



CASL Computational Science Seminar

Title: An Introduction to Grids, Grid-Ireland, and the EGEE

Speaker: John Walsh (Trinity College Dublin)

Date: Tue 9th October 2007 at 2:00PM

Location: CASL Seminar Room - Belfield Office Park

Abstract: In Ireland, the universities and other institutions of advanced education and research are represented in Government by the Higher Education Authority (HEA), and computing systems at these institutions are interconnected by the HEAnet. Grid-Ireland is a managed layer above HEAnet that provides grid services.

The aim is to enable communities of users, for example, astrophysicists, geneticists or linguists, to construct virtual organizations above Grid-Ireland. The guiding principle is that there may be many virtual organizations, but there only needs to be one grid layer. The benefit is a research platform for scientists and an object of research for computer scientists, and a natural symbiosis between the two.

The Grid-Ireland infrastructure is managed from the Operations Centre hosted by the Computer Architecture and Grid Research Group at Trinity College Dublin. The infrastructure consists of 18 Grid gateways which connect sites to the Grid, allowing local users access to computing resources throughout Ireland and worldwide. National services such as resource brokerage, virtual organisation management, data replica management and a software repository are also provided by the Operations Centre,

making Grid-Ireland a self-sufficient Grid.

We present an overview of what grids are, virtual organisations, the Grid-Ireland operations centre, and how these relate to both the national e-Infrastructure initiative, e-INIS, and into the wider European context.

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