target cmake work to windows to enable AppVeyor
- Test goal to run the OpenJDK jtreg suites that are applicable to OpenJ9 and pass them for the 0.9.0 release. Aiming to address them in a priority order.
- Creation of Linux packages for OpenJ9
    - How to create RPM, PPA, .deb?
- What to do about creation of non-compressed builds (does anybody need these yet? Yes, we had a specific request via the OpenJ9 slack). How will they be tested? There are two options on the table. 1) create a single build containing the 2 VM (2) Create separate JVM builds
    - Dan to work with Adam to roll out non-compressed builds at OpenJ9
    - Then open discussion at adopt.
- Should OpenJ9 build instructions incorporate what Adopt is doing to add in extra pieces?
- https://github.com/AdoptOpenJDK/openjdk-build/wiki/Differences-between-Adopt-OpenJDK-binaries-and-Oracle-JDK-Binaries

How to advertise the call?

- Broadcast on Twitter? Other locations?
    - Action: Dan: to tweet hangout ~ 1 hour before the call.
- Drive interest in the project through talks, articles, tutorials, etc
    - Make this call more educational about OpenJ9
        - Short presentations on how to use X and when / why to use it.
            - SharedClasses

            - AOT
            - GC Policies
    - Add more articles / blogs on the website.
        - Article introducing OpenJ9 coming at Eclipse
- Action: Shelley: release blog / video on testing OpenJ9 through the website
    - Update: 1st of several tutorials recorded, audio quality needs correction, try to complete this week

AOB (please put your name by the item)

- Keep Adopt in the loop re:release process
- Refactor build instructions into the doc/ folder
    - Need to coordinate with the website. Possibly update the readme in the doc folder about its purpose.
- Adopt TSC is building a landing page for info (README at https://github.com/AdoptOpenJDK/TSC)
    - Should we be doing something similar?
    - Good starting point for anyone involved in the project. Pinned the most interesting repos.
    - TODO: Update OpenJ9 main repo readme to callout the other related repos.
        - https://github.com/eclipse/openj9/pull/1611

Next call: April 18, 2018 @ 11 AM EST