Call For Papers

Workshop on Power-Aware Computer Systems

PACS '04

Portland, OR, December 5, 2004

URL: http://www.ece.cmu.edu/~pacs04

to be held in conjunction with

the 37th Annual International Symposium on Microarchitecture (MICRO-37)

THEME:

The ever-increasing levels of on-chip integration in the recent decade have enabled phenomenal increases in computer system performance. Unfortunately, the performance improvement has been also accompanied by an increase in a chip's power and energy dissipation. Higher power and energy dissipation require more expensive packaging and cooling technology, increase cost, decrease product reliability in all segments of computing market, and significantly reduce battery life in portable systems.

The fourth workshop on Power-Aware Computer Systems (PACS'04) will be held in conjunction with the MICRO-37 conference. The motivation behind the workshop is to provide a forum to present issues related to power dissipation and energy consumption to the architecture community. In particular, we will discuss power and power-related issues in computer system design, to help understand and overcome the limitations of existing hardware/software solutions for power reduction. Furthermore, we will also present a forum for examining innovative solutions to the power problem for computer systems at all levels of performance.

TOPICS OF INTEREST:

The topics of interests within the domain of power-aware computer systems will include but are not limited to power/thermal reduction in desktops or servers; power/energy reduction in embedded or portable systems; power-aware architecture, compilers or OS; techniques to manage temperature; techniques to reduce switching or power/energy; tools for estimating power/energy/temperature; reliability issues related to power optimization.

PROCEEDINGS:

Formal proceedings will be published as one issue of **Springer-Verlag's "Lecture Notes in Computer Science"** (LNCS) series soon after the workshop. Informal proceedings will be handed out at the workshop.

PAPER SUBMISSIONS:

Authors are requested to submit extended abstracts not exceeding ten PDF pages in 8x11 inch format, including abstract, five key words, contact address, figures, and references. The postscript file must be viewable using Acrobat. Please send your extended abstracts via email to **pacs04@ece.cmu.edu** by **October 8th, 2004**.

SCHEDULE:

Paper submission deadline:	**October 8th, 2004**
Notification of acceptance:	October 29th, 2004
Camera-ready paper due:	November 6th, 2004

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