

Parsl Testbook Speedup ▾

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1 Accelerating QMCpy Notebook Tests with Parsl By Joshua Herman (QMC Development Team) Joint Work Dr. Sou-Cheng Choi, Illinois Tech and SouLab Globus Compute ParslFest

2 Hello! Our notebooks need to be reproducible and they are resource intensive.

3 PARSLFEST 2025

4 How are we using Parsl to speed up Testbook Execution? Testing is done with a testbook file. This is run by a Parsl worker. Runs by calling testbook notebooks. Created simple tests to evaluate Parsl.

5 Control Variables in QMCpy 1 Notebook Call To Test

6 Testbook Example Test

7 Testbook Speedup Test status: Speedups of >216% Best Execution Time: 0.000000 ms

8 Implement Testbook tests for all of our notebooks Design and build tests for our tests Get help from our team of people working

9 zitterbewegung@gmail.com https://qmcpy.org https://github.com/nteract/testbook

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Slide 1

Template style Eigengrau IBM Plex Sans

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Selection colors Color 6 Color 2 Color 5

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Accelerating QMCpy Notebook Tests with Parsl

By Joshua Herman (QMC Development Team)

Joint Work: Dr. Sou-Cheng Choi, Illinois Tech and SouLab;

Globus Compute + ParslFest

Hi I am with QMCSw

Software which is a group originating from IIT but includes people in industry. This is joint work with Dr. Sou-Cheng Choi of IIT and SouLab and the QMCPy development team