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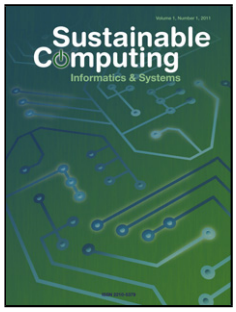

Title: Modeling of the CPU Frequency to Minimize Energy Consumption inParallel Applications

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PII: S2210-5379(16)30175-5
DOI: https://doi.org/doi:10.1016/j.suscom.2017.12.002
Reference: SUSCOM 215

To appear in:

Received date: 17-10-2016
Revised date: 10-5-2017
Accepted date: 11-12-2017

Please cite this article as: Vaibhav Sundriyal, Masha Sosonkina, Modeling of the CPU Frequency to Minimize Energy Consumption inParallel Applications, *<![CDATA[Sustainable Computing: Informatics and Systems]]>* (2017), https://doi.org/10.1016/j.suscom.2017.12.002

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Some highlights of this paper are:

1. Performance and power models to determine an expression for energy consumption in terms of operating processor frequency sans voltage.

2. Posing the problem of finding the optimal processor frequency as two minimization problems.

3. Comparing various energy-saving strategies as to their implementation features and energy-saving potential.

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