



UvA-DARE (Digital Academic Repository)

Hybrid Systems for N-body Simulations

Spinnato, P.F.

Publication date
2003

[Link to publication](#)

Citation for published version (APA):

Spinnato, P. F. (2003). *Hybrid Systems for N-body Simulations*. Eigen Beheer.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

List of Publications

P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance modelling of hybrid parallel systems*, Proceedings of the TUG99 meeting, Barcelona, 1999.

P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance Analysis of Parallel N-Body Codes*, in M. Bubak; H. Afsarmanesh; R.D. Williams and L.O. Hertzberger, editors, Proceedings of the HPCN2000 Conference, LNCS vol. **1823**, pp. 249–260. Springer-Verlag, 2000.

P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance analysis of parallel N-body codes*, in L.J. van Vliet; J.W.J. Heijnsdijk; T. Kielmann and P.M.W. Knijnenburg, editors, Proceedings of the sixth annual conference of the Advanced School for Computing and Imaging, pp. 213–220. ASCI, 2000.

P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance modelling of hybrid architectures*, in U. Barberis *et al.*, editors, Proceedings of the SIMAI 2000 conference, Sommari - Abstracts, pp. 73–74. Società Italiana di Matematica Applicata e Industriale, Rome, 2000.

Bal, A., *et al.*, *The distributed ASCI supercomputer project*, Operating Systems Review, vol. **34** (4), pp. 76–96. Association for Computing Machinery, Special Interest Group on Operating Systems, 2000.

P.M.A. Sloot; P.F. Spinnato and G.D. van Albada: *N-body simulation on hybrid architectures*, in V.N. Alexandrov; J.J. Dongarra; B.A. Juliano; R.S. Renner and C.J.K. Tan, editors, Proceedings of the ICCS 2001 conference, LNCS vol. **2074**, pp. 883–892. Springer Verlag, 2001.

P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance of N-body Codes on Hybrid Machines*, Future Generation Computer Systems, **17**, 951–959, 2001.

- P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance Prediction of N-body Simulations on a Hybrid Architecture*, Computer Physics Communications, **139**, 34–44, 2001.
- P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *A Simulator for Parallel Hybrid Computer Systems*, in R.L. Lagendijk; J.W.J. Heijnsdijk; A.D. Pimentel and M.H.F. Wilkinson, editors, Proceedings of the seventh annual conference of the Advanced School for Computing and Imaging, pp. 210–219. ASCI, 2001.
- P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *A Versatile Simulation Model for Hierarchical Treecodes*, in P.M.A. Sloot; C.J.K. Tan; J.J. Dongarra and A.G. Hoekstra, editors, Proceedings of the ICCS2002 conference, LNCS vol. **2329**, pp. 176–185. Springer Verlag, 2002.
- P.F. Spinnato and S.F. Portegies Zwart, *The Infall of Dense Star Clusters in the Galactic Centre*, Proceedings of the 57th annual conference of the NAC (Dutch Astronomers Club), 2002.
- P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance Modelling of Hierarchical N-body Codes Running on Hybrid Architectures*, in E.F. Deprettere; A.S.Z. Belloum; J.W.J. Heijnsdijk and F. van der Stappen, editors, Proceedings of the eighth annual conference of the Advanced School for Computing and Imaging, pp. 211–218. ASCI, 2002.
- P.F. Spinnato; S.F. Portegies Zwart; M. Fellhauer; G.D. van Albada and P.M.A. Sloot: *Tools and Techniques for N-body Simulations*, in R. Capuzzo Dolcetta, editor, Proceedings of the 1st workshop on Computational Astrophysics in Italy: Methods and Tools, MemSAIt Suppl. Series vol. **1**, pp. 54–65. Società Astronomica Italiana, 2003.
- P.F. Spinnato; M. Fellhauer and S.F. Portegies Zwart: *The Efficiency of the Spiral-in of a Black Hole to the Galactic Centre*, Monthly Notices of the Royal Astronomical Society, in press, 2003.
- P.F. Spinnato; G.D. van Albada and P.M.A. Sloot: *Performance Modelling of Distributed Hybrid Architectures*, IEEE Transactions on Parallel and Distributed Systems, in press, 2003.



