1 Prerequisites

The following libraries are necessary for using of extrEMe:

- .NET or mono subsystem
- shared build of FFTW3 (http://www.fftw.org/download.html)
- \bullet shared build of OpenBlas (https://github.com/xianyi/OpenBLAS) (recommended) or IntelMKL

For using parallel (MPI) version you need the installed mpi subsystem.

2 Installation

2.1 For Linux with mono

- 1. Set BLAS library into Native/make.inc:
 - For using OpenBlas set BLASTYPE=OpenBlas and correct path into BLAS_INC, BLAS_LIB;
 - For using MKL set BLASTYPE=MKL;
- 2. Set your favorite C compiler (if you want) by the corresponding modification of Native/make.inc
- 3. Build the extrEMe:
 - For serial version run make from installation directory
 - For parallel version run make MPI_VERSION=<MPI_TYPE> from installation directory, where <MPI_TYPE> is one of (OpenMPI,MPICH, MSMPI) depends on your MPI-subsystem.

3 Using

- Example of input format: EndUser/ExtremeMt/Examples/COMMEMI3D2
- Command to run: mono PATH-TO-EXTEREME PATH-TO-.xproj
- For example run from EndUser/ExtremeMt/Examples/COMMEMI3D2 as mono -O=all ../../bin/x64/Release/ExtremeMt.exe forward.xproj (serial version)
- For example run from EndUser/ExtremeMt/Examples/COMMEMI3D2 as mpirun -n 4 mono -O=all ../../bin/x64/Release/ExtremeMt.exe forward.xproj (mpi version on 4 processes)
- The paths for FFTW and OpenBlas/MKL libraries must be in \$LD_LIBRARY_PATH