

## Invitation to IBM Haifa Leadership Seminar

### Compiler and Architecture Seminar 2004

December 19, 2004

<p><b>9:15 Arrival</b></p> <p><b>9:30 Welcome</b> <i>Michael Rodeh, Director, IBM Haifa Labs</i></p> <p><b>9:45 Chip-level Integration Tradeoffs—the New Frontier for Microprocessor Design</b> <i>Jaime H. Moreno, IBM T.J. Watson Research Center</i></p> <p><b>10:15 Everything You Always Wanted to Know about SCALABILITY and Were Afraid to Ask</b> <i>Ronny Ronen, Intel Israel</i></p> <p><b>10:45 Dynamically Controlled Resource Allocation in SMT Processors</b> <i>Francisco J. Cazorla, UPC, Enrique Fernandez, University of Las Palmas de Gran Canaria, Alex Ramirez, UPC, Mateo Valero, UPC</i></p> <p><b>11:15 Coffee break</b></p> <p><b>11:35 Inthreads: Code Generation and Implementation Notes</b> <i>Alex Gontmakher, Assaf Schuster, Gregory Shklover, Computer Science department, Technion</i></p> <p><b>12:05 Inserting Data Prefetches into Loops in Dynamically Translated Code in IA-32EL</b> <i>Tevi Devor, Intel Israel</i></p> <p><b>12:35 An Efficient Parallel Heap Compaction Algorithm</b> <i>Diab Abuaiadh, Yoav Ossia, Erez Petrank, Uri Silbershtein, IBM Haifa Labs</i></p>	<p><b>13:05 Lunch</b></p> <p><b>14:00 Keynote: Trends in Compilers and Programming Languages at Apple Computer</b> <i>Ted Goldstein, Apple Computer</i></p> <p><b>15:00 Autovectorization in GCC</b> <i>Dorit Naishlos, IBM Haifa Labs</i></p> <p><b>15:30 Break</b></p> <p><b>15:50 Validating the Translation of an Industrial Optimizing Compiler</b> <i>Ira Gordin, Raya Leviathan, Dept. of Computer Science, Weizmann Institute of Science and Amir Pnueli, New York University</i></p> <p><b>16:20 Stabilization Preserving and Enforcing Compiler</b> <i>Olga Brukman, Shlomi Dolev, Yinnon Haviv, Computer Science department, Ben-Gurion University and Mooly Sagiv, Computer Science department, Tel Aviv University</i></p> <p><b>16:50 Panel: Computer Architecture and Software Interactions—Outlook for the Future</b> <i>Ted Goldstein, Apple Computer, Jaime H. Moreno, IBM T.J. Watson Research Center, Ronny Ronen, Intel Israel, Alex Ramirez, UPC</i> <i>Moderated by: David Bernstein, IBM Haifa Labs</i></p> <p><b>17:20 Concluding Remarks</b></p>
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