

## RISING STAR: HEIRLOOM COMPUTING

### Overview

Heirloom Computing was founded in 2010 in Silicon Valley, California. Heirloom refactors mainframe applications to 100 percent cloud-native Java, adding architecture modernization that can scale horizontally with high-availability in the cloud. Legacy languages supported are COBOL, PL/I and JCL, with partner tools for Assembler, CA-Telon, CA-Gen, ADSO and other 4GL languages. Modernization methods include compiler-based replatforming and refactoring to Java.

### Strengths

**Migration speed and scale:** Heirloom showcases mainframe code refactoring at compiler-speed. Its benchmark is 19 million lines of code converted in under an hour. Probe is Heirloom's analysis and automation tool to orchestrate transformation tasks such as inventory analysis and collection, data migrations, application configuration, code refactoring and deployment to the target platform. Heirloom automatically exposes business rules as RESTful web services. The company is investing to automate replatforming of many different workload variations.

**Database transformation:** During inventory analysis, Probe automatically extracts metadata such as data encoding, record layouts and access method. Metadata is used to automatically construct data profiles to migrate the mainframe dataset to the target relational database. The Heirloom Framework manages the database I/O, translating the application call to the correct database method. Heirloom's solution delivers scalable and performant applications for replicating transaction management, resource management, middleware, batch processing, and security.

**Coexistence of programming platforms:** The Heirloom SDK plug-in provides editing, compiling, debugging and code refactoring in the Eclipse IDE. After the applications are replatformed, clients can continue development in COBOL, PL/I, JCL or Java, with all code compiled and deployed as standard Java packages (.jar, .war, .ear) to any industry-standard Java Virtual Machine (JVM) or Java Application Server. This gives clients the ability to retain their application experts and add Java programmers to smooth transition of the organization's skillset.

### Caution

Heirloom's clients retain software maintenance fees for using the Heirloom IDE and Framework.

The company covers the most used legacy languages. However, clients should check their requirements to negotiate conversion alternatives.



## 2021 ISG Provider Lens™ Rising Star

Heirloom toolset delivers fast and effective refactoring for large-scale mainframe modernizations and migrations to the cloud.