

Bibliography on Energy Accounting

- [ABD⁺97] J. Anderson, L. Berc, J. Dean, S. Ghemawat, M. Henzinger, S.-T. Leung, R. Sites, M. Vandervoorde, C. Waldspurger, and W. Weihl. Continuous profiling: Where have all the cycles gone? *ACM Transactions on Computer Systems*, 15(4), November 1997. DOI 10.1145/265924.265925
- [ADZ00] Mohit Aron, Peter Druschel, and Willy Zwaenepoel. Cluster reserves: a mechanism for resource management in cluster-based network servers. In *Proceedings of the International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS'00)*, pages 90–101, 2000. DOI 10.1145/339331.339383
- [AG01] Mansoor Alicherry and K. Gopinath. Predictable management of system resources for Linux. In *Proceedings of the 2001 USENIX Annual Technical Conference, FREENIX Track*, June 2001. URL http://www.usenix.org/events/usenix01/freenix01/full_papers/alicherry/alicherry.pdf
- [BDM99] Gaurav Banga, Peter Druschel, and Jeffrey Mogul. Resource containers: A new facility for resource management in server systems. In *Proceedings of the Third Symposium on Operating System Design and Implementation (OSDI'99)*, February 1999. URL <http://www.cs.rice.edu/~druschel/osdi99rc.ps.gz>
- [Bel00] Frank Bellosa. The benefits of event-driven energy accounting in power-sensitive systems. In *Proceedings of the Ninth ACM SIGOPS European Workshop 2000*, September 2000. URL http://os.ibds.kit.edu/downloads/publ_2000_bellosa_event-driven-energy-accounting.pdf
- [Bel01] F. Bellosa. The case for event-driven energy accounting. Technical Report TR-I4-01-07, University of Erlangen, Department of Computer Science, June 2001. URL <http://www4.informatik.uni-erlangen.de/TR/pdf/TR-I4-01-07.pdf>
- [BKWW03] Frank Bellosa, Simon Kellner, Martin Waitz, and Andreas Weißel. Event-driven energy accounting for dynamic thermal management. Technical Report TR-I4-03-02, University of Erlangen, Department of Computer Science, July 2003. URL <http://www4.informatik.uni-erlangen.de/TR/pdf/TR-I4-03-02.pdf>
- [BTM00] David Brooks, Vivek Tiwari, and Margaret Martonosi. Wattch: A framework for architectural-level power analysis and optimizations. In *Proceedings of the 2nd International Symposium on Computer Architecture (ISCA'00)*, June 2000. URL <http://www.ee.princeton.edu/~dbrooks/isca2000.pdf>
- [BVLJ05] W. L. Bircher, M. Valluri, J. Law, and L. K. John. Runtime identification of microprocessor energy saving opportunities. In *Proceedings of the 2005 International Symposium on Low-Power Electronics and Design (ISLPED'05)*, pages 275–280, New York, NY, USA, August 2005. ACM Press. DOI 10.1145/1077603.1077668
- [BWVK03] Frank Bellosa, Andreas Weißel, Martin Waitz, and Simon Kellner. Event-driven energy accounting for dynamic thermal management. In *Proceedings of the Workshop on Compilers and Operating Systems for Low Power (COLP'03)*, September 2003. URL http://os.ibds.kit.edu/downloads/publ_2003_bellosa-ua_dynamic-thermal-management_article.pdf
- [CATV01] Jeff Chase, Darrell Anderson, Prachi Thakur, and Amin Vahdat. Managing energy and server resources in hosting centers. In *Proceedings of the Eighteenth Symposium on Operating System Principles (SOSP'01)*, October 2001. URL <http://www.cs.duke.edu/ari/publications/muse.pdf>
- [CM05] Gilberto Contreras and Margaret Martonosi. Power prediction for Intel XScale processors using performance monitoring unit events. In *Proceedings of the 2005 International Symposium on Low-Power Electronics and Design (ISLPED'05)*, August 2005. DOI 10.1145/1077603.1077657
- [FS99] Jason Flinn and M. Satyanarayanan. PowerScope: A tool for profiling the energy usage of mobile applications. In *Proceedings of the 2nd IEEE Workshop on Mobile Computing Systems and Applications WMCSA'99*, February 1999. DOI 10.1109/MCSA.1999.749272 URL <http://www.cs.cmu.edu/~coda/docdir/pscope99.pdf>

- [GSI⁺02] S. Gurumurthi, A. Sivasubramaniam, M. Irwin, N. Vijaykrishnan, M. Kandemir, T. Li, and L. John. Using complete machine simulation for software power estimation: The SoftWatt approach. In *Proceedings of the Eighth International Symposium on High-Performance Computer Architecture (HPCA'02)*, February 2002. URL <http://www.cs.virginia.edu/~gurumurthi/papers/hpca02.pdf>
- [HKS⁺03] J. Haid, G. Kaefer, Ch. Steger, R. Weiss, W. Schögler, and M. Manninger. Run-time energy estimation in system-on-a-chip designs. In *Proceedings of the Eighth Asia and South Pacific Design Automation Conference (ASP-DAC'03)*, pages 595–599, January 2003. DOI 10.1109/ASPDAC.2003.1195094
- [JBM01] Russ Joseph, David Brooks, and M. Martonosi. Live, runtime power measurements as a foundation for evaluating power/performance tradeoffs. In *Proceedings of the Workshop on Complexity-Effective Design, in conjunction with International Symposium on Computer Architecture (ISCA)*, June 2001. URL <http://parapet.ee.princeton.edu/papers/parapet-wced2001.pdf>
- [JM01] Russ Joseph and M. Martonosi. Run-time power estimation in high-performance microprocessors. In *Proceedings of the 2001 International Symposium on Low-Power Electronics and Design (ISLPED'01)*, August 2001. URL <http://parapet.ee.princeton.edu/papers/rjoseph-islped2001.pdf>
- [KCK⁺01] I. Kadayif, T. Chinoda, M. Kandemir, N. Vijaykirsnan, M. J. Irwin, and A. Sivasubramaniam. vEC: virtual energy counters. In *Proceedings of the 2001 ACM SIGPLAN-SIGSOFT Workshop on Program Analysis For Software Tools and Engineering PASTE'01*, June 2001. DOI 10.1145/379605.379639
- [Kel10] Simon Kellner. Flexible online energy accounting in TinyOS. In Pedro Marron, Thiemo Voigt, Peter Corke, and Luca Mottola, editors, *Proceedings of the Fourth International Workshop on Real-World Wireless Sensor Networks (RealWSN'10)*, volume 6511 of *Lecture Notes in Computer Science*, pages 62–73. Springer Berlin / Heidelberg, December 2010. DOI 10.1007/978-3-642-17520-6_6
- [NM01] Rolf Neugebauer and Derek McAuley. Energy is just another resource: Energy accounting and energy pricing in the Nemesis OS. In *Proceedings of the Eighth Workshop on Hot Topics in Operating Systems (HotOS'01)*, May 2001. DOI 10.1109/HOTOS.2001.990063
- [SBM09] Karan Singh, Major Bhadauria, and Sally A. McKee. Real time power estimation and thread scheduling via performance counters. *SIGARCH Comput. Archit. News*, 37(2):46–55, 2009. DOI 10.1145/1577129.1577137
- [SC01] Amit Sinha and Anantha Chandrakasan. JouleTrack - a web based tool for software energy profiling. In *Proceedings of the 38th Design Automation Conference (DAC'01)*, 2001. DOI 10.1145/378239.378467
- [SMH01] Phillip Stanley-Marbell and Michael Hsiao. Fast, flexible, cycle-accurate energy estimation. In *Proceedings of the 2001 International Symposium on Low-Power Electronics and Design (ISLPED'01)*, August 2001. DOI 10.1145/383082.383120
- [SPH05] David C. Snowdon, Stefan M. Petters, and Gernot Heiser. Power measurement as the basis for power management. In *Proceedings of the 2005 Workshop on Operating System Platforms for Embedded Real-Time Applications*, July 2005. URL http://www.ertos.nicta.com.au/publications/papers/Snowdon_PH_05.pdf
- [Sto10] Jan Stoess. *System Support for Distributed Energy Management in Modular Operating Systems*. PhD thesis, Karlsruhe Institute of Technology, Germany, February 2010.
- [TRJ02] T. K. Tan, A. Raghunathan, and N. K. Jha. EMSIM: An energy simulation framework for an embedded operating system. In *Proceedings of the IEEE International Symposium on Circuits and Systems ISCAS'02*, 2002. URL <http://www.princeton.edu/~cad/emsim/research/iscas2002.pdf>
- [Wai03] Martin Waitz. Accounting and control of power consumption in energy-aware operating systems. Diploma thesis, Department of Computer Science 4, January 2003. SA-IA-2002-14.

- [WB02] Andreas Weißel and Frank Bellosa. Process cruise control: Event-driven clock scaling for dynamic power management. In *Proceedings of the International Conference on Compilers, Architecture, and Synthesis for Embedded Systems (CASES'02)*, October 2002. DOI 10.1145/581630.581668
- [Wei98] Boris Weissman. Performance counters and state sharing annotations: a unified approach to thread locality. In *Proceedings of the Eighth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS'98)*, October 1998. DOI 10.1145/291069.291035
- [WHH⁺92] Carl Waldspurger, Tad Hogg, Bernardo Huberman, Jeff Kephart, and Scott Stornetta. Spawn: A distributed computational economy. *IEEE Transactions Software Engineering*, 18(2), February 1992. URL <http://www.waldspurger.org/carl/papers/spawn-tse-feb92.ps.gz>
- [ZEL05] Heng Zeng, Carla S. Ellis, and Alvin R. Lebeck. Experiences in managing energy with ECOSystem. *IEEE Pervasive Computing*, 4(1):62–68, January 2005. DOI 10.1109/MPRV.2005.1
- [ZELV03] H. Zeng, C. Ellis, A. Lebeck, and A. Vahdat. Currentcy: Unifying policies for resource management. In *Proceedings of the USENIX 2003 Annual Technical Conference*, June 2003. URL <http://www.cs.duke.edu/ari/millywatt/usenix03.pdf>
- [ZFE⁺02] Heng Zeng, Xiaobo Fan, Carla Ellis, Alvin Lebeck, and Amin Vahdat. ECOSystem: Managing energy as a first class operating system resource. In *Proceedings of the Tenth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS'02)*, October 2002. URL <http://www.cs.duke.edu/ari/millywatt/asplos02.pdf>