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Evolution of the T2K-ND280 Computing Model

ND280 is the off-axis near detector for the T2K neutrino experiment; it is designed to characterize the un-oscillated T2K neutrino beam and measure neutrino cross-sections. We have developed a complicated system for processing and simulating the ND280 data, using computing resources from North America, Europe and Japan.

Recent work has concentrated on unifying our computing framework across these regions. In particular, we have started using two HEP tools: GANGA and DIRAC. GANGA has provided a unified framework for users scripts; using a unified scripting framework makes it easier for a smaller number of people to maintain and run a multiple types of production scripts. DIRAC is a framework providing a suite of tools for HEP comput-ing. In particular, we have been testing DIRAC as a Workload Manager Server (WMS), replacing the original EGI WMS.

We will describe our experiences with these developments of the ND280 computing model.

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