



new features of earthquake CMT determination on the EGEE grid

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At the EGU 2008 general assembly, we presented the "gridification" on EGEE of an embarrassingly parallel CMT determination application. This allowed the code to be routinely completed in a short timeframe at the occurrence of major earthquakes despite heavy CPU needs.

Since then, a grid-enabled database has been added in order to effectively register (or to pre-compute) reusable intermediary results (namely synthetic seismograms) that account for about 80% of the CPU consumption. This now gives the application the possibility to be completed in a few minutes rather than a few hours provided the synthetic seismograms are already available. In the end, the application that used to be penalized by its heavy CPU needs is relocated in the core of a data driven workflow.