

T2K LCG Portal

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A working prototype portal for the LHC Computing Grid (LCG) is being customised for use by the T2K 280m Near Detector software group. This portal is capable of submitting jobs to the LCG and retrieving the output on behalf of the user. The T2K specific development of the portal will create customised submission systems for the suites of production and analysis software being written by the T2K software team. These software suites are computationally intensive, and therefore warrant utilisation of the LCG. The portal runs on an Apache server with the GridSite module. It is accessed over https, identifying users by their Certificate Authority signed Grid certificate. A user can upload files to the portal, as well as edit them, using the GridSite CGI. Proxy certificates are created on a users desktop/laptop machine using a JavaWebStart program that does the equivalent of a voms-proxy-init using the user's Grid certificate, and this limited time proxy is then securely put on the portal. Once there, the proxy is available exclusively to that user to utilise in submitting jobs to the LCG. The portal may also be used as a joint collaborative site for the experiment. GridSite makes it easy to have joint responsibility for maintaining public web pages spread amongst collaboration members. Other collaborative tools such as diaries and lists of publications and submitted abstracts are also easily implementable.

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