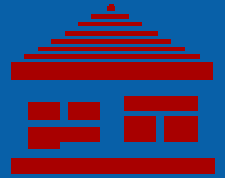


JILP



Workshop on 1st JILP Data Prefetching Championship

<http://www.jilp.org/dpc/>

Alaa Alameldeen

Intel Corporation
Organizing Committee Chair

Eric Rotenberg

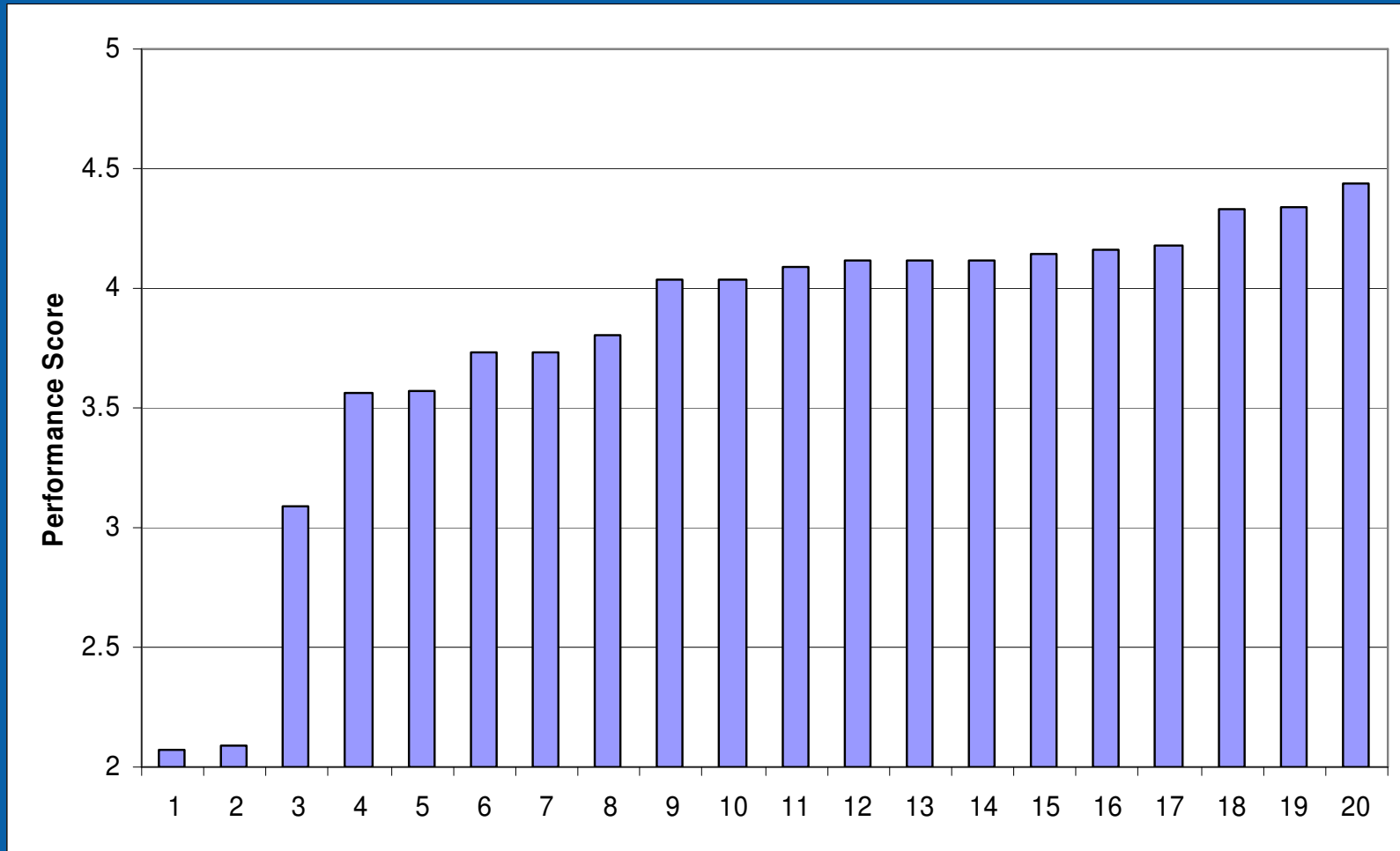
North Carolina State University
Program Committee Chair

Results Summary

Performance Score Calculation

- **Three Configurations**
 - Big L2 cache (2MB), unlimited bandwidth
 - Big L2 cache, limited bandwidth (max one L2 request every 10 cycles)
 - Small L2 cache (512KB), limited bandwidth
- **Performance score:**
 - Get speedup over no prefetching for selected SPEC2006 traces
 - Compute Geometric mean for speedups (over no pref) for each configuration
 - Score = sum of Geometric means across three configs
- **Reference points:**
 - No pref score = 3.0
 - Simple stride-based pref score = 3.27

(Anonymous) Results Summary



Top Three Prefetchers

Rank	Score	Config1 G. Mean	Config2 G. Mean	Config3 G. Mean
1	4.437	1.468	1.471	1.498
2	4.335	1.487	1.438	1.410
3	4.332	1.509	1.406	1.417

Awards

- **PC Selection for Best Paper**
 - *L. Ramos, J. Briz, P. Ibáñez, V. Viñals (University of Zaragoza, Spain)*
- **3rd Place**
 - *L. Ramos, J. Briz, P. Ibáñez, V. Viñals (University of Zaragoza, Spain)*
- **2nd Place**
 - *M. Dimitrov, H. Zhou (University of Central Florida, USA)*
- **Champion**
 - *Y. Ishii (NEC Corporation), M. Inaba, K. Hiraki (The University of Tokyo, Japan)*

Results Summary

