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GridX1: A Canadian Particle Physics Grid

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GridX1, a Canadian computational Grid, combines the resources of various Canadian research institutes and universities through the Globus Toolkit and the CondorG resource broker (RB). It has been successfully used to run ATLAS and BaBar simulation applications. GridX1 is interfaced to LCG through a RB at the TRIUMF Laboratory (Vancouver), which is an LCG computing element, and ATLAS jobs are routed to Canadian resources. Recently, the BaBar application has also been implemented to run jobs through GridX1, concurrently with ATLAS jobs. Two independent RBs are being used to submit ATLAS and BaBar jobs for an efficient operation of the grid. The status of grid jobs and the resources are monitored using a web-based monitoring system.

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