Bibliography `ka.bib`

Kadir Akbudak*

March 31, 2016

Blue denotes clickable links.

References

[1] K. Akbudak and C. Aykanat. Simultaneous input and output matrix partitioning for outer-product–parallel sparse matrix-matrix multiplication. *SIAM Journal on Scientific Computing*, 36(5):C568–C590, 2014.

[2] K. Akbudak, E. Kayaaslan, and C. Aykanat. Hypergraph partitioning based models and methods for exploiting cache locality in sparse matrix-vector multiplication. *SIAM Journal on Scientific Computing*, 35(3): C237–C262, 2013.

[3] Nathan Bell and Michael Garland. CUSP: Generic parallel algorithms for sparse matrix and graph computations, 2010. Version 0.1.0.

[4] Paolo Boldi, Marco Rosa, Massimo Santini, and Sebastiano Vigna. Layered label propagation: A multiresolution coordinate-free ordering for compressing social networks. In *Proceedings of the 20th international conference on World Wide Web*, Sadagopan Srinivasan, Krithi Ramamritham, Arun Kumar, M. P. Ravindra, Elisa Bertino, and Ravi Kumar, editors, ACM Press, 2011, pages 587–596.

[5] Paolo Boldi and Sebastiano Vigna. The WebGraph framework I: Compression techniques. In *Proc. of the Thirteenth International World Wide Web Conference (WWW 2004)*, Manhattan, USA, 2004, pages 595–601. ACM Press.

*(kadir.cs@gmail.com, https://sites.google.com/site/kadircs/)

[6] Erik Boman, Karen Devine, Robert Heaphy, Bruce Hendrickson, Mike Heroux, and Robert Preis. LDRD report: Parallel repartitioning for optimal solver performance. Technical Report SAND2004–0365, Sandia National Laboratories, Albuquerque, NM, Feb. 2004.

[7] Aydın Buluç and John R. Gilbert. Parallel sparse matrix-matrix multiplication and indexing: Implementation and experiments. *SIAM Journal of Scientific Computing (SISC)*, 34(4):170 – 191, 2012.

[8] Umit V Catalyurek and Cevdet Aykanat. Hypergraph-partitioning-based decomposition for parallel sparse-matrix vector multiplication. *Parallel and Distributed Systems, IEEE Transactions on*, 10(7):673–693, 1999.

[9] CP2K. CP2K home page. http://www.cp2k.org/, accessed at 2015.

[10] Paolo D'Alberto and Alexandru Nicolau. R-kleene: A high-performance divide-and-conquer algorithm for the all-pair shortest path for densely connected networks. *Algorithmica*, 47(2):203–213, 2007.

[11] Timothy A Davis and Yifan Hu. The university of florida sparse matrix collection. *ACM Transactions on Mathematical Software (TOMS)*, 38 (1):1, 2011.

[12] Zdeněk Dostál, David Horák, and Radek Kučera. Total FETI–an easier implementable variant of the FETI method for numerical solution of elliptic PDE. *Communications in Numerical Methods in Engineering*, 22(12):1155–1162, 2006.

[13] Michael A Heroux, Roscoe A Bartlett, Vicki E Howle, Robert J Hoekstra, Jonathan J Hu, Tamara G Kolda, Richard B Lehoucq, Kevin R Long, Roger P Pawlowski, Eric T Phipps, et al. An overview of the trilinos project. *ACM Transactions on Mathematical Software (TOMS)*, 31 (3):397–423, 2005.

[14] Ellis Horowitz and Sartaj Sahni. *Fundamentals of computer algorithms*. Computer Science Press, 1978.

[15] M. Karsavuran, K. Akbudak, and C. Aykanat. Locality-aware parallel sparse matrix-vector and matrix-transpose-vector multiplication on

many-core processors. *Parallel and Distributed Systems, IEEE Transactions on*, PP(99):1–1, 2015.

[16] V. Marion-Poty and Wilfrid Lefer. A wavelet decomposition scheme and compression method for streamline-based vector field visualizations. *Computers and Graphics*, 26(6):899 – 906, 2002.

[17] NVIDIA Corporation. *CUSPARSE library*, 2010.

[18] William Sawyer and Peter Messmer. Parallel grid manipulations for general circulation models. In *Parallel Processing and Applied Mathematics*, volume 2328 of *Lecture Notes in Computer Science*, Springer Berlin / Heidelberg, 2006, pages 605–608.

[19] Robert A Van De Geijn and Jerrell Watts. Summa: Scalable universal matrix multiplication algorithm. *Concurrency-Practice and Experience*, 9(4):255–274, 1997.