

Introduction to Unified Parallel C (UPC) and Co-array Fortran (CAF)

Donnerstag, 05. Juli 2018 bis Freitag, 06. Juli 2018 | 08:30 Uhr bis 15:30 Uhr

Höchstleistungsrechenzentrum Stuttgart (HLRS) | 70569 Stuttgart, Nobelstr. 19

This course gives an introduction to this novel approach of expressing parallelism. Hands-on sessions (in UPC and/or CAF) will allow users to immediately test and understand the basic constructs of PGAS languages.

Partitioned Global Address Space (PGAS) is a new model for parallel programming. Unified Parallel C (UPC) and Co-array Fortran (CAF) are PGAS extensions to C and Fortran. Parallelism is part of the language. PGAS languages allow any processor to directly address memory/data on any other processors. Parallelism can be expressed more easily compared to library based approaches as MPI. This course gives an introduction to this novel approach of expressing parallelism. Hands-on sessions (in UPC and/or CAF) will allow users to immediately test and understand the basic constructs of PGAS languages. This course provides scientific training in Computational Science, and in addition, the scientific exchange of the participants among themselves.

Veranstalter:

Höchstleistungsrechenzentrum Stuttgart (HLRS)

Nobelstr. 19
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<https://www.hlrs.de/training>

Weitere Informationen: <http://www.hlrs.de/training/2018/UPC1>