



## Invitation to IBM's Compiler and Architecture Seminar 2002

November 25, 2002

Organized by IBM Haifa Research Lab

<http://www.haifa.il.ibm.com/Workshops/compiler2002/>

The Systems and Software department at the IBM Haifa Research Lab (HRL) cordially invites you to a full-day seminar on computer architecture and compiler optimization, to be held on Monday, Nov 25, 2002. The seminar will take place at HRL's new site on the Haifa University campus, in the auditorium (room L100), from 9:30 to 17:15. Lunch and light refreshments will be served. Participation is free. The official language of the workshop is English.

Please confirm your participation by November 18 via the seminar website.

[www.haifa.il.ibm.com/workshops/compiler2002/registration.html](http://www.haifa.il.ibm.com/workshops/compiler2002/registration.html)

### 9:30 Arrival

### 9:45 Welcome

David Bernstein, Mgr. Systems and Software, IBM Haifa Research Lab

### Session 1: Compilers

10:00 *Design of a C Compiler for EZchip Net Processor*, Gil Timmat, EZchip

10:30 *Simple Inter-procedural Register Allocation in Compiler for NP*, Mostafa Hagog, IBM Haifa Research Lab

11:00 *Compiler for a DSP Architecture*, Ayal Zaks, IBM Haifa Research Lab

### 11:30 - 11:50 Coffee Break

### Session 2: Architectures

11:50 *Self-Stabilizing Microprocessor*, Yinnon Haviv, Ben-Gurion University

12:20 *Banias – Next Generation Mobile Processor*, Ronny Ronen, Intel

### 13:00 - 14:00 Lunch

### Keynote

14:00 *Future Challenges in Computer System Design in the e-Business On Demand Era*, Kemal Ebcioğlu, IBM T.J. Watson Research Center

### Session 3: Parallel Systems

15:00 *Intrathreads – Techniques for Parallelizing Sequential Code*, Alex Gontmakher, Technion

15:30 *A New Parallel and Fully Recursive Multifrontal Supernodal Sparse Cholesky*, Gil Shklarski, Tel-Aviv University

### 16:00 - 16:20 Coffee Break

### Session 4: Memory Hierarchy

16:20 *Post-Link Optimization Technology*, Gad Haber, IBM Haifa Research Lab

16:50 *Fragmented Line Caches*, Bishara Shomar, Intel - Technion

### 17:20 Concluding Remarks

Michael Rodeh, Director, IBM Haifa Labs

### ORGANIZING COMMITTEE

David Bernstein

IBM Haifa Research Lab

Bilha Mendelson