GenevaERS Annual Project Reviews

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

- 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

- Public Build Processes

- Enhanced Documentation

- Renewed Spark Integration Efforts

- Other Enhancements

OPEN **MAINFRAME** PROJECT

G **GenevaERS**

The Single-Pass Optimization Engine