Openfoam User Guide

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User Guide Contents; 1 Introduction; 2 OpenFOAM cases. 2.1 File structure of OpenFOAM cases; 2.2 Basic input/output file format; 3 Running applications. 3.1 Running applications; 3.2 Running applications in parallel; 4 Mesh generation and conversion. 4.1 Mesh description; 4.2 Boundaries; 4.3 Mesh generation with the blockMesh ; 4.4 Mesh generation with the snappyHexMesh

~~The open source CFD toolbox - OpenFOAM~~

OpenFOAM The OpenFOAM Foundation User Guide version 8 22nd July 2020 https://openfoam.org

~~OpenFOAM User Guide, Version 8 - SourceForge~~

Tutorial Guide. A collection of tutorials to help users get started with OpenFOAM covering a range of topics, including incompressible, compressible and multiphase flows, and stress analysis Download PDF; View on-line; Extended Code Guide. Browse the extended code guide to see how OpenFOAM operates under-the-hood. As an open source code, users can directly see how the code is written and learn how the functionality is implemented.

~~OpenFOAM® Documentation~~

OpenFOAM User Guide Case Setup. The OpenFOAM User Guide then examines the set up of input data files for a CFD analysis. The input data... Meshing. The OpenFOAM User Guide includes a chapter on meshing. It begins with the mesh structure of OpenFOAM and the... Post-Processing. OpenFOAM is shipped ...

~~OpenFOAM User Guide: CFD Direct, Architects of OpenFOAM~~

OpenFOAM is a free, open source CFD software package released free and open-source under the GNU General Public License through www.openfoam.com. It has a large user base across most areas of engineering and science, from both commercial and academic organisations. OpenFOAM has an extensive range of features to solve anything from complex fluid flows involving chemical reactions, turbulence and heat transfer, to solid dynamics and electromagnetics.

~~OpenFOAM: User Guide: OpenFOAM®: Open source CFD ...~~

Herein, knowledge and background information is assembled which may be useful to others when learning to use OpenFOAM. All information in this document is available on the internet, can be found in...

~~(PDF) OpenFoam - a little user manual - ResearchGate~~

Before attempting to run the tutorials, the user must first make sure that OpenFOAM is installed correctly. Cases in the tutorials will be copied into the so-called run directory, an OpenFOAM project directory in the user’s file system at $ HOME/OpenFOAM/ < USER > -6/run where < USER > is the account login name and “6” is the OpenFOAM version number.

~~OpenFOAM v8 User Guide: 2 OpenFOAM Tutorials~~

OpenFOAM: User Guide: fieldAverageItem. OpenFOAM: User Guide v2006. The open source CFD toolbox. fieldAverageItem. Description. Helper class to describe what form of averaging to apply. A set will be applied to each base field in Foam::fieldAverage, of the following form. Usage.

~~OpenFOAM: User Guide: fieldAverageItem~~

User Guide Contents; 1 Introduction; 2 OpenFOAM cases. 2.1 File structure of OpenFOAM cases; 2.2 Basic input/output file format; 3 Running applications. 3.1 Running applications; 3.2 Running applications in parallel; 4 Mesh generation and conversion. 4.1 Mesh description; 4.2 Boundaries; 4.3 Mesh generation with the blockMesh ; 4.4 Mesh generation with the snappyHexMesh

~~A Reference - OpenFOAM~~

OpenFOAM The Open Source CFD Toolbox Programmer’s Guide Version3.0.1 13thDecember2015

~~OpenFOAM Programmer's Guide - SourceForge~~

Version 8 is a snapshot of the OpenFOAM development version which, through sustainable development, is always-releasable. It provides new functionality and major improvements to existing code, with strict demands on usability, robustness and extensibility. OpenFOAM 8 includes the following key developments:

~~OpenFOAM 8 | OpenFOAM~~

The OpenFOAM User Guide provides an introduction to OpenFOAM, through some basic tutorials, and some details about the general operation of OpenFOAM. OpenFOAM is a collection of approximately 250 applications built upon a collection of over 100 software libraries (modules). Each application performs a specific task within a CFD workflow.

~~OpenFOAM v7 User Guide: CFD Direct, Architects of OpenFOAM~~

OpenFOAM version 6 provides improved usability, robustness and extensibility, and new developments for conjugate heat transfer, rotating/sliding geometries, particle tracking, reacting multiphase flows, chemistry/combustion, water waves, films, turbulence, thermophysics and atmospheric flows.

~~OpenFOAM 6 | OpenFOAM~~

OpenFOAM v8 User Guide: 7.2 Turbulence models. OpenFOAM turbulence model introduction, with RAS and LES models and wall functions.

~~OpenFOAM v8 User Guide: 7.2 Turbulence models~~

OpenFOAM uses its own wmake compilation script that is based on make but is considerably more versatile and easier to use (wmake can be used on any code, not only the OpenFOAM library). To understand the compilation process, we first need to explain certain aspects of C++ and its file structure, shown schematically in Figure 3.1.

~~OpenFOAM v8 User Guide: 3.2 Compiling applications & libraries~~

If the installation is for a single user only, or if the user does not have root access to the machine, we would recommend the installation directory is $HOME/OpenFOAM (i.e. a directory OpenFOAM in the user’s home directory).

~~Download OpenFOAM v8 | Source | OpenFOAM~~

OpenFOAM OpenFOAM is a free, open source CFD software packaage. This entry provides basic information on how to run OpenFOAM from Open CFD. NB OpenFOAM is still in testing, and this guide is very liable to change.

~~OpenFOAM - HPC User Guide 1 documentation~~

‘ User Guide ‘ by The OpenFOAM Foundation: The most fundamental document that one should refer to when beginning to learn OpenFOAM. Although the document is not comprehensive but it contains sufficient information which should get a novice user started.