CALL FOR PAPERS

COLP’01
SECOND WORKSHOP ON COMPILERS AND OPERATING SYSTEMS FOR LOW POWER

in conjunction with
PACT'01
(INTERNATIONAL CONFERENCE ON PARALLEL ARCHITECTURES AND COMPILATION TECHNIQUES)

http://www.cse.psu.edu/~kandemir/colpnew2001.html
Barcelona, Spain
September 9, 2001

The second workshop on Compiler and Operating Systems on Low Power (COLP’01) is to draw together researchers and practitioners concerned with compiler and operating system support for low power for a stimulating exchange of views. We will also try to address issues such as hardware support for low power and hardware/operating system/compiler interactions. Specific topics include, but are not limited to:

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<th>Compilers</th>
<th>Operating Systems</th>
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<td>Static and dynamic compilation strategies to reduce power and energy consumption.</td>
<td>Operating system solutions for low power including dynamic power management policies and energy-efficient scheduling strategies.</td>
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<th>Power/Energy Estimation</th>
<th>Application Tuning for Low Power/Energy</th>
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<td>Estimating power and energy consumption at the high and low level for sequential and parallel architectures.</td>
<td>Application-level and algorithmic techniques to reduce power dissipation and/or energy consumption, power-aware user interfaces.</td>
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<th>Multi-Criteria Optimization</th>
<th>Architecture Support</th>
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<td>Compiler/OS optimizations that target energy, performance and code size in a unified fashion, experimental evaluation of existing techniques.</td>
<td>Architectural-level power analysis, power-efficient microprocessor design, low-power cache and main memory designs.</td>
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Submissions on new, emerging topics are particularly encouraged.


Submissions should be full-length papers of up to 6 pages (double-column format, font size 10pt to 12pt), including all illustrations, tables, references and an abstract of no more than 100 words. Papers exceeding the six-page limit will not be reviewed and will be returned to the authors.

Electronic submission in pdf or postscript format via e-mail to jxr@ee.lsu.edu is required. Please include the following information in plain text with the submission: author's name(s), postal address, phone and fax numbers, e-mail address, title, five keywords, and abstract. Hardcopy (postal or fax) submissions will not be accepted.

Authors will be notified of acceptance and rejection by August 20th, 2001, and the final papers are due by August 30th, 2001.

All submissions will be referred and workshop attendees will receive copies of all accepted papers. Papers will be accepted on the basis of novelty and relevance to the theme of the workshop. Selected papers from the papers presented in the workshop will be published as an edited book by Kluwer Academic Publishers.

More information on COLP’01 can be found at http://www.cse.psu.edu/~kandemir/colpnew2001.html.

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