Introduction to OpenFOAM Development

Unit 1: Getting Familiar

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1 Your choices
Your version choices

Want to code? Solvers Equations



Your version choices

- Often confusing to new users, there are two different versions of OpenFOAM available
- OpenFOAM[®] is a trademark of ESI-OpenCFD, which distributes it through www.openfoam.com.
- The OpenFOAM Foundation, which has the permission to use the trademark too, distributes the software through www.openfoam.org
- ESI-OpenCFD uses a naming convention like this: "v1806" for the version released in the middle of 2018
- The OpenFOAM Foundation uses a convention like "v5.0". The number is not linked to the date of release

Your choicesYour version choices

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Equations

A scalar transport equation as discretized in OpenFOAM

$$\frac{\partial T}{\partial t} + \nabla \cdot (\mathbf{U}T) - \nabla \cdot (D\nabla T)$$

```
solve
(
  fvm::ddt(T)
+ fvm::div(phi, T)
- fvm::laplacian(DT, T)
);
```

References