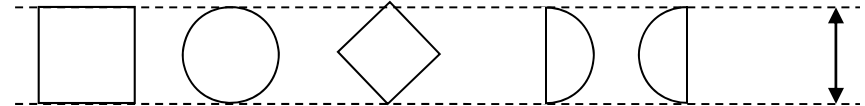




SG2224
Applied CFD
16 April 2015

Individual task



- Objective
 - Drag coefficient for a 2D object
- Aim with the individual task
 - Understand the process (geometry-grid-solution)
 - Understand the tools
 - Detailed step-by-step instruction available on web
 - Basis for the project work
- Time plan
 - Before 20/21 April: Try to do the task based on the detailed instruction
 - Before 26 April: Complete the task – upload results, feedback 28 April



Projects



- Time plan
 - 16 April: Group formed and project assigned - Done
 - 20 or 21 April: Fluent tutorial
 - After tutorial, project work can start
 - 22 May: Project workshop: Presentation and report uploaded
- Aim with the project
 - Problem definition, modelling level and approximations
 - CFD analysis: Meshing, computation, analyze
 - Quality: Refined analysis, parameter study, etc.
- Communication within project
 - Use Bilda – group discussion forum
 - Don't use email, please
 - Why? All members (and I) can see and trace all information.

PDC account



- Running on Ferlin
 - 512 nodes, 4096 cores and 8.2 TB of main memory
 - Can be used for Fluent runs in this course
 - 16 April: PDC information how-to
- Account
 - KTH – Social - Registration, PDC account
 - As soon as possible
 - Let me know (email) if problems with account
- Today
 - Information from PDC, Henric Zazzi

ANSYS/Fluent tutorial 20/21 April



- 2 experts from ANSYS/Fluent Sweden give tutorial on:
 - Geometry builder
 - Mesher
 - Fluent
- Tutorial not mandatory but highly recommended
- Good opportunity to get Fluent tutorial “for free”
- Registration to the tutorial
 - Registration mandatory !!!
 - By email, NOW!!!

Today

- Lectures:
 - Grid generation
 - Boundary conditions
- Also:
 - Information from PDC, Henric Zazzi

