

@inproceedings{Zou:2015:AE:2751205.2751245, author = {Zou, Yun and Rajopadhye, Sanjay}, title = {Automatic Energy Efficient Parallelization of Uniform Dependence Computations}, booktitle = {Proceedings of the 29th ACM on International Conference on Supercomputing}, series = {ICS '15}, year = {2015}, isbn = {978-1-4503-3559-1}, location = {Newport Beach, California, USA}, pages = {373-382}, numpages = {10}, url = {<http://doi.acm.org/10.1145/2751205.2751245>}, doi = {10.1145/2751205.2751245}, acmid = {2751245}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {automatic parallelization, energy consumption, hierarchical tiling, o-chip memory access, polyhedral model}, }

@INPROCEEDINGS{6718367, author={Yuki, T. and Morvan, A. and Derrien, S.}, booktitle={Field-Programmable Technology (FPT), 2013 International Conference on}, title={Derivation of efficient FSM from loop nests}, year={2013}, month={Dec}, pages={286-293}, keywords={finite state machines;pipeline processing;HLS;efficient FSM;efficient finite state machine;hardware utilization rate;high level synthesis tools;nested loop pipelining;Automata;Complexity theory;Degradation;Hardware;Optimization;Pipeline processing;Vectors}, doi={10.1109/FPT.2013.6718367}, }

@inproceedings{Yuki:2015:RLT:2771774.2771778, author = {Yuki, Tomofumi}, title = {Revisiting Loop Transformations with x10 Clocks}, booktitle = {Proceedings of the ACM SIGPLAN Workshop on X10}, series = {X10 2015}, year = {2015}, isbn = {978-1-4503-3586-7}, location = {Portland, OR, USA}, pages = {1-6}, numpages = {6}, url = {<http://doi.acm.org/10.1145/2771774.2771778>}, doi = {10.1145/2771774.2771778}, acmid = {2771778}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {X10, affine schedule, clocks, loop transformation, parallel programming, synchronization, unimodular framework}, }

@inproceedings{Elango:2014:CDM:2612669.2612694, author = {Elango, Venmugil and Rastello, Fabrice and Pouchet, Louis-Noël and Ramanujam, J. and Sadayappan, P.}, title = {On Characterizing the Data Movement Complexity of Computational DAGs for Parallel Execution}, booktitle = {Proceedings of the 26th ACM Symposium on Parallelism in Algorithms and Architectures}, series = {SPAA '14}, year = {2014}, isbn = {978-1-4503-2821-0}, location = {Prague, Czech Republic}, pages = {296-306}, numpages = {11}, url = {<http://doi.acm.org/10.1145/2612669.2612694>}, doi = {10.1145/2612669.2612694}, acmid = {2612694}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {i/o complexity, lower bounds, parallel data movement complexity, red-blue pebble game}, }

@inproceedings{Aloor:2015:UWM:2751205.2751238, author = {Aloor, Raghesh and Nandivada, V. Krishna}, title = {Unique Worker Model for OpenMP}, booktitle = {Proceedings of the 29th ACM on International Conference on Supercomputing}, series = {ICS '15}, year = {2015}, isbn = {978-1-4503-3559-1}, location = {Newport Beach, California, USA}, pages = {47-56}, numpages = {10}, url = {<http://doi.acm.org/10.1145/2751205.2751238>}, doi = {10.1145/2751205.2751238}, acmid = {2751238}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {barrier synchronization, multi-core, openmp, parallel-for loops}, }

@inproceedings{Sharma:2015:VPS:2737924.2737962, author = {Sharma, Rahul and Bauer, Michael and Aiken, Alex}, title = {Verification of Producer-consumer Synchronization in GPU Programs}, booktitle = {Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation}, series = {PLDI 2015}, year = {2015}, isbn = {978-1-4503-3468-6}, location = {Portland, OR, USA}, pages = {88-98}, numpages = {11}, url = {<http://doi.acm.org/10.1145/2737924.2737962>}, doi = {10.1145/2737924.2737962}, acmid = {2737962}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {GPUs, Verification, barrier recycling, data races, deadlock, named barriers, synchronization, warp specialization}, }

@inproceedings{Stengel:2015:QPB:2751205.2751240, author = {Stengel, Holger and Treibig, Jan and Hager, Georg and Wellein, Gerhard}, title = {Quantifying Performance Bottlenecks of Stencil Computations Using the Execution-Cache-Memory Model}, booktitle = {Proceedings of the 29th ACM on International Conference on Supercomputing}, series = {ICS '15}, year = {2015}, isbn = {978-1-4503-3559-1}, location = {Newport Beach, California, USA}, pages = {207-216}, numpages = {10}, url = {<http://doi.acm.org/10.1145/2751205.2751240>}, doi = {10.1145/2751205.2751240}, acmid = {2751240}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {multicore, optimization, performance model, stencils}, }

@inproceedings{Mehta:2015:ICS:2737924.2737954, author = {Mehta, Sanyam and Yew, Pen-Chung}, title = {Improving Compiler Scalability: Optimizing Large Programs at Small Price}, booktitle = {Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation}, series = {PLDI 2015}, year = {2015}, isbn = {978-1-4503-3468-6}, location = {Portland, OR, USA}, pages = {143-152}, numpages = {10}, url = {<http://doi.acm.org/10.1145/2737924.2737954>}, doi = {10.1145/2737924.2737954}, acmid = {2737954}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {Compiler scalability, O-molecule, optimization, polyhedral model, statement condensation}, }

@inproceedings{Ding:2015:OOA:2737924.2737989, author = {Ding, Wei and Tang, Xulong and Kandemir, Mahmut and Zhang, Yuanrui and Kultursay, Emre}, title = {Optimizing Off-chip Accesses in Multicores}, booktitle = {Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation}, series = {PLDI 2015}, year = {2015}, isbn = {978-1-4503-3468-6}, location = {Portland, OR, USA}, pages = {131-142}, numpages = {12}, url = {<http://doi.acm.org/10.1145/2737924.2737989>}, doi = {10.1145/2737924.2737989}, acmid = {2737989}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {Manycores, memory controller, off-chip accesses localization}, }

@inproceedings{Mendis:2015:HLH:2737924.2737974, author = {Mendis, Charith and Bosboom, Jeffrey and Wu, Kevin and Kamil, Shoaib and Ragan-Kelley, Jonathan and Paris, Sylvain and Zhao, Qin and Amarasinghe, Saman}, title = {Helium: Lifting High-performance Stencil Kernels from Stripped x86 Binaries to Halide DSL Code}, booktitle = {Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation}, series = {PLDI 2015}, year = {2015}, isbn = {978-1-4503-3468-6}, location = {Portland, OR, USA}, pages = {391-402}, numpages = {12}, url = {<http://doi.acm.org/10.1145/2737924.2737974>}, doi = {10.1145/2737924.2737974}, acmid = {2737974}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {Helium, autotuning, dynamic analysis, image processing, reverse engineering, stencil computation, x86 binary instrumentation}, }

@inproceedings{Sivaramakrishnan:2015:DPO:2737924.2737981, author = {Sivaramakrishnan, KC and Kaki, Gowtham and Jagannathan, Suresh}, title = {Declarative Programming over Eventually Consistent Data Stores}, booktitle = {Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation}, series = {PLDI 2015}, year = {2015}, isbn = {978-1-4503-3468-6}, location = {Portland, OR, USA}, pages = {413-424}, numpages = {12}, url = {<http://doi.acm.org/10.1145/2737924.2737981>}, doi = {10.1145/2737924.2737981}, acmid = {2737981}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {Availability, Axiomatic Contracts, CRDTs, Cassandra, Contract Classification, Decidable Logic, Distributed Transactions, Eventual Consistency, Haskell, Quelea, SMT solvers}, }

@inproceedings{Venkat:2015:LDT:2737924.2738003, author = {Venkat, Anand and Hall, Mary and Strout, Michelle}, title = {Loop and Data Transformations for Sparse Matrix Code}, booktitle =

{Proceedings of the 36th ACM SIGPLAN Conference on Programming Language Design and Implementation}, series = {PLDI 2015}, year = {2015}, isbn = {978-1-4503-3468-6}, location = {Portland, OR, USA}, pages = {521-532}, numpages = {12}, url = {<http://doi.acm.org/10.1145/2737924.2738003>}, doi = {10.1145/2737924.2738003}, acmid = {2738003}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {inspector/executor, loop transformations, non-affine, polyhedral model, sparse matrices}, }

@article{Xipeng2013, year={2013}, issn={0885-7458}, journal={International Journal of Parallel Programming}, volume={41}, number={6}, doi={10.1007/s10766-012-0236-3}, title={An Infrastructure for Tackling Input-Sensitivity of GPU Program Optimizations}, url={<http://dx.doi.org/10.1007/s10766-012-0236-3>}, publisher={Springer US}, keywords={GPU; Program Optimizations; Empirical Search; CUDA; G-ADAPT; Cross-input Adaptation}, author={Shen, Xipeng and Liu, Yixun and Zhang, EddyZ. and Bhamidipati, Poornima}, pages={855-869}, language={English} }

@inproceedings{Bertolacci:2015:PDT:2751205.2751226, author = {Bertolacci, Ian J. and Olschanowsky, Catherine and Harshbarger, Ben and Chamberlain, Bradford L. and Wonnacott, David G. and Strout, Michelle Mills}, title = {Parameterized Diamond Tiling for Stencil Computations with Chapel Parallel Iterators}, booktitle = {Proceedings of the 29th ACM on International Conference on Supercomputing}, series = {ICS '15}, year = {2015}, isbn = {978-1-4503-3559-1}, location = {Newport Beach, California, USA}, pages = {197-206}, numpages = {10}, url = {<http://doi.acm.org/10.1145/2751205.2751226>}, doi = {10.1145/2751205.2751226}, acmid = {2751226}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {chapel, diamond tiling, parallel iterators, separation of concerns, stencil computations}, }

@inproceedings{Wu:2015:EEF:2751205.2751213, author = {Wu, Bo and Chen, Guoyang and Li, Dong and Shen, Xipeng and Vetter, Jeffrey}, title = {Enabling and Exploiting Flexible Task Assignment on GPU Through SM-Centric Program Transformations}, booktitle = {Proceedings of the 29th ACM on International Conference on Supercomputing}, series = {ICS '15}, year = {2015}, isbn = {978-1-4503-3559-1}, location = {Newport Beach, California, USA}, pages = {119-130}, numpages = {12}, url = {<http://doi.acm.org/10.1145/2751205.2751213>}, doi = {10.1145/2751205.2751213}, acmid = {2751213}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {compiler transformation, data affinity, gpgpu, program co-run, scheduling}, }

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