EUFORIA

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EUFORIA (EU Fusion fOR Iter Applications) is a project funded by European Union under the Seventh Framework Programme (FP7) which will provide a comprehensive framework and infrastructure for core and edge transport and turbulence simulation, linking grid and High Performance Computing (HPC), to the fusion modelling community.

1 Scientific Rationale and Main Objectives

The EUFORIA project will enhance the modelling capabilities for ITER sized plasmas through the adaptation, optimization and integration of a set of critical applications for edge and core transport modelling targeting different computing paradigms as needed (serial and parallel grid computing and HPC). Deployment of both a grid service and a High Performance Computing services are essential to the project. A novel aspect is the dynamic coupling and integration of codes and applications running on a set of heterogeneous platforms into a single coupled framework through a workflow engine a mechanism needed to provide the necessary level integration in the physics applications. This strongly enhances the integrated modelling capabilities of fusion plasmas and will at the same time provide new computing infrastructure and tools to the fusion community in general.

2 EUFORIA Resources

- The main EUFORIA Website [1]
- The EUFORIA Public Wiki [2]
- The EUFORIA Internal Wiki (password protected) [3]
- JRA3 (Workflows) Wiki [4]
- Support [5]
- The EUFORIA Wikipedia entry in English [6], Deutsch [7], Español [8], Français [9], Slovenian [10] and Suomi [11]

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[1] http://www.euforia-project.eu/EUFORIA/
[2] http://wiki.euforia-project.eu/
[3] http://iwiki.euforia-project.eu/
[4] http://scilla.man.poznan.pl:8080/confluence
[5] https://support.euforia-project.eu/
[6] http://en.wikipedia.org/wiki/EUFORIA_project
[7] http://de.wikipedia.org/wiki/EUFORIA-Projekt
[8] http://es.wikipedia.org/wiki/Proyecto_EUFORIA
[9] http://fr.wikipedia.org/wiki/Projet_EUFORIA
[10] http://sl.wikipedia.org/wiki/Projekt_EUFORIA
[11] http://fi.wikipedia.org/wiki/EUFORIA-projekti

3 Public EUFORIA pages

To access the public EUFORIA pages [12], an ITM password is needed.

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[12]https://www.eufus.eu/documentation/ITM/html/euforia_public.html