

Zircon Computing and Numerical Algorithms Group (NAG) Announce Case Study Results with Goethe University Frankfurt

Significant Performance Gain is Easily Achieved, Sequential Heston Calibration Computation Reduced from 9 hours to 18 minutes

Zircon Computing and NAG today announced the results of work performed by Goethe University Frankfurt. The case study details the results of parallelizing NAG with Zircon Software for computational finance applications.

"The NAG numerical Library is used at Goethe University Frankfurt to provide fast and reliable mathematical and statistical algorithms" says Dr. Grigory Vilkov, Associate Professor of Finance at Goethe University Frankfurt. "We are constantly increasing the level of complexity and, more importantly, the quantity of models and data that we process", added Dr. Viilkov. "In order to stay successful in research and to cope with these volumes, we needed to move to parallel and distributed systems".

"We began to use the Zircon software to address our parallelization and distributed computing requirements. And we found that the NAG C library integrated very easily with the Zircon Software, said Dr. Vilkov. Furthermore, the Zircon software was easy to learn and use, and was extremely scalable. We maximized our hardware utilization and realized near linear performance gains", added Dr. Vilkov. "We were able to reduce the compute time of the Heston calibration application from 9 hours to 18 minutes to process 1,065 models" said Dr. Vilkov.

"While there are number of approaches to increasing performance and scale to existing or new compute-intensive applications some can be programmatically cumbersome and thus out of reach for many organizations," says David Cassell, Product Marketing Manager. "NAG sees that Zircon provides an immediate way for people to benefit from this exciting new technology. We know that there is tremendous market potential."

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