GenevaERS Annual Project Reviews

Project Updates sent for the February 2023 Board Meeting

Capabilities

- Replacing zO/S module MR91
  - Testing has begun on the java version of MR91. Testing is currently testing existing capability of ingesting and processing XML generated from the GenevaERS front end and running on zO/S
- Performance Engine build process
  - Work completed on moving code to internal IBM GitHub
  - Next steps - finalizing what capabilities will remain in commercial version vs the open source version. Commercial version is for capabilities that require a license to use on the mainframe such as reading from DB2 data sources. Additional criteria for remaining in the commercial version are capabilities that do not align with future state capabilities or are very niche use cases.

Training Documentation

- A lot of work completed since August to modernize documentation that was customer / user facing via PDFs. Documentation website is now markdown and Jekyll based using GitHub pages.
  - New wiki for the workbench demo

Goals

- At least one new committer not affiliated with IBM or SAFR users companies
  - We've recently had someone new join our project meetings. He has been receiving overviews on the project.

GenevaERS Project Status - August 2022

Review

Capabilities - Proof of Concepts

- Linux on Z
  - Proved machine code generated on Linux on Z would run as expected on zO/S
  - Future challenge, changing the performance engine IO for Linux on Z
- Docker
  - Created a container for the workbench and proved the workbench can be used on non-Windows computers

Training Documentation

- Phase One completed
  - Conversion of all existing training documentation to markdown
  - Output will be pulled into a Jekyll powered site

Demos

- In support of original demo released videos “Geneva in One Minute” and “Geneva in Two Minutes” on GenevaTV YouTube channel
- Wiki released for the demo
- Demo improvements.
  - New demo workbench released with performance improvements to the demo views.
  - New wiki for the workbench demo

Published in Enterprise Systems Journal “Open Source Unlocks Mainframe Data: In Situ Analytics with GenevaERS”

Look Ahead

Capabilities

- Performance Engine build process
  - Allows for one build for GenevaERS and SAFR (commercial capabilities)
- Java MR91
  - Replaces zO/S MR91

Complete release strategy

Training Documentation

- Complete ingestion of documentation into Jekyll site
- Includes automation for GenevaERS and SAFR

Goals

- At least one new committer not affiliated with IBM or SAFR users companies
- Potential work - build runway to expand capabilities for new docker container

GenevaERS Project Status - August 2021

Background

- Initially developed as a product and consulting services asset from late 1980's through early 2000's when purchased by IBM as part of acquisition of PwC Consulting
- Original name was GenevaERS until IBM Acquisition when it became known as Scalable Architecture for Financial Reporting or SAFR
- Effectively a Map-Reduce Engine more than 10 years before development of Map-Reduce in 2004 by Google
- Drives incredibly high throughput focused on z/OS on IBM Z Mainframes
- A score of very large, enterprise customers over its history, continuing to be supported under contract for some customers
- Released as Open Source by IBM in May 2020
- Approved as incubation OMP project July 9th, 2020
- Project Renewal Status on August 12, 2021

TAC Project Status Application

- All OMP Requirements met as listed at https://github.com/genevaers/community/tree/master/tsc
- Demo System, including: https://github.com/genevaers/demo#readme
  - Downloadable executables https://github.com/genevaers/demo/releases/tag/v1.0.0
  - Sample GenevaERS configuration (XML format)
  - Sample Execution z/OS Scripting (JCL)
  - Users Instruction
- Code Released:
  - Java (Frontend Workbench) https://github.com/genevaers/wb
  - z/OS Assembler (Performance Engine) https://github.com/genevaers/pe
- Website (GenevaERS.org, new Linux Foundation GenevaERS.Com soon)
- Adopters: Continuing GenevaERS customers
- Committers: 17 team members from multiple organizations

Next Steps

- Public Build Processes
- Enhanced Documentation
- Renewed Spark Integration Efforts
- Other Enhancements