

Schedule : Spring 2016

This is the tentative schedule of Mélange group for the Spring 2016 semester.

Mélange 1

Purpose: Recent research paper study and discussion from the Reading pool

Meet time & Place : Wednesdays 10:00 AM - 11:00 AM @ CSB 305

WEEK	DATE	TOPIC	PRESENTER
1	01/20/2016	No meeting	
2	01/27/2016	No meeting	
3	02/03/2016	Analyzing and critiquing performance data on Blur-Roberts kernel	Sanjay Rajopadhye
4	02/10/2016	No meeting	
5	02/17/2016	• Somashekaracharya G Bhaskaracharya, Uday Bondhugula, Albert Cohen, Automatic Intra-Array Storage Optimization , IISc-CSA-TR-2014-3, Nov 2014 and ACM TOPLAS, Feb 2015	Sanjay Rajopadhye
6	02/24/2016	• Martin Kong, Antoniu Pop, Louis-Noël Pouchet, Govindarajan R, Albert Cohen, Sadayappan P, Compiler/Runtime Framework for Dynamic Dataflow Parallelization of Tiled Programs , ACM TACO, Jan 2015	Nirmal Prajapati
7	03/02/2016	• Roshan Dathathri, Ravi Teja Mullapudi, Uday Bondhugula, Compiling Affine Loop Nests for a Dynamic Scheduling Runtime on Shared and Distributed Memory , TOPC 2016	Waruna Ranasinghe
8	03/09/2016	No meeting - NVIDIA Workshop	
9	03/16/2016	Spring Break	
10	03/23/2016	No meeting - Snow day	
11	03/30/2016	Talk about recent CGO, PPOPP and CC papers	Tomofumi Yuki
12	04/06/2016	• Gert-Jan Van Der Braak, Henk Corporaal, R-GPU: A Reconfigurable GPU Architecture , ACM TACO, March 2016	Revathy Rajasree
13	04/13/2016	• Linchuan Chen, Peng Jiang, Gagan Agrawal, Exploiting recent SIMD architectural advances for irregular applications , CGO, 2016	Swetha Varadarajan
14	04/20/2016	• Kota Fukumoto, Yuichiro shibata, Kiyoshi Oguri, Performance modeling and optimization of 3-D stencil computation on a stream-based FPGA accelerator , International Conference on Reconfigurable Computing and FPGAs (ReConFig), 2013	Rajbharath Chandramohan

WEEK	DATE	TOPIC	PRESENTER
15	04/27/2016	• Carlos Luque, Miquel Moreto, Franciso J. Cazorla, Mateo Valero, Fair CPU time accounting in CMP+SMT processors , ACM TACO, January 2013	Prerana Ghalsasi
16	05/04/2016	TBD	Yun Zou
17	05/11/2016	TBD	Guillaume Iooss

Mélange 2

Purpose: People present work in progress to get feedback from other members.

Meet time & Place : Thursdays 11:00 AM - Noon @ CSB 345

WEEK	DATE	TOPIC	PRESENTER
1	01/21/2016	No meeting	
2	01/28/2016	No meeting	
3	02/04/2016	Analyzing and critiquing performance data on Dsyr2k kernel	Swetha Varadarajan
4	02/11/2016	Masters Thesis Proposal	Swetha Varadarajan
5	02/18/2016	Masters Thesis Proposal	Rutuja Patil
6	02/25/2016	Discussion continued on • Martin Kong, Antoniu Pop, Louis-Noël Pouchet, Govindarajan R, Albert Cohen, Sadayappan P, Compiler/Runtime Framework for Dynamic Dataflow Parallelization of Tiled Programs , ACM TACO, Jan 2015	Entire group
7	03/03/2016	No meeting	
8	03/10/2016	No meeting - NVIDIA Workshop	
9	03/17/2016	Spring Break	
10	03/24/2016	Stencil Processing Unit	Revathy Rajasree
11	03/31/2016	No meeting	
12	04/07/2016	No meeting	
13	04/14/2016	No meeting	
14	04/21/2016	No meeting	
15	04/28/2016	TBD	
16	05/05/2016	TBD	
17	05/12/2016	TBD	

Reading Pool

Publications

2016

- Roshan Dathathri, Ravi Teja Mullapudi, Uday Bondhugula, Compiling Affine Loop Nests for a Dynamic Scheduling Runtime on Shared and Distributed Memory, 2016
- Saeed Maleki, Madanlal Musuvathi, Todd Mytkowicz, Low-Rank Methods for Parallelizing Dynamic Programming Algorithms, 2016
- Paraskevas Yiapanis, Gavin Brown, Mikel Lujan, Compiler-Driven Software Speculation for Thread-Level Parallelism, 2016
- Dimitrios Chasapis, Marc Casas, Miquel Moreto, Raul Vidal, eduard Ayguade, Jesus Labarta, Mateo Valero, PARSECS: Evaluating the Impact of Task Parallelism in the PARSEC Benchmark Suite, 2016
- Aravind Sukumaran-Rajam, Philippe Clauss, The Polyhedral Model of Nonlinear Loops, 2016
- Andrew Anderson, Avinash Malik, David Gregg, Automatic Vectorization of Interleaved Data Revisited, 2016
- Gert-Jan Van Der Braak, Henk Corporaal, R-GPU: A Reconfigurable GPU Architecture, 2016
- Linchuan Chen, Peng Jiang, Gagan Agrawal, Exploiting recent SIMD architectural advances for irregular applications, 2016
- Hao Zhou, Jingling Xue, A Compiler Approach for Exploiting Partial SIMD Parallelism, 2016

2015

- Somashekaracharya G Bhaskaracharya, Uday Bondhugula, Albert Cohen, Automatic Intra-Array Storage Optimization, 2015
- Martin Kong, Antoniu Pop, Louis-Noël Pouchet, Govindarajan R, Albert Cohen, Sadayappan P, Compiler/Runtime Framework for Dynamic Dataflow Parallelization of Tiled Programs, 2015
- Peter Kling, Peter Pietrzyk, Profitable Scheduling on Multiple Speed-Scalable Processors, 2015
- Torsten Hoefler, James Dinan, Rajeev Thakur, Brian Barrett, Pavan Balaji, William Gropp, Keith Underwood, Remote Memory Access Programming in MPI-3, 2015
- Adam Hammouda, Andrew R. Siegel, Stephen F. Siegel, Noise-Tolerant Explicit Stencil Computations for Nonuniform Process Execution Rates, 2015
- Paul Sack, William Gropp, Collective Algorithms for Multiported Torus Networks, 2015
- Grey Ballard, James Demmel, Nicholas Knight, Avoiding Communication in Successive Band Reduction, 2015
- Aurelien Bouteiller, Thomas Herault, George Bosilca, Peng Du, Jack Dongarra, Algorithm-Based Fault Tolerance for Dense Matrix Factorizations, Multiple Failures and Accuracy, 2015
- Duaue Merrill, Michael Garland, Andrew Grimshaw, High-Performance and Scalable GPU Graph Traversal, 2015

2014

- Mahesh Ravishankar, John Eisenlohr, Louis-Noël Pouchet, J. Ramanujam, Atanas Rountev, P. Sadayappan, Automatic Parallelization of a Class of Irregular Loops for Distributed Memory Systems, 2014

2013

- Kota Fukumoto, Yuichiro shibata, Kiyoshi Oguri, Performance modeling and optimization of 3-D stencil computation on a stream-based FPGA accelerator, 2013
- Carlos Luque, Miquel Moreto, Franciso J. Cazorla, Mateo Valero, Fair CPU time accounting in CMP+SMT processors, 2013

2007

- Kamen Yotov, Tom Roeder, Keshav Pingali, John Gunnels, Fred Gustavson, An experimental comparison of cache-oblivious and cache-conscious programs, 2007

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