

Prerequisites

scons, curl, NetCDF,
HDF5, ParMetis

Compiler

MPI, MPI/OpenMP
hybrid

Source Code

<https://github.com/SeisSol>

Gmsh

Planar fault geometry
and meshing

GoCAD

Complex geometry -c
urved fault

Simmetrix

Unstructured
tetrahedral meshing

Model parameter initiation

Initial fault stress

Material proverty

Friction law: slip-wea
kening, RSF, etc.

Keys of ADER-DG

Discontinuous
Galerkin FEM

Godunov Flux - exact
Riemann solver

Arbitrary derivative
time integration

Post-processing Analysis

Dynamic rupture: xd
mf, hdf5

Visualization:
Paraview

Seismographs: binary
, ASCII