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Application porting activities at INFN

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The application porting activities at INFN aimed at supporting the gridification of two scientific applications. For both of them a computing Grid environment has been set up in order to allow :

- a bioinformatics application:
- to cope with the submission and the monitoring of a huge number of jobs and deal with possible failures and resubmissions. The Job Submission Tool (JST) developed by INFN Bari has been introduced to address these issues and make easier its management
- to use robot certificate (also known as portal certificate) in order to access the massive potential of grid technology without take care of the complexity of the GSI authentication. The adoption of these new certificates, associated with the application user's expert wants to share with all the Grid community, permit users, who are not familiar to deal with personal certificate and belong to a VO, to experience the grid paradigm for research activity.
- the ASTRA (Ancient instruments Sound/Timbre Reconstruction Application) project (<http://www.astraproject.org/>) to boost the reconstruction process of several ancient musical instruments by configuring the Grid infrastructure with all the needed libraries requested by ASTRA and developing a set of high level services on board of the GENIUS Grid Portal to permit users to perform reconstruction processes using a user's friendly interface and disseminate the scientific results achieved so far. Thanks to this environment the sound of several ancient musical instruments have been successfully reconstructed. Visit this link <http://www.astraproject.org/download.html> for further information.

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