Intervals: The “Glue” Between the Java™ Language, Computing Hardware and Grids

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Intervals can become the “glue” that connects the write-once-run-anywhere Java™ language paradigm to computing hardware and grids. The result will be Java™-language advantages and unsurpassed runtime performance. This paper describes how the properties of interval solvers will be used to logically connect Java™ applications to generic interval solver libraries that efficiently perform the most demanding floating-point computations.