2024/05/04 07:19 1/4 spring2017

@article{DBLP:journals/corr/ChetlurWVCTCS14,

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author
          = {Sharan Chetlur and
             Cliff Woolley and
             Philippe Vandermersch and
             Jonathan Cohen and
             John Tran and
             Bryan Catanzaro and
             Evan Shelhamer},
title
          = {cuDNN: Efficient Primitives for Deep Learning},
          = {CoRR},
journal
volume
          = \{abs/1410.0759\},
          = \{2014\},
year
url
          = {http://arxiv.org/abs/1410.0759},
timestamp = \{Sun, 02 Nov 2014 11:25:59 +0100\},
biburl
{http://dblp.uni-trier.de/rec/bib/journals/corr/ChetlurWVCTCS14},
bibsource = {dblp computer science bibliography, http://dblp.org}
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@article{Bao:2016:SDF:3012405.3011017, author = {Bao, Wenlei and Hong, Changwan and Chunduri, Sudheer and Krishnamoorthy, Sriram and Pouchet, Louis-No\"{e}l and Rastello, Fabrice and Sadayappan, P.}, title = {Static and Dynamic Frequency Scaling on Multicore CPUs}, journal = {ACM Trans. Archit. Code Optim.}, issue\_date = {December 2016}, volume = {13}, number = {4}, month = dec, year = {2016}, issn = {1544-3566}, pages = {51:1-51:26}, articleno = {51}, numpages = {26}, url = {http://doi.acm.org/10.1145/3011017}, doi = {10.1145/3011017}, acmid = {3011017}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {Affine Programs, CPU Energy, Static Analysis, Voltage and Frequency Scaling}, }

@inproceedings{Pouchet:2013:PDR:2435264.2435273, author = {Pouchet, Louis-Noel and Zhang, Peng and Sadayappan, P. and Cong, Jason}, title = {Polyhedral-based Data Reuse Optimization for Configurable Computing}, booktitle = {Proceedings of the ACM/SIGDA International Symposium on Field Programmable Gate Arrays}, series = {FPGA '13}, year = {2013}, isbn = {978-1-4503-1887-7}, location = {Monterey, California, USA}, pages = {29-38}, numpages = {10}, url = {http://doi.acm.org/10.1145/2435264.2435273}, doi = {10.1145/2435264.2435273}, acmid = {2435273}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {compilation, data reuse, high-level synthesis, program transformations}, }

@article{Kong:2013:PTM:2499370.2462187, author = {Kong, Martin and Veras, Richard and Stock, Kevin and Franchetti, Franz and Pouchet, Louis-No\"{e}I and Sadayappan, P.}, title = {When Polyhedral Transformations Meet SIMD Code Generation}, journal = {SIGPLAN Not.}, issue\_date = {June 2013}, volume = {48}, number = {6}, month = jun, year = {2013}, issn = {0362-1340}, pages = {127-138}, numpages = {12}, url = {http://doi.acm.org/10.1145/2499370.2462187}, doi = {10.1145/2499370.2462187}, acmid = {2462187}, publisher = {ACM}, address = {New York, NY, USA}, keywords = {affine scheduling, autotuning, compiler optimization, loop transformations, program synthesis}, }

@article{cummins2017synthesizing,

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title={Synthesizing benchmarks for predictive modeling},

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year={2017}
} @article{optimistic2017,
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title={Optimistic Loop Optimization},
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author={Doerfert, Johannes and Grosser, Tobias and Hack, Sebastian},

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year={2017}
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= "Minimizing the cost of iterative compilation with active
title
learning",
         = "Active Learning, Compilers, Iterative Compilation, Machine
keywords
Learning, Sequential Analysis; ",
author
          = "William Ogilvie and Pavlos Petoumenos and Zheng Wang and Hugh
Leather",
          = "Date of Acceptance: 25/10/2016",
note
year
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          = "10",
booktitle = "The International Symposium on Code Generation and Optimization
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@inproceedings{Putnam:2014:RFA:2665671.2665678, author = {Putnam, Andrew and Caulfield, Adrian M. and Chung, Eric S. and Chiou, Derek and Constantinides, Kypros and Demme, John and Esmaeilzadeh, Hadi and Fowers, Jeremy and Gopal, Gopi Prashanth and Gray, Jan and Haselman, Michael and Hauck, Scott and Heil, Stephen and Hormati, Amir and Kim, Joo-Young and Lanka, Sitaram and Larus, James and Peterson, Eric and Pope, Simon and Smith, Aaron and Thong, Jason and Xiao, Phillip Yi and Burger, Doug}, title = {A Reconfigurable Fabric for Accelerating Large-scale Datacenter Services}, booktitle = {Proceeding of the 41st Annual International Symposium on Computer Architecuture}, series = {ISCA '14}, year = {2014}, isbn = {978-1-4799-4394-4}, location = {Minneapolis, Minnesota, USA}, pages = {13-24}, numpages = {12}, url = {http://dl.acm.org/citation.cfm?id=2665671.2665678}, acmid = {2665678}, publisher = {IEEE Press}, address = {Piscataway, NJ, USA}, }

## [download]

@miscellaneous{accelerating-deep-convolutional-neural-networks-using-specialized-hardware, author = {Kalin Ovtcharov, Olatunji Ruwase, Joo-Young Kim, Jeremy Fowers, Karin Strauss, Eric Chung}, title

2024/05/04 07:19 3/4 spring2017

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= {Accelerating Deep Convolutional Neural Networks Using Specialized Hardware}, booktitle = {}, year = {2015}, month = {February}, abstract = {
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We describe the design of a convolutional neural network accelerator running on a Stratix V FPGA. The design runs at three times the throughput of previous FPGA CNN accelerator designs. We show that the throughput/watt is significantly higher than for a GPU, and project the performance when ported to an Arria 10 FPGA.

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}, publisher = {Microsoft Research}, url =
{https://www.microsoft.com/en-us/research/publication/accelerating-deep-convolutional-neural-netwo
rks-using-specialized-hardware/}, address = {}, pages = {}, journal = {}, volume = {}, chapter =
{}, isbn = {}, }
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author = {Audrunas Gruslys and
        R{\'{e}}mi Munos and
        Ivo Danihelka and
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              Alex Graves},
title
           = {Memory-Efficient Backpropagation Through Time},
journal
           = {CoRR},
          = \{abs/1606.03401\},
volume
           = \{2016\},
year
          = {http://arxiv.org/abs/1606.03401},
url
timestamp = {Fri, 01 Jul 2016 17:39:49 +0200},
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bibsource = {dblp computer science bibliography, http://dblp.org}
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