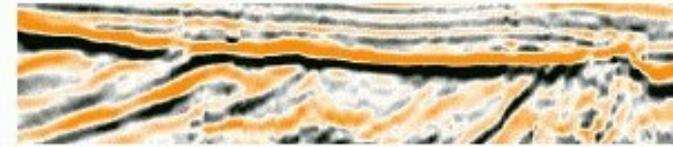


EGEODE VO

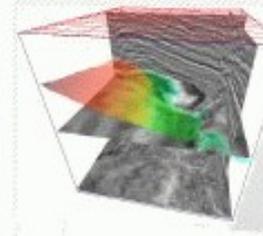


gerald.vetois@cggveritas.com

 EGEODE VO



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Welcome to the EGEODE portal
Geocluster, the leading industry seismic application successfully running on the Production Service, within the Expanded Virtual Organisation (VO). EGEODE is a public and private industrial research project.
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Journée thématique sur les grilles de calcul orientée sur la biologie et les sciences de la terre – Université de Montpellier – 26 Mars 2010

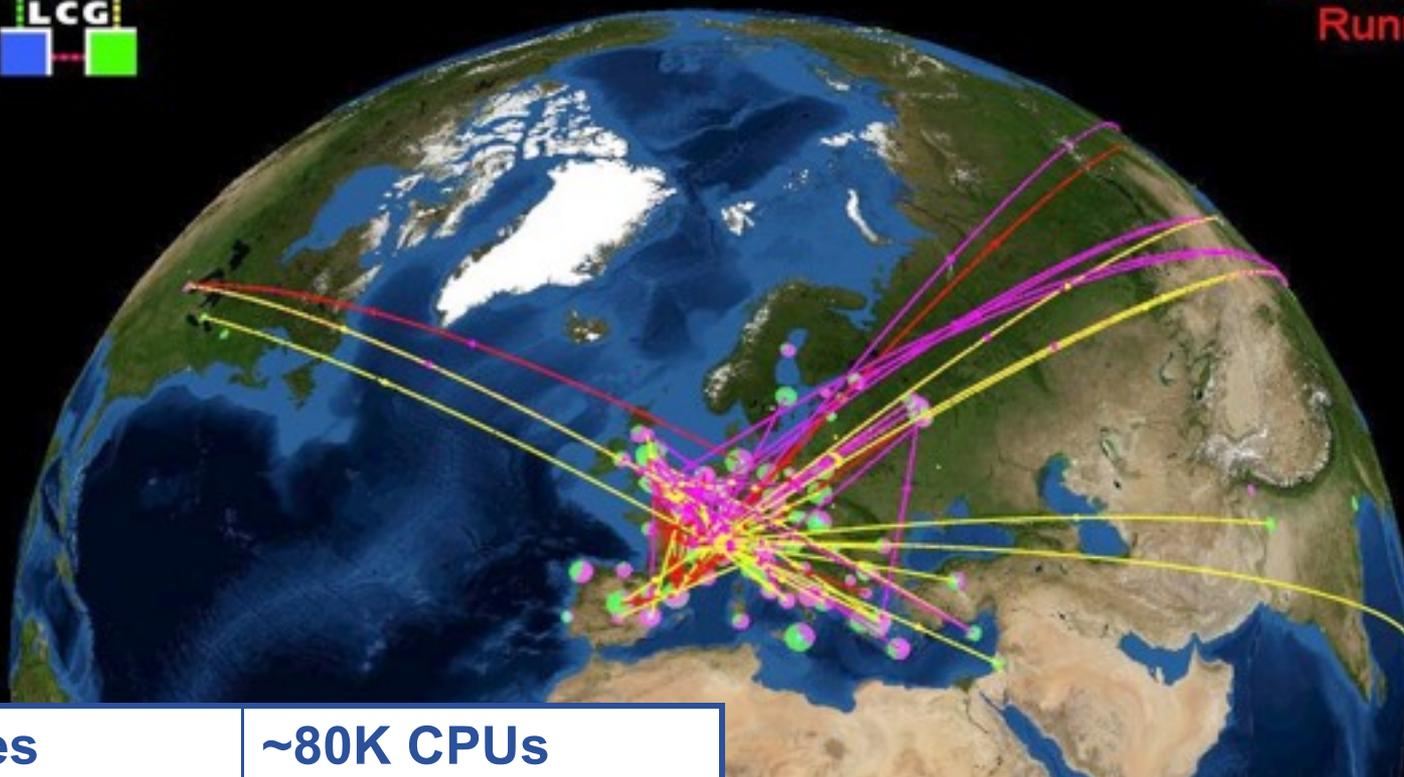
Sommaire

- Historique
- Site de calcul pour la VO
- La VO et Geocluster

Grille EGEE & CGGVeritas



Scheduled = 15301
Running = 10525

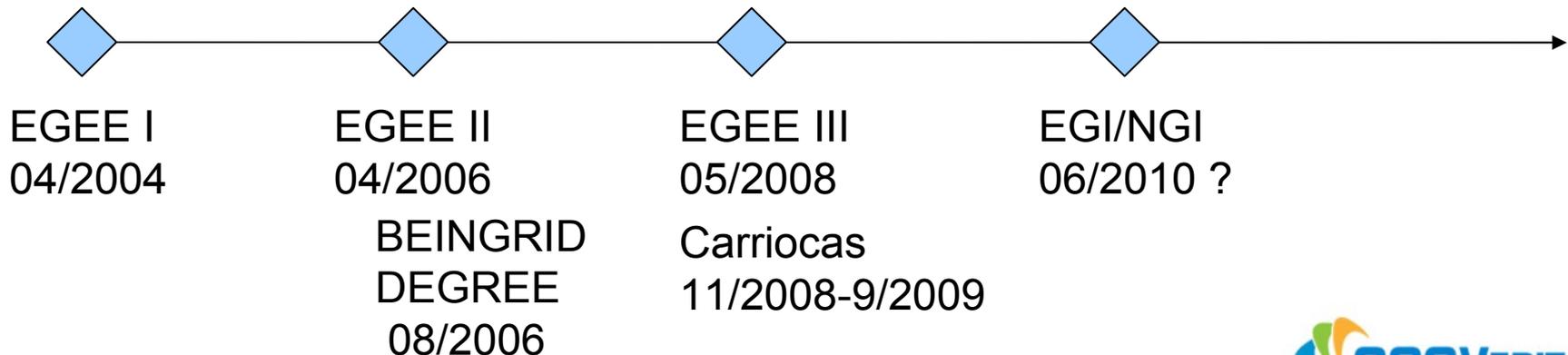


309 sites	~80K CPUs
57 countries	> 75 PB disk
13000 users	> 250K jobs/day
160 VOs	

Infrastructure de production
→ 24h/24h Operationelle !

Historique

Compréhension de la technologie
Création d'un site (CGG-LCG2)
Etude de faisabilité d'utilisation de géocluster sur la grille
Création du serveur centralisé de binaire pour les jobs batch
Portage geocluster (3100,4100,5000) et geovation
Création et animation d'une communauté d'utilisateurs EGEODE
Participation au projet buisness in grid (BeinGRID)
Participation au projet DEGREE (Dissemination and Exploitation of GRids in Earth sciencE)
Portage et support utilisateurs (4 thèses geophysiques)
Participation au projet de visualisation scientifiques (Carriocas)



Un site de calcul de la grille : CGG-LCG2



EGEODE : Expanding Geosciences on demand

14 partenaires

VO Virtual Organisation

Groupe d'utilisateurs : www.egeode.org

7 laboratoires du CNRS

4 universités

3 écoles supérieures

56 comptes utilisateurs

22 utilisateurs actifs

+6000 cpu accessible sur 8 sites

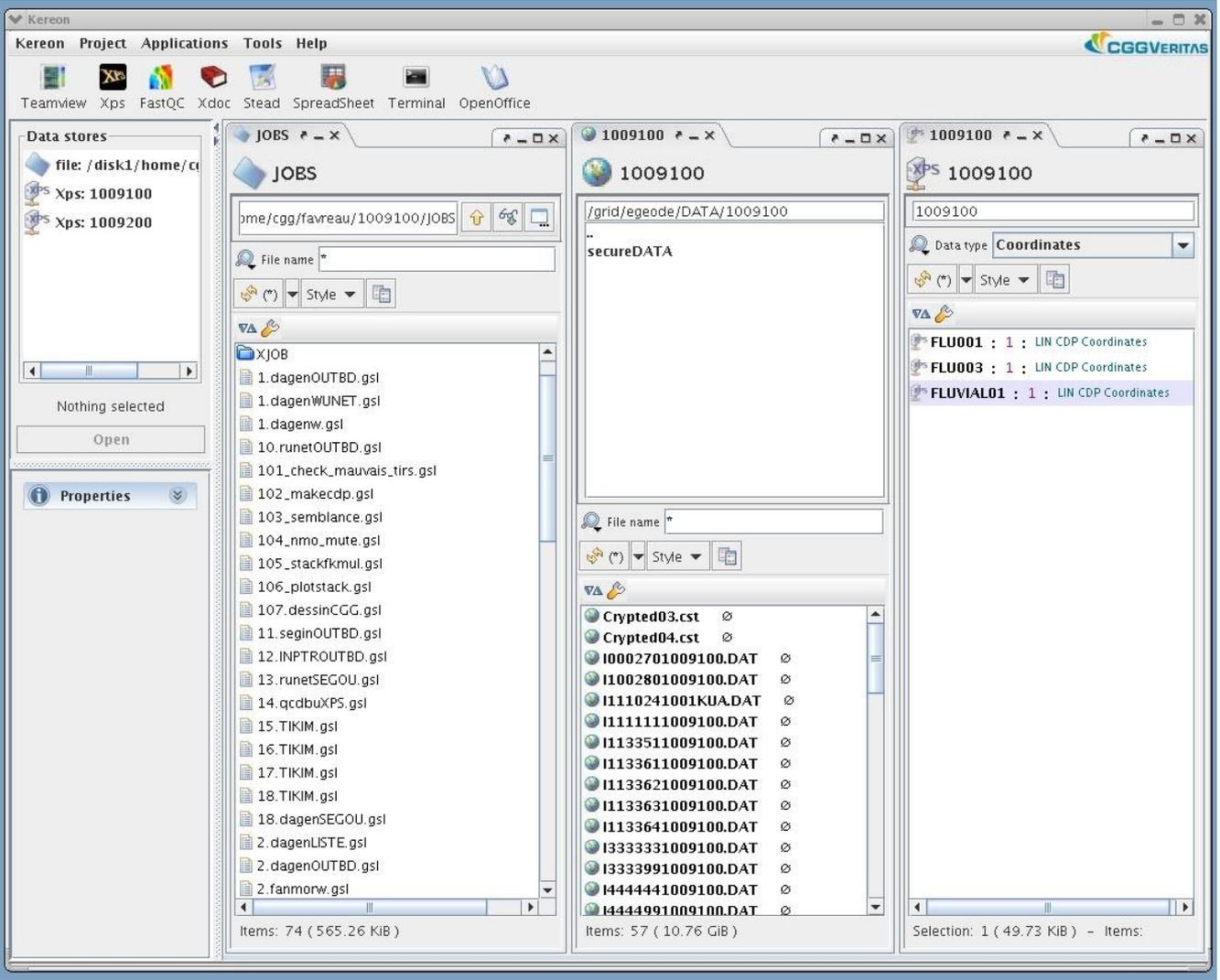
+235k heures de calcul

+2000 Geocluster batch jobs

Lieu d'échanges et de ressources public – privé



Les interfaces de projet et les applications interactives



GEOCLUSTER :

KEREON

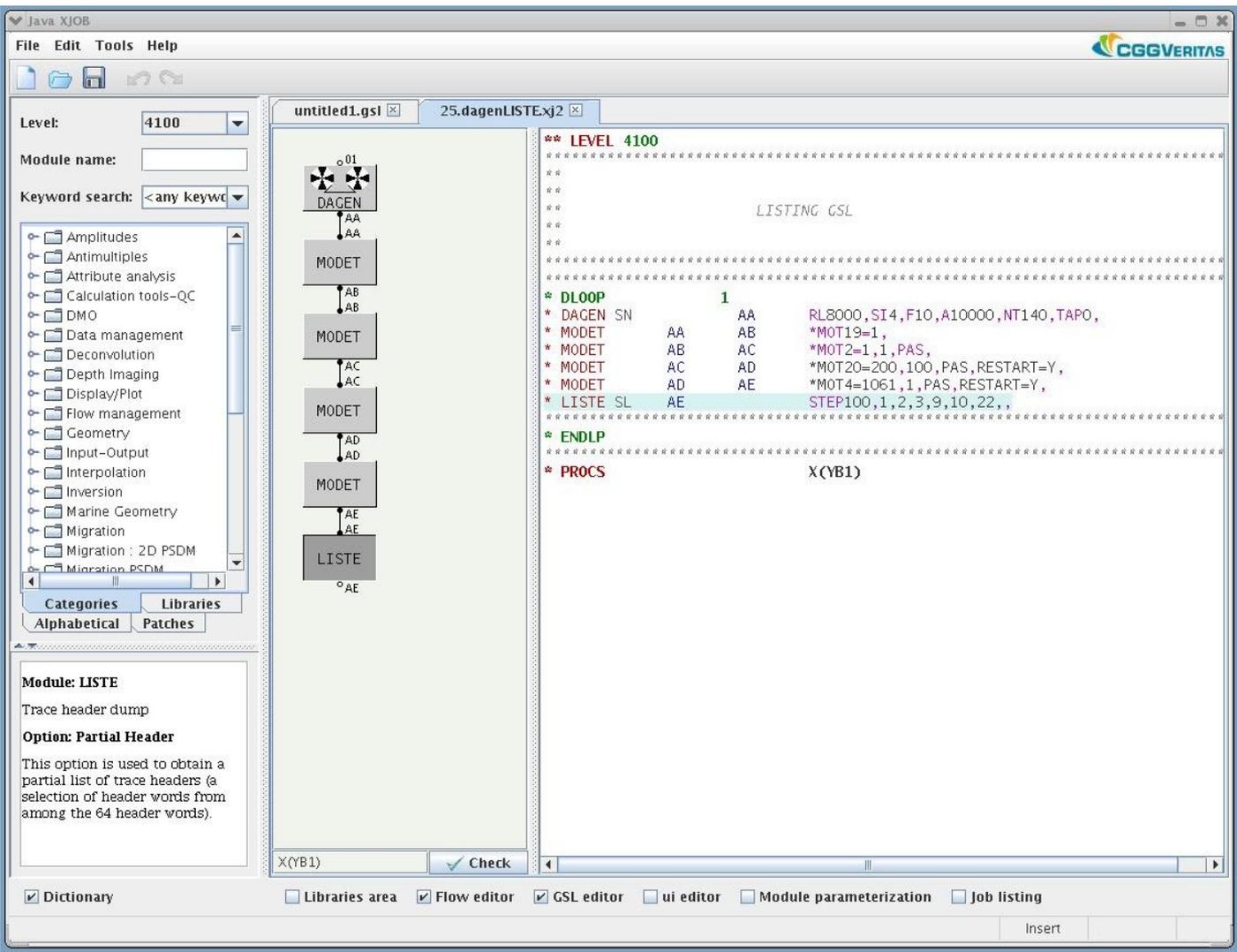
Vue projet local UI

Vue données SE

Vue base donnée



Les interfaces de projet et les applications interactives



GEOCLUSTER :

JXJOB

Créer et éditer les jobs de calcul GSL



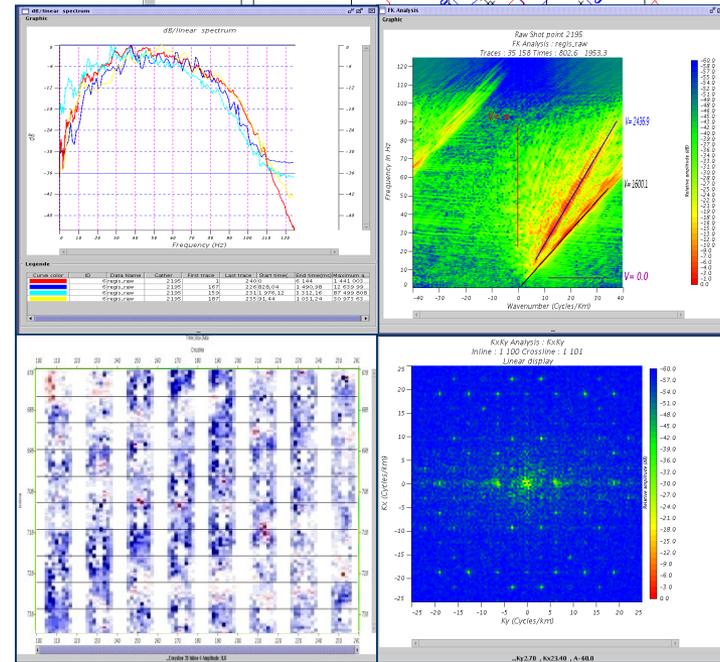
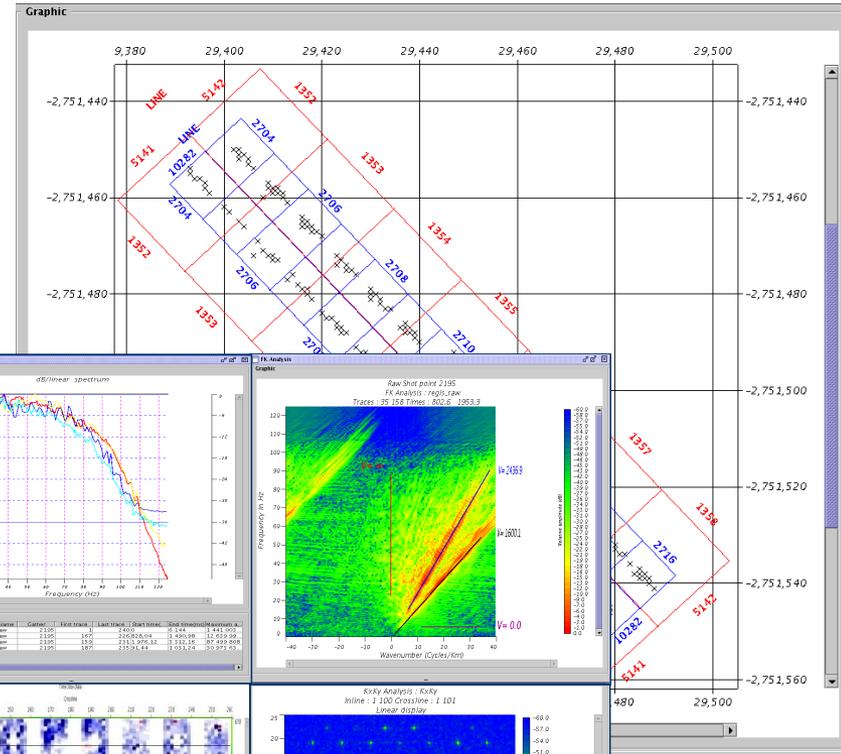
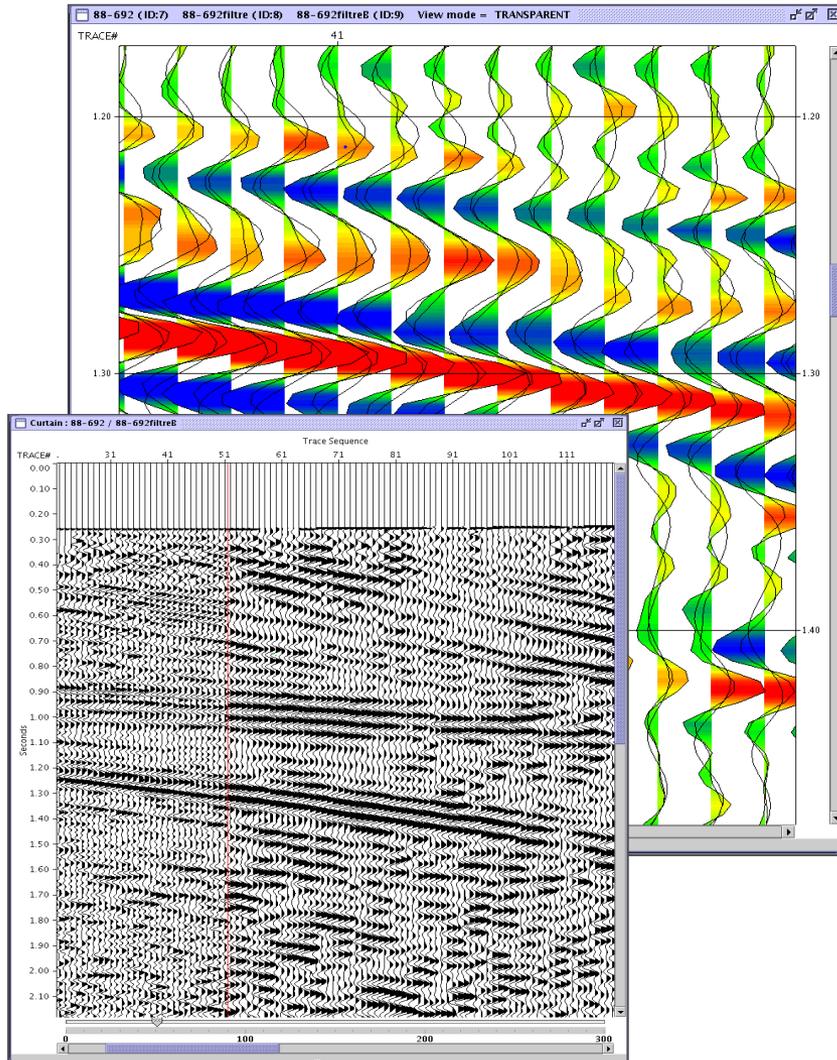
CHRONOVISTA / GEOVEL : Pointé de vitesses

The image displays the ChronoVista 4.0 software interface, which is used for seismic data processing and analysis. The interface is divided into several main sections:

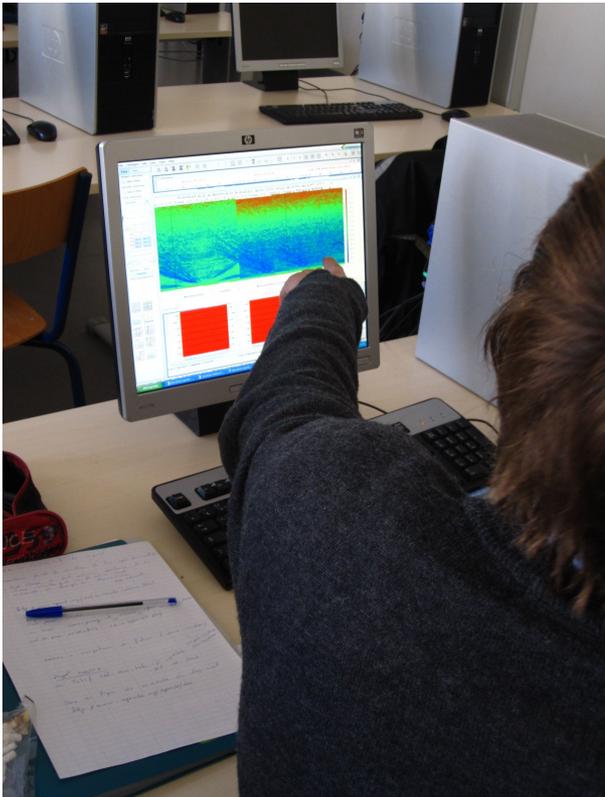
- Session Management:** Includes buttons for 'Manage', 'Interp', 'View', and 'Process' under the 'Data' tab. The project name is 'CHRON001'.
- View Panel:** Contains various visualization options such as 'Basemap', 'DataBlocks', 'Analysis', 'Rmo Gath.', 'Velocity', 'Isovel', 'Seismic4d', 'Seismic4d', 'Bispectral', 'HorizonMap', 'SNOW Viz', 'Slices', and 'GatherGathers'.
- Process Panel:** Offers a grid of processing tools including 'Stack', 'Seismic', 'VF → V.BLK', 'V.BLK → MF', 'Merge/Splice', 'Const. Vel.', 'SurfExt+rad', 'Non-Ext+rad', '4dExt+rad', '4dExt+rad', 'VFS Smooth', 'VFS Smooth', 'Bispectral', 'Composite', 'percentages', and 'VFS Enrich'.
- ChronoVista 4.0 Main Window:** Features a menu bar (Project, Database, Tools) and a central workspace showing a 3D visualization of a pyramid and the text 'ChronoVista Release 4.0'. A warning message is displayed: 'There is no reference topography in the project. 1. Import it from Xps with Geovel. 2. Choose the seismic data from the database. 3. Set your grid parameters or use the default.' An 'OK' button is present below the warning.
- Composite Window:** Displays seismic data analysis results. It includes a control panel with 'Rew', 'Prev', 'Stop', 'Next', and 'Fw' buttons, and a 'Gather index' of 1521.2000. The main display area is divided into four panels:
 - Current Rms VF:** Shows 'Rms Velocity' with a scale from 2000 to 3000.
 - Interval Velocity:** Shows 'Interval Velocity' with a scale from 2000 to 5000.
 - Composite:** Displays a seismic trace with time markers at 21, 1521, 1521, and 1521.
 - Rmo-Gathers:** Shows a seismic gather with time markers at 100, 1521, 1521, and 1521.
- Status Bar:** At the bottom, it shows 'Cdp= 2000 Time= 1239 Data= RMO_GATHER_IL.1521 Value= -1741.00'.

Release 6.3
GeoVel (c) Copyright 2001 CGG

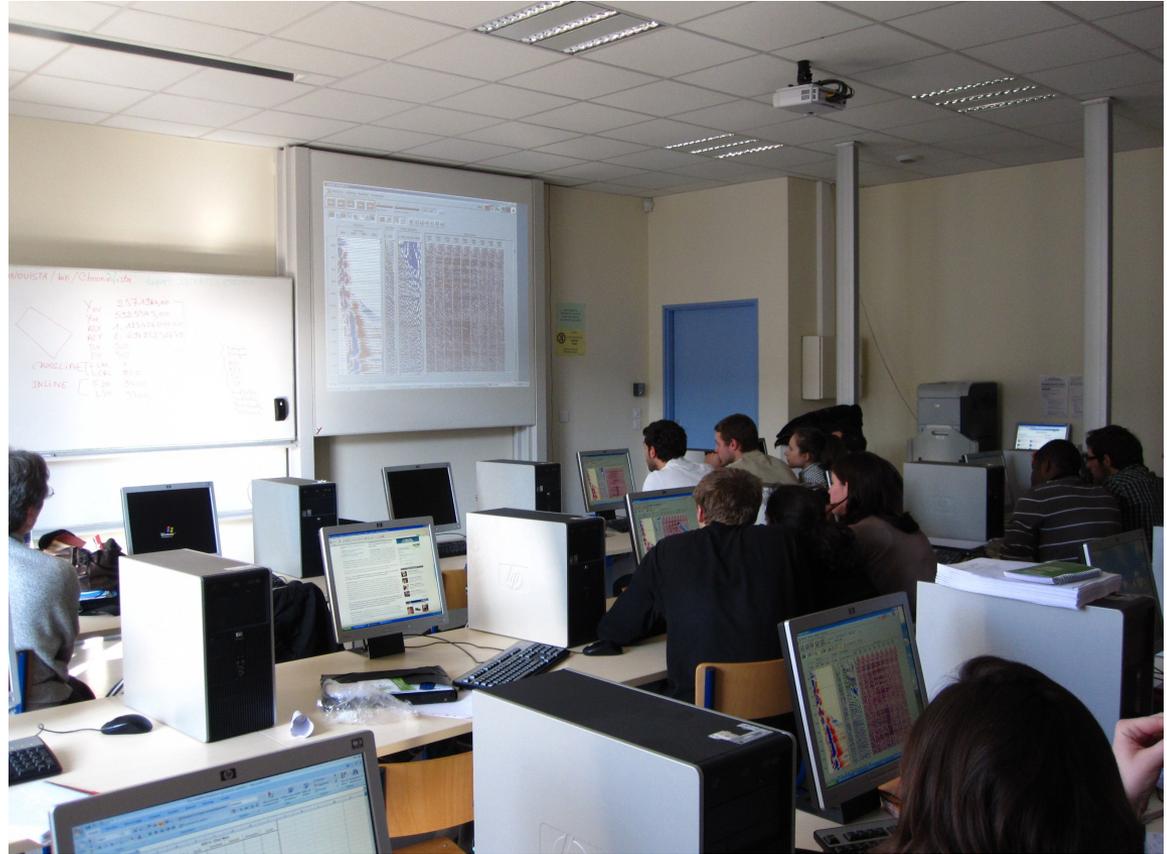
TEAMVIEW : Editeur de traces sismiques



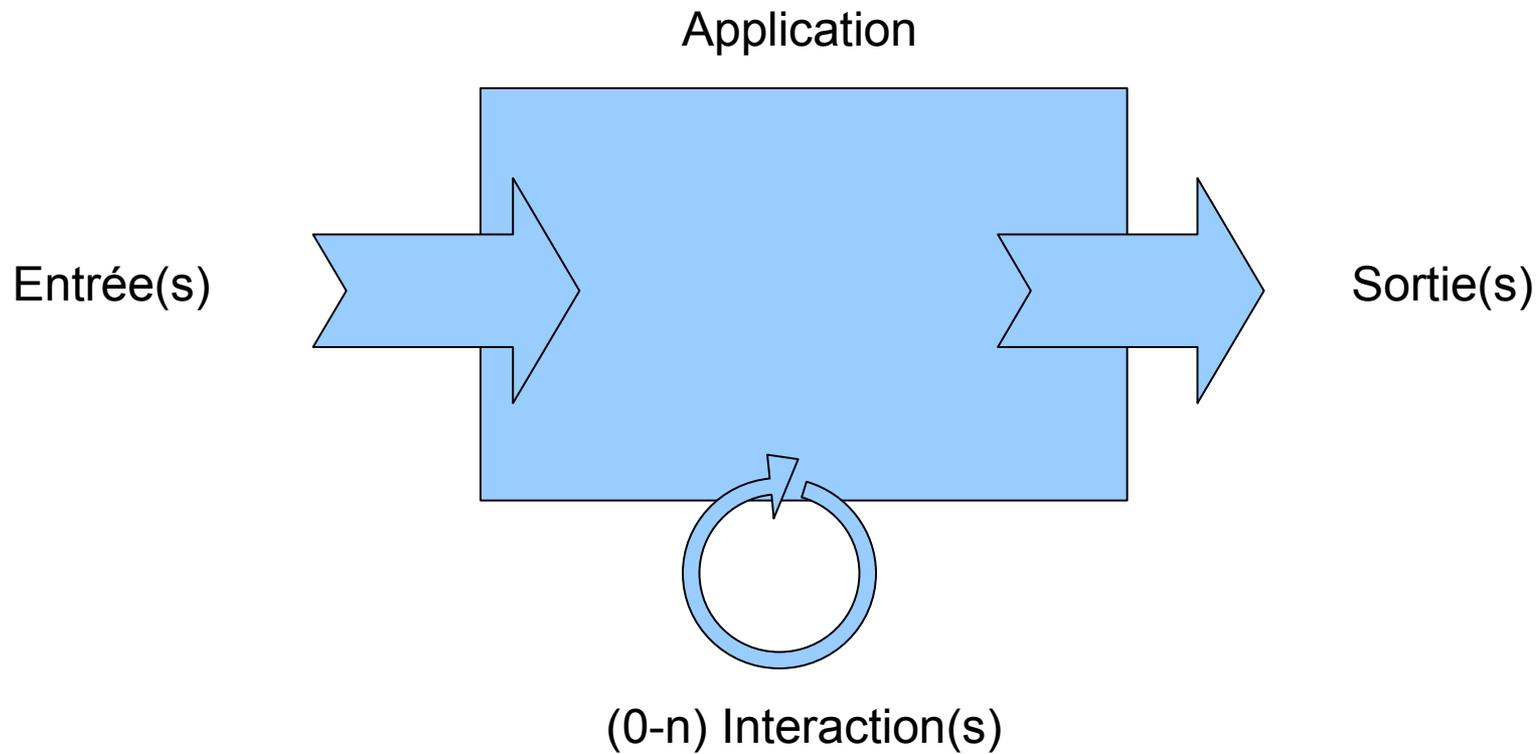
Formations avec la grille :



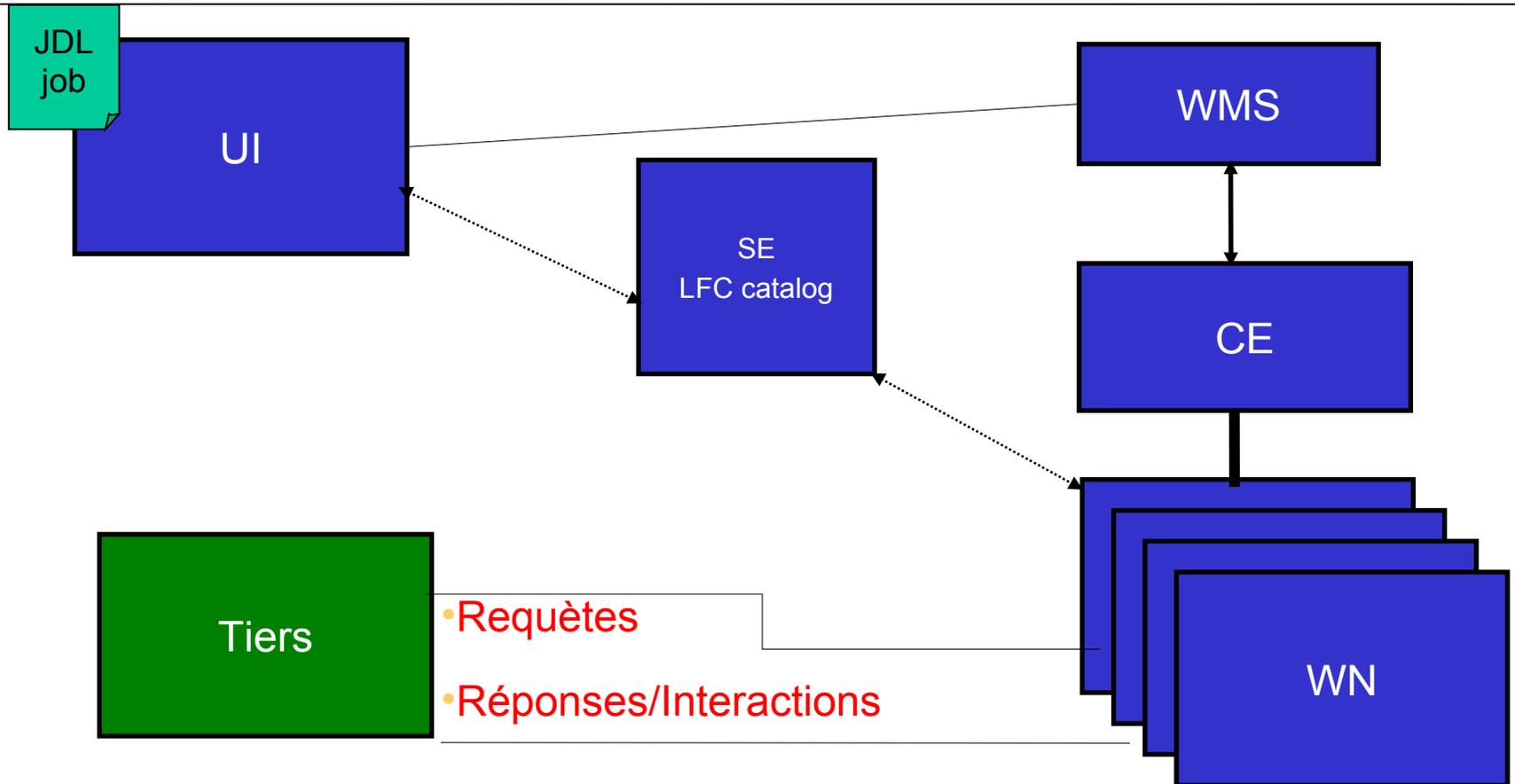
Institut Lasalle-Beauvais



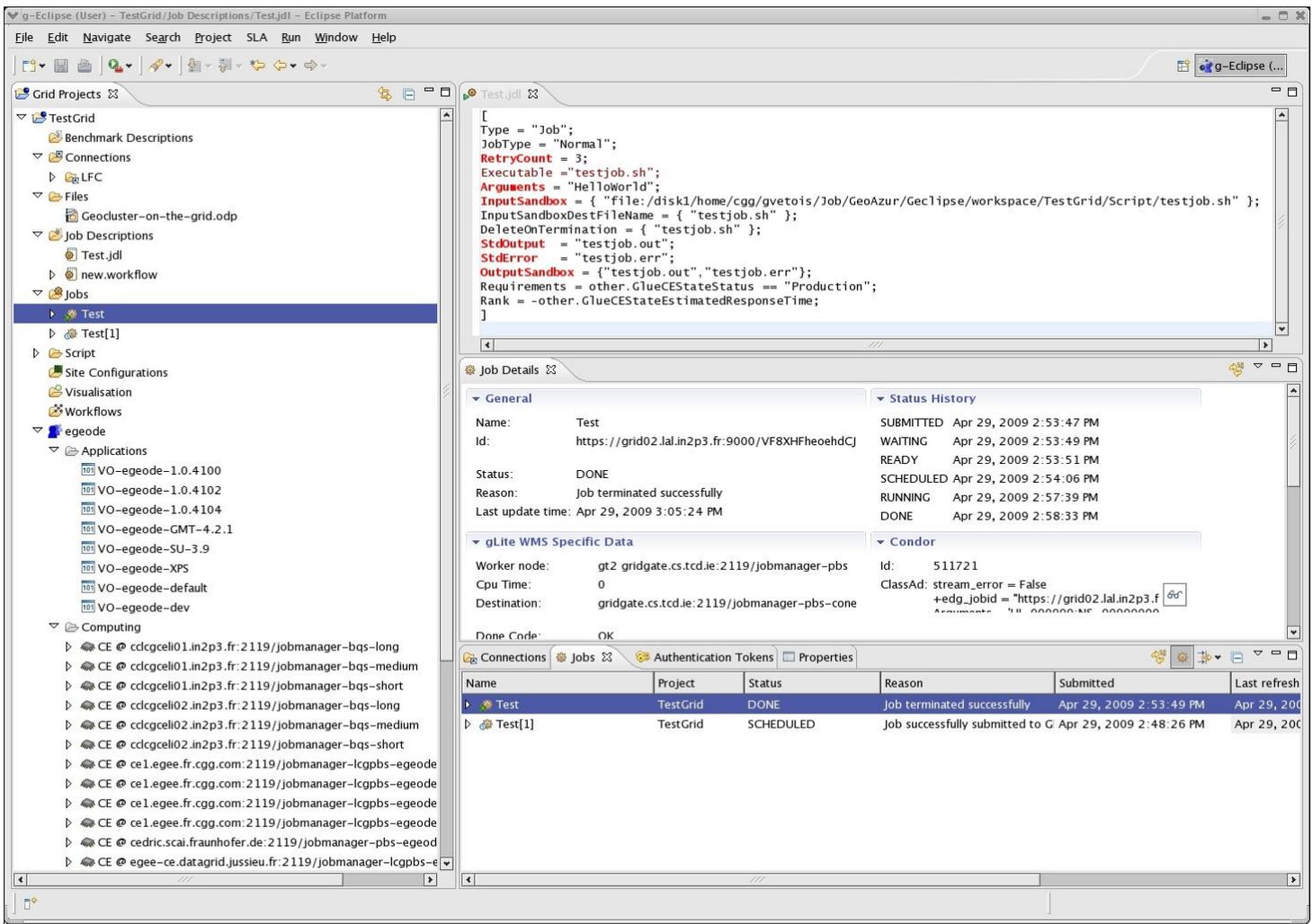
Aide au protage d'application sur la grille



Mecanisme d'execution sur la grille



Outil pour le développement d'applications sur la grille



G-Eclipse

Vue du projet

Vue données SE

Vue site grille

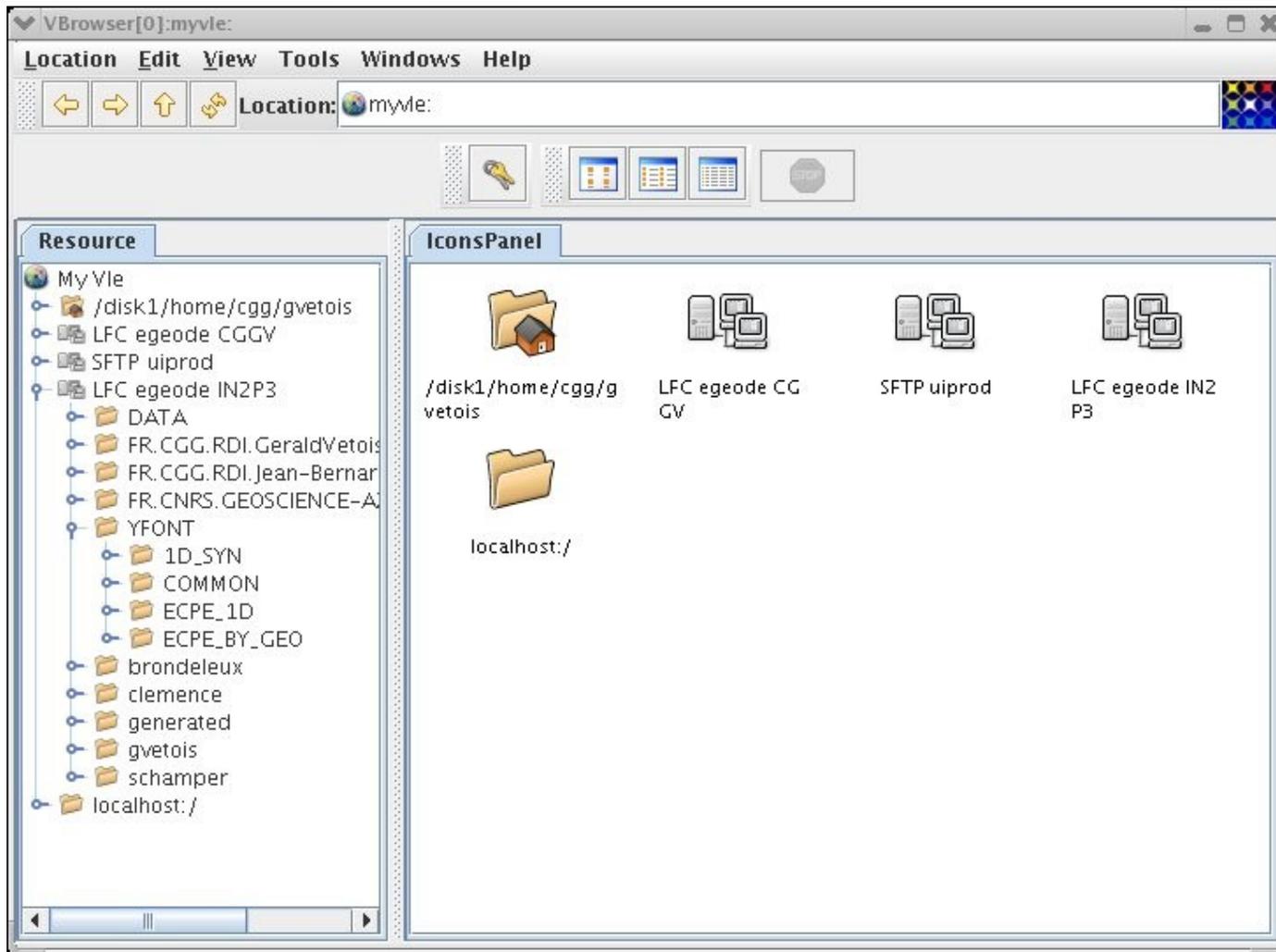
Créer des jobs JDL

Suivi des jobs

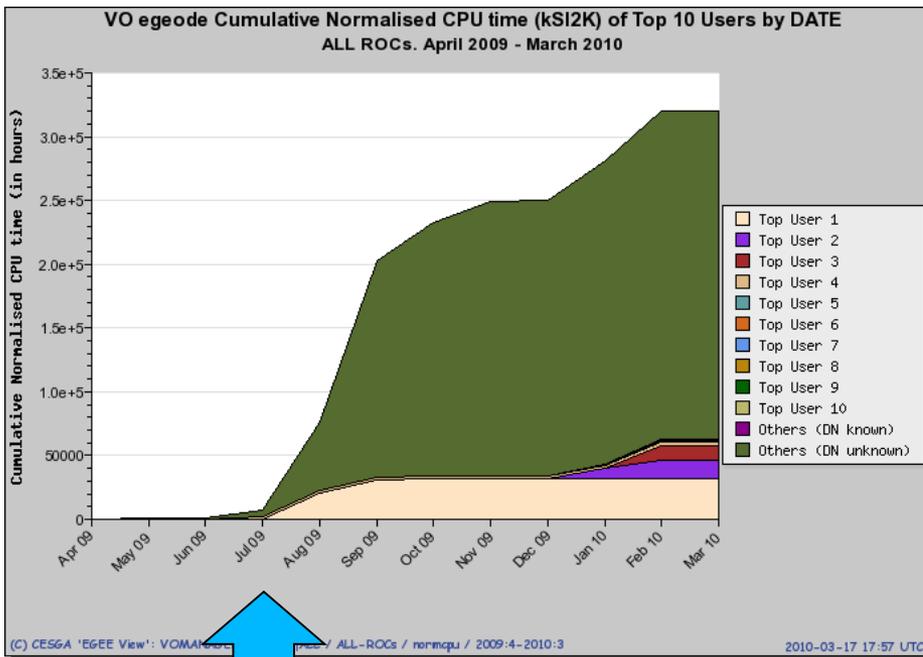
Visualiser des résultats



Vbrowser : explorer de fichier de Biomed



Projets en cours



Adoption de l'infrastructure

Clémence Basuyau - (MPI)

Laure Schenni (GCT - Spirale)

Yvonne Font (sismologie - multi-jobs)

Elia d'Acremont (GCT - golf d'Aden)

Cyril Schamper & Fayçal Rajiba (MPI)