

CFD Lab: Final Project

3D Navier Stokes Code for Arbitrary Geometries

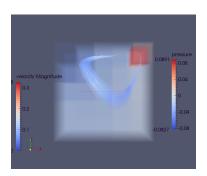
Norbert Schmidbartl, Wei Ni, Zhibin Cheng, Eva Breznik

Technische Universität München Fakultät für Informatik

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Project Topic

- 3D Navier Stokes for arbitrary geometries
- (TO BE DETERMINED)
 Free Surface Flow



Implementation

Theory

	Palabos	OpenLB	LBSim	SailFish	LB3D
Language	C++ (Java, Python)	C++	C++	Python	Fortran90
Visualiz.	ASCII, gif	vtk	OpenGL	numpy, vtk	XDR

Implementation

Problems

blablablablalalablablalalalabla



Title Subtitle

- first
- second
 - second sub 1
 - second sub 2
- own third

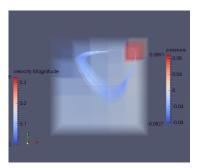


Important: Something.

Parameters used for the simulation: alalalala

Results:

one | 5.217 s two | 6.999 s three | 5.522 s



Some links

Palabos

- Dam Break (free-surface flows): http://www.palabos.org/gallery/ multi-phase-free-surface-flow/23-dam-break
- Volcanic Eruption
 http://www.palabos.org/gallery/incompressible-isothermal-flow/22-volcanic-eruption
- Rayleigh-Taylor Instability: http://www.palabos.org/gallery/ incompressible-isothermal-flow/ 43-rayleigh-taylor-instability

Conclusion and Further Development

have to do moro work obviously:D