Title: Integrated Development Environment Eclipse (IDE) for OpenFOAM Assessing the Development and Performance of bubbleFoam

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Description:

"Eclipse is an open source community whose projects are focused on building an extensible development platform, runtimes and application frameworks for building, deploying and managing software across the entire software lifecycle. Many people know us, and hopefully love us, as a Java IDE but Eclipse is much more than a Java IDE." - www.eclipse.org

Eclipse is a powerful integrated development environment (IDE) originally developed for Java programming. But with the C/C++ Development Toolkit (CDT) extension, Eclipse becomes a very common IDE for C++ programming.

In this session programming will be performed introducing Eclipse as an integrated development environment (IDE) for C++, which allows not only efficient programming, but also comfortable debugging in OpenFOAM.

As a result of this session, the model capacities of bubbleFoam a solver for bubbly flows based on the Eulerian-Eulerian two-fluid model will be considerably extended to the cutting-edge of state-of-the-art, holding all drag and non-drag force models that have to be considered nowadays. These forces essentially characterize the fluid dynamics of the two-phase flow system present in bubbly systems.

Tutorial is based on http://openfoamwiki.net/index.php/Howto_Use_OpenFOAM_with_Eclipse

Duration: 90 minutes

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