Accepted Manuscript

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

Author: Vaibhav Sundriyal Masha Sosonkina



 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

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

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 energysaving potential.

A coto Manus

Download English Version:

https://daneshyari.com/en/article/6903020

Download Persian Version:

https://daneshyari.com/article/6903020

Daneshyari.com