

GPU Solutions for PSCAD: IT17112

Reporting Period	April 9, 2020 - April 16, 2020
Activities	<ul style="list-style-type: none">• Wrote set-up instructions for QRFactor when compiling on Windows systems using Visual Studio 2019. This document will also include directions for compiling/deploying on Linux systems.• Investigated transferring QRFactor to U of W servers.• For better flexibility and compatibility, the U of W servers now use Docker for program development. To run CUDA on these servers, Docker must be used to pull the correct operating system, packages, and libraries.• Found resources for learning Docker and setting up CUDA using containers.
Issues	<ul style="list-style-type: none">• None
Milestones Accomplished	<ul style="list-style-type: none">• Learned about using Docker for development and deployment; found resources for setting up CUDA via Docker
Milestones Not Accomplished	<ul style="list-style-type: none">• Load & run matrix solving on U of W servers
Next Week's Milestones	<ul style="list-style-type: none">• Use Docker to create CUDA environment, learn to import data and allocate resources for the container.• Full run of <i>Province</i> data on U of W servers.
Forwarded Issues	<ul style="list-style-type: none">• None