

Introduction to parallel programming Implementation of Parallel Processing Inside the Finite Element Method

Software prerequisites

The hands-on part of the course will be carried out using Elmer FEM software in conjunction with Paraview for easier visualization. Both software can be accessed on the HPCFS cluster (additional instructions will be given on the day of the course), however, in order to avoid any overload of the cluster we recommend you to install both software on your local PCs. Additional info regarding the installation of the software are given below.

Elmer FEM

Binaries for Elmer FEM are available both for Linux and Windows on the following link:

<http://www.elmerfem.org/blog/binaries/>

For Windows we recommend to use the MPI version of the software available through:

<https://sourceforge.net/projects/elmerfem/files/WindowsBinaries/Win64InstallerMPI/ElmerFEM-gui-mpi-Windows-AMD64.exe/download>

*when installing chose to add Elmer to PATH environment variables

Paraview

All information regarding the software are given at: <https://www.paraview.org/>

Binaries available at: <https://www.paraview.org/download/> (Windows: you can choose to install the versions with or without MPI)