Abstract

This bibliography records publications of Jack J. Dongarra.

Title word cross-reference

[598], 3 [826], $H$ [895], $ILU$ [871], $LU$

[254, 329, 382, 487, 225, 300, 343, 391, 395, 396, 433, 492, 523, 750, 820, 784, 808, 836,


Lightweight [826]. Limitations [654].


Maryland [964]. Massachusetts [1002].
Massive [1008]. Massively [625, 964, 938].
Master [683, 686]. Master-Worker [686].
Mathematics [455, 904, 113, 978, 1021, 1049, 1066, 1081, 1087, 1088, 1093, 1094].
Matrix-Vector [847, 768].
May [998, 999, 1059, 1060, 1061, 1082, 1083, 949, 951, 976, 1010, 1027, 1029, 1071, 1072, 1073, 1074, 932, 1054, 1055, 1056]. Mcell [608].
McLean [938]. MD [1017]. Measurement [586].
Mechanisms [661]. Meeting [982, 1067, 703, 1001, 1089, 1051, 987, 993, 1024, 920, 1086, 1014, 1047, 1080, 1064, 1084, 1092, 971].
Memory-Aware [761, 762].
Metacomputing [438, 556].
Metascheduler [569, 556]. Methodology [721, 101, 120, 351].
Methods [245, 246, 626, 305, 310, 342, 920, 905, 124, 664, 439, 472, 917, 610, 955, 336].
MIMD [260, 49]. MIMD-Machine [49].
Mini [53]. Mini-Super [53]. minimal [688].
Minimization [594, 829]. Mining [1038].
Minneapolis [916]. Minnesota [988].
Miranker [40]. Mississippi [952].
Mixed [747, 641, 655, 678, 888, 647, 845, 699, 881, 662].
Mixed-Precision [888, 647, 845, 881].
Mixing [836]. MN [916]. Model [776, 75, 95, 131, 589, 539, 623, 849, 818, 727, 728].
Model-Driven [822].
Modelling [311, 731].
Models [835, 1026, 1079, 883].
Modularity [23].
Most [33, 34, 63]. moving [778].
MP [16, 41, 44, 51, 55].
MPI [1067, 703, 1089, 1051, 1086, 1047, 1080, 1064, 1084, 1092, 971].
MP2 [25].
MPI Connect [528].
MPIConnect [436].
MPI-1 [443].
MPI-2 [592, 437].
MPP [293, 348].
MPPs [630].
Multi [698, 732, 646, 789, 769, 847, 753, 806, 783, 787, 720].
multi-component [847].
Multi-Core [698, 646, 769, 763, 806, 787].
Multi-CPU [789].
Multi-GPU [789, 769, 787].
Multi-platform [732, 783].
multi-threaded [720].
multicore [815].
multicore/many-core [815].
Multiple [698, 722, 830, 393, 757, 734, 845, 827].
Multiplication [847, 673, 223, 258, 144, 829, 712, 768].
multiplications [856, 894]. Multipole [482, 497]. Multiprocessing [16, 25].

NA-NET [167, 684]. NAG [389].
Naleczów [1021]. Naming [285, 286, 287].
Nanjing [1053]. nano [697]. nano-systems [697]. Narrow [449, 450, 451].
Narrow-Banded [449, 450, 451]. National [904, 113, 284, 289, 290]. NATO [975, 944].
NCA [1002]. Nested [145]. NET [167, 684].
Network-Based [185, 186, 1023, 303, 149]. Network-Enabled [378, 420, 422, 485, 423].
Networked [470, 272, 409, 431]. Networking [968, 981, 992, 997, 1058, 1091, 1090, 966].
Networks [334, 335, 386, 387, 393, 360, 410].
Non-GPU-resident [866].
Nonsymmetric [278, 366, 248, 408, 559, 413, 282, 206, 392].
Norfolk [945]. Norway [919]. Note [166, 204, 805, 833, 863, 716, 706, 752, 875, 887, 165]. Notice [65, 121]. novel [824].

November [960, 968, 981, 992, 997, 1058, 928, 971, 942, 1091, 914, 924, 931, 943, 977, 1090, 1053, 1017, 910]. NT [407, 471].

Numerically [619]. numerics [947].
NVIDIA [790, 855].

OpenCL [803, 732, 783]. Opening [153, 156]. OpenMP [889, 884, 867].
Optimal [797]. Optimisation [547, 579].
Optimization [870, 560, 561, 595, 635, 500, 847, 583, 894, 967]. optimizations [541].
optimized [896]. Optimizing [504, 712, 768, 599, 877]. Orange [981].
Orbit [37]. order [849]. Ordinateurs [27].
Oregon [943, 932]. Organizer [618].
Oxford [970, 941].

Race [890]. Random [627].


semi-Lagragian [773]. semiconductor [670]. Seminar [911, 930, 915].


Sequence [624, 640]. Sequencing [504, 813]. Server [575, 327, 328, 378, 379, 420, 485, 249, 221].


SIAM [923, 934, 945]. SICEDR [8]. Sided [698, 822, 592, 633, 694, 737, 714, 738, 896].


Simulated [594, 574]. Simulation [531, 995, 1007, 763]. Simulation/Visualization [531].


Sixth [905, 964, 932]. size [886]. Skinny [723]. SLHPF [415]. Small [673, 16, 25, 880, 856, 894].


Sorrento [1051, 658, 1063, 1057].

Sorcerer [553, 1025]. Sources [903].

Spain [1050, 987]. Sparse [847, 869, 641, 678, 208, 209, 236, 269, 270, 491, 492, 523, 848, 858, 885, 874, 671].

Special [674, 800, 703, 67, 658, 680, 681, 142, 174, 400, 467, 643, 687, 805, 807, 833, 863, 887, 50, 695, 635, 1016, 545, 706, 752, 671, 791].


References

system Routines: EISPACK Guide. Lecture Notes in Computer Science. Springer-Verlag, Berlin, Germany / Heidel-
berg, Germany / London, UK / etc., 1976. CODEN LNCSBD. ISBN 0-387-07546-1. ISSN 0302-9743 (print),

Guide Extension, volume 51 of Lecture Notes in Computer Science. Springer-Verlag, Berlin, Germany / Heidel-

Laboratory, Los Alamos, NM Conference proceedings LA-7491-C.


Practice and Experience, 9(3):219–226, March 1979. CODEN SPEXBL. ISSN
REFERENCES

Dongarra:1980:IA


Dongarra:1981:IA


Dongarra:1982:ASF


Dongarra:1982:EPH


Dongarra:1983:CPL


Dongarra:1983:IACa


Dongarra:1983:IACb


Dongarra:1983:IACc


REFERENCES


1984. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).


REFERENCES

**Dongarra:1985:PES**


**Dongarra:1985:PVCa**


**Dongarra:1985:PVCe**


**Dongarra:1985:SIF**


**Martin:1985:SSI**


**Dongarra:1986:CCX**


**Dongarra:1986:FPA**


**Dongarra:1986:HDM**


**Dongarra:1986:HPC**

[54] J. J. Dongarra and D. C. Sorensen. High performance computers and al-
REFERENCES


[63] Jack J. Dongarra, Linda Kaufman, and Sven Hammarling. Squeezing the most
REFERENCES


Dongarra:1986:STD


Dongarra:1986:UNE


Astfalk:1987:FPD


Chatelin:1987:SVM


Demmel:1987:PDL


Dongarra:1987:A


Dongarra:1987:A

REFERENCES

VAS. ISSN 0160-8835. LCCN QA76.6.A43 1987.

Dongarra:1987:BRM


Dongarra:1987:CBP


Dongarra:1987:DMS


Dongarra:1987:EPC


Dongarra:1987:ESF


Dongarra:1987:FPA


Dongarra:1987:IFP


REFERENCES


From the introduction: “A series of lightly edited extracts from messages that were sent over various computer networks during the period October 5, 1986–February 13, 1987”.


REFERENCES


[107] E. Anderson and J. Dongarra. Results from the initial release of LAPACK. LAPACK Working Note and Computer Science Dept. Technical Report 16 and CS-89-89, Department of Computer Science, University of Tennessee, Knoxville,
REFERENCES


Bischof:1989:LAL


Browne:1989:GBP


Demmel:1989:PDL


Dongarra:1989:ACR


Dongarra:1989:BRM


Dongarra:1989:PSL


[124] A. Greenbaum and J. Dongarra. Experiments with QR/QL methods for the symmetric tridiagonal eigenproblem. LAPACK Working Note and Computer Science Dept. Technical Report 17 and CS-89-92, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996, USA, November
REFERENCES


Dongarra:1990:ASL


Dongarra:1990:CEE


Dongarra:1990:ENS


Dongarra:1990:FSC


Dongarra:1990:IRS


Dongarra:1990:LBE

REFERENCES


REFERENCES


James Demmel, Jack Dongarra, and W. Kahan. On designing portable high performance numerical libraries. LAPACK Working Note 39, Department of Computer Science,
REFERENCES


Demmel:1991:DPHb


Dongarra:1991:BHP


Dongarra:1991:GBP


Dongarra:1991:IRS


Dongarra:1991:LPHa


Dongarra:1991:LPHb


Dongarra:1991:LWNa


Dongarra:1991:LWNb


Dongarra:1991:NNA

[167] Jack J. Dongarra and Bill Rosener. NA-NET: Numerical analysis NET.

Dongarra:1991:RAN


Dongarra:1991:RAn


Dongarra:1991:RAnb


Dongarra:1991:PLT


Dongarra:1991:PVC


Dongarra:1991:RCF


Dongarra:1991:SLS

REFERENCES


References


REFERENCES


Dongarra:1992:E


Dongarra:1992:LASa


Dongarra:1992:LASb


Dongarra:1992:LNA


Dongarra:1992:LSD


Dongarra:1992:LWN


Dongarra:1992:NCC


Dongarra:1992:PAN


Dongarra:1992:PUL

REFERENCES

Dongarra:1992:PVCa

Dongarra:1992:PVCb

Dongarra:1992:PVCc

Dongarra:1992:RCFa

Dongarra:1992:RCFb

Dongarra:1992:TAD

Pancake:1992:WSW

Anderson:1993:PLP

Barrett:1993:BBI
[216] R. Barrett, T. Chan, J. Demmel, J. Donato, J. Dongarra, V. Eijkhout,
REFERENCES


Beguelin:1993:PEC


Beguelin:1993:PHT


Beguelin:1993:THN


Beguelin:1993:VDH


Berry:1993:PPD


Choi:1993:PMT


Choi:1993:PPU

[223] Jaeyoung Choi, Jack J. Dongarra, and David W. Walker. PUMMA: Parallel Universal Matrix Multiplication Algorithms on distributed memory concurrent computers. LAPACK Working Note 57, Department of Computer Science, Uni-
REFERENCES


REFERENCES


[238] J. J. Dongarra, R. A. Van de Geijn, and R. Clint Whaley. Two dimensional ba-
REFERENCES

sic linear algebra communication sub-

programs. In Sincovec [945], pages 347–


Dongarra:1993:UGB

[239] J. J. Dongarra, R. A. van de Geijn, and

R. C. Whaley. A users’ guide to the

BLACS. Manuscript. Department of

Computer Science, University of Ten-

nessee, Knoxville, TN 37996., 1993.

Dongarra:1993:UGB

[240] J. J. Dongarra, A. Geist, R. Manchek,

and W. Jiang. Using PVM 3.0 to run

grand challenge applications on a het-

erogeneous network of parallel comput-

ers. In Sincovec [945], pages 873–877.

ISBN 0-89871-315-3. LCCN QA 76.58

S55 1993. Two volumes.

Geist:1993:PTW

[241] A. Geist, J. Dongarra, A. Beguelin,

B. Manchek, and Weicheng Jiang.

PVM takes over the world. In

IEEE [943], page 618. ISBN 0-8186-

4340-4 (paperback), 0-8186-4341-2 (mi-

crofiche), 0-8186-4342-0 (hardback),

0-8186-4346-3 (CD-ROM). ISSN 1063-

9535. LCCN QA76.5 S96 1993.

Pozo:1993:LDO


Walker. LAPACK++: a design overview

of object-oriented extensions for high performance linear algebra. In

IEEE [943], pages 162–171. ISBN 0-

8186-4340-4 (paperback), 0-8186-4341-

2 (microfiche), 0-8186-4342-0 (hard-

back), 0-8186-4346-3 (CD-ROM). ISSN

1063-9535. LCCN QA76.5 S96 1993.

URL http://www.netlib.org/utk/

people/JackDongarra/PAPERS/sc93-

++.ps.

Anonymous:1994:MMI


interface standard. The International

Journal of Supercomputer Applications and High Performance Compu-


CODEN IJSAE9. ISSN 0890-2720.

URL http://www.netlib.org/utk/

people/JackDongarra/PAPERS/.pdf.

Edited by J. Dongarra.

Barrett:1994:ABI

[244] Richard Barrett, Michael Berry,

Jack Dongarra, Victor Eijkhout, and

Charles Romine. Algorithmic bom-

bardment for the iterative solution of

linear systems: a poly-iterative ap-

proach. LAPACK Working Note 76,

Department of Computer Science,

University of Tennessee, Knoxville,

Knoxville, TN 37996, USA, August


lapack/lawns/lawn76.ps; http://

/www.netlib.org/lapack/lawnspdf/

lawn76.pdf. UT-CS-94-239, August,

1994.

Barrett:1994:TSLa

[245] Richard Barrett, Michael Berry,

Tony F. Chan, James Demmel, June

Donato, Jack Dongarra, Victor Ei-

jkhout, Roldan Pozo, Charles Romine,

and Henk van der Vorst. Templates for

the Solution of Linear Systems: Build-

ing Blocks for Iterative Methods.

Society for Industrial and Applied Math-


cs.utk.edu/linalg/templates.ps.

Barrett:1994:TSLb

[246] Richard Barrett, Michael Berry,

**REFERENCES**


**Beguelin:1994:HHN**


**Berry:1994:PPD**


**Blackford:1994:QIG**


**Browne:1994:NSR**


**Choi:1994:CNS**


**Choi:1994:CRL**

[253] Jaeyoung Choi, Jack J. Dongarra, Roldan Pozo, Danny C. Sorensen, and David W. Walker. CRPC research into linear algebra software for high

Choi:1994:DIS


Choi:1994:DPD


Choi:1994:DSS


Choi:1994:PMT


Choi:1994:PPU


Choi:1994:PSP


Dayde:1994:PBI

REFERENCES


Dongarra:1994:AAC


Dongarra:1994:AEP


Dongarra:1994:CCI


Dongarra:1994:CNS


Dongarra:1994:IHE


Dongarra:1994:IRP


Dongarra:1994:PL


Dongarra:1994:SIA

Dongarra:1994:SMLa


Dongarra:1994:SMLb


Dongarra:1994:SOO


Geist:1994:PPV


PARKBENCH:1994:PRP

[273] PARKBENCH Committee/Assembled by R. Hockney (Chairman) and M. Berry (Secretary). PARKBENCH report: Public international benchmarks for parallel computers. Scientific Programming, 3(2):101–146, Summer 1994. CODEN SCIPEV. ISSN 1058-9244 (print), 1875-919X (electronic).

Plank:1994:ABD

REFERENCES


REFERENCES


Berry:1995:PAR


Boisvert:1995:DSD


Browne:1995:LINa


Browne:1995:LINb


Browne:1995:LNV

Shirley Browne, Jack Dongarra, Stan Green, Keith Moore, Theresa Pepin, Tom Rowan, Reed Wade, and Eric Grosse. Location-independent naming for virtual distributed software repos-
REFERENCES


REFERENCES


Choi:1995:SLA

Choi:1995:SPL

Desprez:1995:PSF

Dongarra:1995:A

Dongarra:1995:BTW

Dongarra:1995:HNC

Dongarra:1995:IMS

Dongarra:1995:IVI
[305] J. Dongarra, A. Lumsdaine, R. Pozo, and K. Remington. IML++ v. 1.2: Iterative methods library reference guide. LAPACK Working Note 102, Department of Computer Science, University of Tennessee, Knoxville, TN 37996, USA, August

Dongarra:1995:LVH


Dongarra:1995:PBC


Dongarra:1995:PFI


Dongarra:1995:PVC


Dongarra:1995:RCI


Dongarra:1995:RSW


Dongarra:1995:SDU

Dongarra:1995:SDX


Dongarra:1995:SLL


Dongarra:1995:TSS


Newton:1995:OVV


Plank:1995:ADC


Barrett:1996:ABI


Blackford:1996:FIL

REFERENCES


REFERENCES


[330] Jaeyoung Choi, Jack J. Dongarra, and David W. Walker. PB-BLAS:

Choi:1996:PSP


Choi:1996:SPLa


Choi:1996:SPLb


Demmel:1996:DHNa


Demmel:1996:DHNb


Dongarra:1996:CT


Dongarra:1996:CTH


**References**


[360] James S. Plank, Youngbae Kim, and Jack Dongarra. Fault tolerant matrix operations for networks of workstations

Kim:1996:FTMb


Snir:1996:MCR


vanderSteen:1996:ORSa


Bai:1997:TMC


Walker:1996:MSM


Bai:1997:SDN


Bai:1997:SDN

REFERENCES


REFERENCES


[Dongarra:1997:CLA]


[Dongarra:1997:CSD]


[Dongarra:1997:CTH]


[Dongarra:1997:DIP]


[Dongarra:1997:DMI]


[Dongarra:1997:FTM]

REFERENCES


REFERENCES


Plank:1997:FTM


Strohmaier:1997:EHM


Strohmaier:1997:HPC


Watkins:1997:PIN


Whaley:1997:ATL


Blackford:1998:IGD


Boisvert:1998:DNLa

REFERENCES


REFERENCES


REFERENCES


REFERENCES

M. Migliardi, J. Dongarra, A. Geist, and V. Sunderam. Dynamic re-
configuration and virtual machine management in the Harness meta-
computing system. Lecture Notes in Computer Science, 1505:127–134, 
1998. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

[Petitet:1998:ARM]
A. Petitet and J. Dongarra. Algorithmic redistribution methods for 
block cyclic distributions. LAPACK Working Note 133, Department of 
Computer Science, University of Tennessee, Knoxville, TN 37996, USA, 
www.netlib.org/lapack/lawnspdf/lawn133.pdf. UT-CS-98-383, March 
1998.

[Plank:1998:DFT]
J. S. Plank, H. Casanova, M. Beck, and J. Dongarra. Deploying fault-
tolerance and task migration with Net-
LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

[Petitet:1998:NLA]
A. Petitet, H. Casanova, J. Dongarra, Y. Robert, and R. C. Wa-
shley. A numerical linear algebra problem solving environment designer’s 
perspective. LAPACK Working Note 139, Department of Computer Science, 
University of Tennessee, Knoxville, TN 37996, USA, October 1998. URL http://www.netlib.org/lapack/lawns/lawn139.ps; http://
1998.

[Saltz:1998:PTE]
Joel H. Saltz, Alan Sussman, Susan Graham, James Demmel, Scott 
Baden, and Jack Dongarra. Programming tools and environments. Com-
CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). 
URL http://www.acm.org:80/pubs/citations/journals/cacm/1998-41-
11/p64-sussman/.

[Snir:1998:MCR]
Marc Snir, Steve W. Otto, Steven Huss-Lederman, David W. Walker, 
and Jack Dongarra. MPI: The Com-
plete Reference. Volume 1, The MPI-
1 Core. MIT Press, Cambridge, 
MA, USA, second edition, September 
mitpress.mit.edu/book-home.tcl?isbn=0262692155. See also volume 2 
[437].

[Tisseur:1998:PDC]
F. Tisseur and J. Dongarra. Parallelizing the divide and conquer algorithm 
for the symmetric tridiagonal eigen-
value problem on distributed memory 
arichitectures. LAPACK Working Note 
132, Department of Computer Science,

Wasniewski:1998:HPLa


Wasniewski:1998:HPLb


Whaley:1998:ATL


Anderson:1999:LUG


Arbennz:1999:CPSa


Arbennz:1999:CPSb


Arbennz:1999:CPSc

[451] P. Arbenz, A. Cleary, J. Dongarra, and M. Hegland. A comparison of paral-
REFERENCES


Barker:1999:LUG


Beck:1999:HNG


Beck:1999:LQS


Berry:1999:AOP


Boulet:1999:AIH


Boulet:1999:STH

REFERENCES


Dongarra:1999:NLAa


Dongarra:1999:NLAB


Dongarra:1999:P


Dongarra:1999:SI


Dongarra:1999:TR


Doolin:1999:JCL


Fagg:1999:SNI


Fischer:1999:EWN

[471] Markus Fischer and Jack Dongarra. Experiences with Windows 95/NT as a cluster computing platform for parallel computing. Parallel and Distributed
REFERENCES


REFERENCES

[477] A. Beguelin, J. J. Dongarra, G. A. Geist, R. Manchek, and V. S. Sunderam. PVM software system and documentation. Email to netlib@ornl.gov, 19xx.


[Browne:2000:SCP]


[Casanova:2000:NES]


[Darema:2000:P]


[DAzvedo:2000:DIP]


[Dongarra:2000:GEI]


[Dongarra:2000:HPC]


[497] Jun Makino, John Board, Klaus Schulten, Peter Borcherds, and Rubin D. Or-
REFERENCES


REFERENCES


REFERENCES


Choi:2001:IGS


Dongarra:2001:HPCa


Dongarra:2001:BTC


Dongarra:2001:CCG


Dongarra:2001:LBP


Dongarra:2001:ISB

[516] Jack Dongarra, Piotr Luszczek, and Antoine Petitet. The LINPACK bench-

Dongarra:2001:NA


Dongarra:2001:NLT


Dongarra:2001:P


Dongarra:2001:PCC


Dongarra:2001:PVC


Dongarra:2001:QPC


Dongarra:2001:RAS


Dongarra:2001:UCT


REFERENCES


REFERENCES


[543] Micah Beck, Dorian Arnold, Alessandro Bassi, Fran Berman, Henri
REFERENCES


Dongarra:2002:HPC


Dongarra:2002:PBLa


Dongarra:2002:PBLa
REFERENCES


Dongarra:2002:PBLb


Dongarra:2002:PVC


Dongarra:2002:SAN


Dongarra:2002:SPC


Dongarra:2002:TTH


Dongarra:2002:TTH


Fagg:2002:FTM


Fagg:2002:HFTA

[557] Graham E. Fagg and Jack J. Dongarra. HARNESS fault tolerant MPI design, usage and performance issues. Technical report ???, University of Tennessee, Knoxville, Knoxville, TN 37996, USA,
REFERENCES


Fagg:2002:HFTb


Henry:2002:PIN


Hiroyasu:2002:OSU


Hiroyasu:2002:TSO


Kennedy:2002:TFP


Lee:2002:VMT


Moore:2002:ANA

REFERENCES


Moore:2002:NTC


Nakada:2002:GRP


Roche:2002:DPN


Seymour:2002:OGR


Vadhiyar:2002:MGa


Vadhiyar:2002:MGb


Vadhiyar:2002:PMS

[571] Sathish S. Vadhiyar, Graham E. Fagg, and Jack J. Dongarra. Per-
formance modeling for self adapting collective communications for MPI. In Oldehoeft [1016], page ??
CODEN JOSUED. ISSN 0920-8542 (print), 1573-0484 (electronic).

Vadhiyar:2002:POM


vanderSteen:2002:OHP


YarKhan:2002:ESU


Agrawal:2003:NPP


Beck:2003:STN


Chen:2003:SASa

[577] Zizhong Chen, Jack Dongarra, Pi-
REFERENCES


Dongarra:2003:ELLa


Dongarra:2003:ELLb


Dongarra:2003:FCA

REFERENCES


[586] Jack Dongarra, Allen Malony, Shirley Moore, Philip Mucci, and Sameer Shende. Performance instrumenta-


REFERENCES


REFERENCES

Kranzlmuller:2003:RAP


Lee:2003:VMT


Plank:2003:OPR


Seymour:2003:ATF


Vadhiyar:2003:GGB


Vadhiyar:2003:GRH


Vadhiyar:2003:POM


Vadhiyar:2003:SAG

REFERENCES


[627] Zizhong Chen and Jack J. Dongarra. Condition numbers of Gauss-


REFERENCES


[641] Alfredo Buttari, Jack J. Dongarra, Jakub Kurzak, Piotr Luszczek, and Stanimire Tomov. Using mixed precision for sparse matrix computations to enhance the performance while achieving 64-bit accuracy. LAPACK Working Note 180, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996, USA,

Dongarra:2006:SAN

Dongarra:2006:SIT

Dongarra:2006:THPb

Emad:2006:AAN

Kurzak:2006:ILA

Kurzak:2006:IMP

Langou:2006:EPBa
REFERENCES


REFERENCES

Buttari:2007:PTF

Demmel:2007:PNL

DiMartino:2007:SIS

Dongarra:2007:B

Dongarra:2007:HEC

Jeannot:2007:IRT

Kurzak:2007:IMP
REFERENCES


REFERENCES

Wasniewski:2007:EIS


Wolf:2007:AAI


Alvaro:2008:FSS


Baboulin:2008:SID


Bosilca:2008:ABF


Buttari:2008:PTF


Buttari:2008:PTQ


Buttari:2008:UMP

[678] Alfredo Buttari, Jack Dongarra, Jakub Kurzak, Piotr Luszczek, and Stan-

**Chen:2008:ABF**


**DiMartino:2008:SSG**


**Dimov:2008:SSA**


**Dongarra:2008:B**


**Dongarra:2008:MPH**


**Dongarra:2008:NNB**


**Dongarra:2008:PLB**


**Dongarra:2008:RMP**

REFERENCES

2008. CODEN IFCSEN. ISSN 0129-0541 (print), 1793-6373 (electronic).

Dongarra:2008:SSC

Gustavson:2008:LCK

Gustavson:2008:RFP

Kurzak:2008:PHP

Kurzak:2008:SSL

Ltaief:2008:PBH

Kurzak:2008:FCP

Kurzak:2008:SSL
[694] Hatem Ltaief, Jakub Kurzak, and Jack Dongarra. Parallel band two-sided matrix bidiagonalization for multicore architectures. LAPACK Working Note...
REFERENCES


Martino:2008:SSG


Tomov:2008:TDL


Vomel:2008:SAE


Agullo:2009:CSO


Baboulin:2009:ASC


Baboulin:2009:CCC


Bosilca:2009:ABF

REFERENCES


[709] Bilel Hadri, Hatem Ltaief, Emmanuel Agullo, and Jack Dongarra. Enhancing parallelism of the tile QR


factorization for multicore with GPU accelerators. LAPACK Working Note 223, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996, USA, November 25, 2009. URL http://www.netlib.org/lapack/lawnspdf/lawn223.pdf. UT-CS-09-646.

Song:2009:DTS


Tomov:2009:ARU


Youseff:2009:PES


Agullo:2010:FCB


Agullo:2010:FMN


Agullo:2010:QFT

[723] Emmanuel Agullo, Camille Coti, Jack Dongarra, Thomas Herault, and Julien Langou. QR factorization of tall and skinny matrices in a grid computing environment. LAPACK Working Note 224, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996, USA, April 6, 2010. URL http://www.netlib.org/lapack/lawnspdf/lawn224.pdf. UT-CS-10-651. Published in the Proceed-


[731] Jack Dongarra and Piotr Luszczek. Reducing the time to tune parallel dense linear algebra routines with partial execution and performance modelling. LAPACK Working Note 235, Department of Computer Science,
REFERENCES


REFERENCES


REFERENCES


[758] Peng Du, Piotr Luszczek, Stanimire Tomov, and Jack Dongarra. Soft error resilient QR factorization for hybrid system. LAPACK Working Note 252, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996, USA, July 1, 2011. URL http://www.netlib.org/
REFERENCES


[762] Azzam Haidar, Hatem Ltaief, and Jack Dongarra. Parallel reduction to condensed forms for symmetric eigenvalue problems using aggregated fine-grained and memory-aware kernels. In Lathrop et al. [1090], pages 8:1–8:11. ISBN 1-4503-0771-X. LCCN ????.


[765] Hatem Ltaief, Piotr Luszczek, and Jack Dongarra. High performance bidiagonal reduction using tile algorithms on homogeneous multicore architectures. LAPACK Working Note 247, Department of Computer Science,
REFERENCES


Ltaief:2011:PHP


Luszczek:2011:TST

[767] Piotr Luszczek, Hatem Ltaief, and Jack Dongarra. Two-stage tridiagonal reduction for dense symmetric matrices using tile algorithms on multicore architectures. LAPACK Working Note 244, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996, USA, April 18, 2011. URL http://www.netlib.org/lapack/lawnspdf/lawn244.pdf. UT-CS-11-670.

Nath:2011:OSD


Song:2011:ESM


Song:2011:STC


Vetter:2011:KBH


Watkins:2011:FA

REFERENCES


Dongarra:2012:LAL


Dongarra:2012:RDC


Du:2012:ABF


Du:2012:COT


Du:2012:PGC


Haidar:2012:ADS


Haidar:2012:THP


Jia:2012:HFM


[795] Guillaume Aupy, Anne Benoit, Thomas Héralt, Yves Robert, Frédéric Vivien,
REFERENCES


REFERENCES

Bouteiller:2013:CSC


Cao:2013:CHP


Donfack:2013:AVP


Dongarra:2013:IAS


Dongarra:2013:HQP


Dongarra:2013:IAS


Faverge:2013:DHS

Gusta:2013:LCF

Haidar:2013:IPS

Jia:2013:TER

Kurzak:2013:FPP

Li:2013:EWG

Ltaief:2013:HPB

Ma:2013:KAT

Baboulin:2014:EDR
Marc Baboulin, Dulceneia Becker,

Ballard:2014:CAS


[817]

Bosilca:2014:UMA


[818]

Dongarra:2014:ANA


[820]

Dongarra:2014:AND


[821]

Danalis:2014:BPH

Anthony Danalis, Piotr Luszczek, Gabriel Marin, Jeffrey S. Vetter, and Jack Dongarra. BlackjackBench: Portable hardware characterization with automated results’ analysis.


[819]

Dongarra:2014:MDO

REFERENCES

Dongarra:2014:PHP


Haidar:2014:NHC


Luszczek:2014:LBD


Yamazaki:2014:DIL


Yamazaki:2014:TDS


Anzt:2015:A


Anzt:2015:EAM

REFERENCES

2015. CODEN CCPEBO. ISSN 1532-0626 (print), 1532-0634 (electronic).

Bouteiller:2015:ABF


Donfack:2015:SRD


Dong:2015:FBG


Dongarra:2015:GEN


Dongarra:2015:HPI


Dongarra:2015:PPM


Faverge:2015:MLQ

REFERENCES


Haidar:2015:BMC


Haidar:2015:FBG


Haidar:2015:TBL


Reed:2015:ECB


Song:2015:SAS


Strohmaier:2015:TLP


Voevodin:2015:AOE
REFERENCES

Yamazaki:2015:CLR


Yamazaki:2015:MPC


Abdelfattah:2016:LAS


Abdelfattah:2016:POS


Anzt:2016:DOI


Anzt:2016:UIF


Baboulin:2016:DSI


Dongarra:2016:HPC

[851] Jack Dongarra, Michael A. Heroux, and Piotr Luszczek. High-


REFERENCES


REFERENCES

Kurzak:2017:DIP


Yamazaki:2017:NGR


YarKhan:2017:PPN


Abdelfattah:2018:ADT


Anzt:2018:ISA


Anzt:2018:OPE


Anzt:2018:PNP


Asch:2018:BDE

REFERENCES


Dongarra:2018:GEN


Dongarra:2018:HPC


Dongarra:2018:SVD


Gates:2018:AST

REFERENCES


REFERENCES


exploit-ai-hardware-for-traditional-hpc/. Jack Dongarra describes work to benchmark, and utilize, 16-bit floating-point formats. The new benchmark is called HPL-AI.


REFERENCES


Bell:1986:DPC


Cullum:1986:LSE


Feilmeier:1986:PCP


Wouk:1986:NCE


Anonymous:1987:ISS


Jamieson:1987:CPA


Houstis:1988:SIC

IEEE:1988:PSN


Paul:1988:PSC


Schultz:1988:NAM


Carey:1989:PSM


Cosnard:1989:PDA


Dongarra:1989:VPC


Evans:1989:PCM


Wright:1989:ACA

REFERENCES


REFERENCES


REFERENCES


REFERENCES

152

315-3. LCCN QA 76.58 S55 1993. Two volumes.

Anonymous:1994:HPC


Anonymous:1994:OON


Dongarra:1994:PSC


Dongarra:1994:PSW


Gilbert:1994:LMMP


IEEE:1994:PSH


IEEE:1994:PSP


IEEE:1994:PTI

REFERENCES


REFERENCES


[966] Heather Mary Liddell, A. Colbrook, B. Hertzberger, and P. Sloot, editors. High-performance computing and
REFERENCES


Wasniewski:1996:APC


ACM:1997:SHP


Anonymous:1997:VPC


Boisvert:1997:QNS


Bubak:1997:RAP


Dongarra:1997:PTW

[972] J. J. Dongarra and Bernard Tourancheau, editors. Proceedings of the Third...
REFERENCES


Dongarra:1997:VPP


Goscinski:1997:ICA


Grandinetti:1997:HPC


IEEE:1997:HPC


IEEE:1997:PIC


Sydow:1997:IWC

[978] Achim Sydow, editor. 15th IMACS World Congress on Scientific Compu-
REFERENCES

157


Jointly sponsored by the Computer Science Dept., University of Liverpool and Oak Ridge National Laboratory.


[984] E. D’Hollander et al., editors. Parallel computing: fundamentals, appli-
IEEE:1998:PSI


Papailiou:1998:PFE


Dongarra:1999:RAP


Heath:1999:APP


Hernandez:1999:VPP


Palma:1999:VPP

[990] José M. L. M. Palma, J. J. Dongarra, and Vicente Hernández, editors. Vector and parallel processing — VEC-

Webster:1999:WEE


ACM:2000:SHP


Tentner:2000:PHP


Dongarra:2000:RAP


Sadayappan:2000:IWP


ACM:2001:PAJ


ACM:2001:SHP

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


IEEE:2003:CIA


IEEE:2003:IPD


IEEE:2003:PCI


IEEE:2003:PIP


IEEE:2003:IPD


IEEE:2003:CIA


IEEE:2003:IPD


[1038] Hamparsum Bozdogan, editor. *Statistical Data Mining and Knowledge Dis-


IEEE:2004:CI


IEEE:2004:IPD


IEEE:2004:SIC


Kranzlmuller:2004:RAP


Sprague:2004:PAH


Wyrzykowski:2004:PPA

REFERENCES


REFERENCES

170


REFERENCES


REFERENCES


REFERENCES


Bubak:2008:CSIa


Bubak:2008:CSIb


Bubak:2008:CSIc


Chatterjee:2008:PPA


Dongarra:2008:DHP


Lastovetsky:2008:RAP


Rainer Keller, Edgar Gabriel, Michael Resch, and Jack Dongarra, editors. Recent Advances in the Message Pass-

Wyrzykowski:2010:PPAa


Wyrzykowski:2010:PPAb


Cotronis:2011:RAM


Lathrop:2011:SPI

Jeffrey Hollingsworth, editor. SC ’12: Proceedings of the International Con-
REFERENCES


