

SALOME Training Session Agenda : Code Integration and Code Coupling

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April 22 - 24, 2013 - CEA Saclay - Bât 442

DAY 1

9:00 General presentation of SALOME

- Welcome
- GEOM, SMESH, MED, VISU, YACS
- Architecture overview

10:30 Break

10:45 Code coupling with Salomé

- Introduction

11:00 YACS Presentation - part 1

- General presentation
- Resources management
- Computation nodes
- Exercise1

12:30 Lunch

13:45 YACS Presentation - part 2

- Python inline nodes
- Exercise 2

15:00 Break

15:15 YACS Presentation - part 3

- Composed nodes and control structures
- Exercise 3

16:30 End

DAY 2

9:00 MEDCoupling

- Overview : global architecture
- Main classes and functionalities

10:30 Break

10:45 MEDCoupling

- Exercise1 : DataArrayDouble manipulation
- Exercise 2 : Mesh manipulation
- Exercise 3 : Field manipulation

12:30 Lunch

13:45 MEDLoader

- Reminders on MED File structure
- Link between MEDCoupling & MED File
- Moving from MEDMEM to MEDCoupling
- Simplified approach with MEDLOADER
- Exercise

14:45 Interpolation

- theory, architecture, options
- PARAMEDMEM
- Exercise

15:30 Break

15:45 MEDCoupling visualisation

- MEDCoupling visualisation from YACS with PARAVIS
- Exercise

16:30 End

DAY 3

9:00 Code integration in Salome platform

- Salomé Components Architecture
- YACSGEN : integration tool
- SalomeTools : source management, compilation, packaging ...

10:30 Break

10:45 Code integration tutorial - part 1

12:30 Lunch

13:45 Code integration tutorial - part 2

15:00 Break

15:15 Discussion

16:00 End