Prof. Dr. Thomas Ludwig
List of Publications (February 19th, 2014)

Theses

1. T. Ludwig: Methoden zur effizienten Entwicklung paralleler Werkzeuge. Habilitationsschrift. Technische Universität München, Munich, Germany, April 1998.
2. T. Ludwig: Lastverwaltungsverfahren für Mehrprozessorsysteme mit verteiltem Speicher. Doktorarbeit. Technische Universität München, Munich, Germany, December 1992.

Accepted Publications

1. Konstantinos Chasapis, Manuel F. Dolz, Michael Kuhn, Thomas Ludwig: Evaluating Power-Performace Benefits of Data Compression in HPC Storage Servers. Accepted for publication at ENERGY 2014, 2014.
2. Hashim Chunpir, A. Badewi, Thomas Ludwig: User Support System in the Complex Environment. Accepted for publication at the 16th International conference on Human Computer Interaction, 2014.
3. Hashim Chunpir, Thomas Ludwig, A. Badewi: Using Soft Systems Methodology in understanding current user-support scenario in the Climate Science Domain. Accepted for publication at the 16th International conference on Human Computer Interaction, 2014.
4. Hashim Chunpir, Thomas Ludwig, A. Badewi: A snap-shot of user support services in Earth System Grid Federation (ESGF): a use case of climate cyberinfrastructure. Accepted for the 2nd International Conference on Human Side of Service Engineering, an associate conference of 5th International Conference on Applied Human Factors and Ergonomics (AHFE), 2014

Journal Articles

1. Marc Wiedemann, Julian M. Kunkel, Michaela Zimmer, Thomas Ludwig et al.: Towards I/O Analysis of HPC Systems and a Generic Architecture to Collect Access Patterns. In Computer Science – Research and Development. Springer (Hamburg, Berlin, Heidelberg). ISC 2012, Executive Committee, CCH–Congress Center Hamburg, Germany, 2012.
2. Julian Kunkel, Timo Minartz, Michael Kuhn, Thomas Ludwig (Thomas Ludwig, editor): Towards an Energy-Aware Scientific I/O Interface – Stretching the ADIOS Interface to Foster Performance Analysis and Energy Awareness.In Computer Science – Research and Development. Series: 1, Springer (Berlin / Heidelberg, Germany), 2011.

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6. Timo Minartz, Julian Kunkel, Thomas Ludwig (Thomas Ludwig, editor): Simulation of power consumption of energy efficient cluster hardware. In Computer Science – Research and Development, Series: 3, pages 165-175. Springer (Berlin / Heidelberg, Germany), ISSN: 1865-2034, 2010.
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8. Michael Kuhn, Julian Kunkel, Thomas Ludwig: Dynamic file system semantics to enable metadata optimizations in PVFS. In Concurrency and Computation: Practice and Experience, Series: 21-14, pages 1775-1788, John Wiley and Sons Ltd. (Chichester, UK), ISSN: 1532-0626, 2009.
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14. Alexandros Stamatakis, Thomas Ludwig: The AxML Program Family for Maximum Likelihood-Based Phylogenetic Tree Inference. Concurrency and Computation: Practice and Experience. 2003.
15. Günther Rackl, Thomas Ludwig, Markus Lindermeier, Alexandros Stamatakis: Efficiently Building On-Line T ools for Distributed Heterogeneous Computing. Scientific Programming. Volume 1, number 10, pages 67-74. 2002.

16. Thomas Ludwig, Markus Lindermeier, Alexandros Stamatakis: Tool Environments in CORBA-based Medical High-Performance Computing. Future Generation Computing Systems. Volume 6, number 18, pages 841-847. 2002.
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18. Roland Wismüller, Thomas Ludwig: Interoperable Run-Time Tools for Distributed Systems – A Case Study. The Journal of Supercomputing. Volume 17, number 3, pages 277-289. Kluwer Academic Publishers, November 2000.
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Reviewed Conference Papers

1. Michaela Zimmer, Julian Kunkel, Thomas Ludwig (Julian Martin Kunkel, Thomas Ludwig, Hans Werner Meuer, editors):Towards Self-optimization in HPC I/O. In Supercomputing, Lecture Notes in Computer Science (7905), pages 422-434. Springer (Berlin, Heidelberg), ISC 2013, Leipzig, Germany, ISBN: 978-3-642-38749-4, ISSN: 0302-9743, 2013.
2. Nathanael Hübbe, Al Wegener, Julian Kunkel, Yi Ling, Thomas Ludwig (Julian Martin Kunkel, Thomas Ludwig, Hans Werner Meuer, editors): Evaluating Lossy Compression on Climate Data. In Supercomputing, Lecture Notes in Computer Science (7905), pages 343-356. Springer (Berlin, Heidelberg), ISC 2013, Leipzig, Germany, ISBN: 978-3-642-38749-4, ISSN: 0302-9743, 2013.
3. Timo Minartz, Julian M. Kunkel, Thomas Ludwig: Tracing and Visualization of Energy-Related Metrics. In 26th IEEE Interational Parallel & Distributed Processing Symposium Workshops, IEEE Computer Society, HPPAC 2012, Shanghai, China, 2012
4. Julian Kunkel, Prof. Dr. Thomas Ludwig: Visualization of MPI(-IO) Datatypes. In Applications, Tools and Techniques on the Road to Exascale Computing. Advances in Parallel Computing (22), pages 473–480, (Editors: Koen De Bosschere, Erik H. D'Hollander,

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6. Sandra Schröder, Michael Kuhn, Nathanael Hübbe, Julian Kunkel, Timo Minartz, Petra Nerge, Florens Wasserfall, Thomas Ludwig (Erwin Grosspietsch, Konrad Klöckner, editors): Scientific Computing: Performance and Efficiency in Climate Models. In Proceedings of the Work in Progress Session, 20th Euromicro International Conference on Parallel, Distributed and Network-Based Processing, SEA-Publications (31). Institute for Systems Engineering and Automation (Johannes Kepler University Linz), PDP 2012, Munich Network Management Team, Garching, Germany, ISBN: 978-3-902457-31-8, 2012.
7. Christina Janssen, Michael Kuhn, Thomas Ludwig (Erwin Grosspietsch, Konrad Klöckner, editors): Evaluating the Influence of File System Interfaces and Semantics on I/O Throughput in High Performance Computing. In Proceedings of the Work in Progress Session, 20th Euromicro International Conference on Parallel, Distributed and Network-Based Processing, SEA- Publications (31). Institute for Systems Engineering and Automation (Johannes Kepler University Linz), PDP 2012, Munich Network Management Team, Garching, Germany, ISBN: 978-3-902457-31-8, 2012.
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