

## Accepted Manuscript

Scheduling parallel tasks with energy and time constraints on multiple manycore processors in a cloud computing environment

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PII: S0167-739X(17)30029-8

DOI: <http://dx.doi.org/10.1016/j.future.2017.01.010>

Reference: FUTURE 3292

To appear in: *Future Generation Computer Systems*

Received date: 29 February 2016

Revised date: 28 December 2016

Accepted date: 7 January 2017



Please cite this article as: K. Li, Scheduling parallel tasks with energy and time constraints on multiple manycore processors in a cloud computing environment, *Future Generation Computer Systems* (2017), <http://dx.doi.org/10.1016/j.future.2017.01.010>

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## Highlights

- Addressing energy and time constrained scheduling of precedence constrained parallel tasks;
- Deriving lower bounds for optimal solutions;
- Developing pre-power-determination algorithms and post-power-determination algorithms;
- Considering multiple manycore processors with continuous or discrete speed levels;
- Evaluating the performance of these algorithms analytically and experimentally.

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