Brad Cownden April 2, 2020

GPU Solutions for PSCAD: IT17112

Reporting Period	March 28, 2020 - April 2, 2020
Activities	 Added timing functions to GPU factoring, GPU solving to generate new timing sets Added check macro for comparing GPU result with CPU result Collected new timings for Debug build with six sample data sets on laptop (NVIDIA Quadro TRX 3000) QR factorization time: ~ 11ms Average QP solve time (per time step): ~ 2.4ms
Issues	• None
Milestones Accomplished	• Collected timings for single time step solve and QR factoring
Milestones Not Accomplished	• None
Next Week's Milestones	• Run new code version on all <i>Province</i> data
Forwarded Issues	• None