

CALL FOR PAPERS

MICRO-37

December 4-8, 2004 -- Portland, OR

THE 37th ANNUAL IEEE/ACM INTERNATIONAL SYMPOSIUM ON MICROARCHITECTURE

Co-sponsored by IEEE TC- μ ARCH  and ACM SIGMICRO 

PAPER SUBMISSION DATE: May 28th, 2004



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The 37th International Symposium on Microarchitecture will be held at the Doubletree Hotel in Portland, Oregon. MICRO is the premier forum for presenting, discussing and debating new and innovative microarchitecture ideas and techniques for advanced computing and communication systems. The goal of this symposium is to bring together researchers in fields related to processor architecture, compilers, and systems, for technical exchange on traditional MICRO topics as well as new emerging research areas. Historically, the MICRO community has enjoyed having close interaction between academic researchers and industrial designers; we aim to continue and emphasize this tradition at MICRO-37. In 2004, MICRO returns to Portland, Oregon, where MICRO-25 was held. Novel papers are solicited on a broad range of topics, including, but not limited to:

- Microarchitecture and compilation techniques for instruction-level, thread-level, and memory-level parallelism
- Speculation on control flow, data flow, and synchronization
- Hardware/software based runtime/link-time optimizations
- Translation, emulation, and optimization of object code
- Workload analysis and phase detection for microarchitectures
- Multi-thread, multi-cluster, multi-core processors and systems
- Application-specific processors and integrated coprocessors
- Processors for media, data-mining, and packet processing
- Power, performance and implementation efficient designs
- Memory system optimizations: latency, bandwidth, prefetching
- Microarchitecture modeling and simulation methodology
- Measurement and analysis of real microarchitectures
- Microarchitecture support for dependability and security

Important Dates:

Abstract & Full Paper Submission Deadline: **May 28th, 2004**

Author Notification Date: **August 16th, 2004**

There is an automatic 1-week extension (June 4th, 2004) for submitting the full paper, but no extension on abstract submission. Please submit, using our website, one electronic copy of the paper in PDF format, not to exceed 22 double-spaced single-column pages and 5000 words. Consult the conference website: <http://www.microarch.org/micro37>