

# Modeling Application Performance by Convolving Machine Signatures with Application Profiles

**Title:** [Modeling Application Performance by Convolving Machine Signatures with Application Profiles](#)

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**Abstract:** This paper presents a performance modeling methodology that is faster than traditional cycle-accurate simulation, more sophisticated than performance estimation based on system peak-performance metrics, and is shown to be effective on a class of High Performance Computing benchmarks. The method yields insight into the factors that affect performance on single-processor and parallel computers.

**Reference:** @inproceedings{snavley01convolving, Author = {A.Snavely, N.Wolter, L.Carrington}, Booktitle = {IEEE 4th Annual Workshop on Workload Characterization}, Title = {Modeling Application Performance by Convolving Machine Signatures with Application Profiles}, Year = {2001}}