并行与分布式计算基础：参考文献

杨超
chao_yang@pku.edu.cn

2019 秋

参考文献 (1)


MPI Forum.
http://mpi-forum.org.


The OpenMP API specification for parallel programming.
http://openmp.org.


A Comprehensive MPI Tutorial Resource.
http://mpitutorial.com, 2018.


CUDA C Best Practices Guide, 2018.


CUDA C Programming Guide, 2018.


ACM Gordon Bell Prize.
https://awards.acm.org/bell.

参考文献 (2)

G. M. Amdahl.
Validity of the single processor approach to achieving large scale computing capabilities.
In *Proceedings of the April 18-20, 1967, Spring Joint Computer Conference*, AFIPS '67 (Spring), pages 483–485, New York, NY, USA, 1967. ACM.

A. Baker.
COMP322: Fundamentals of Parallel Programming.
https://wiki.rice.edu/confluence/display/PARPROG/COMP322, 2018.

B. Barney.
EC3505: Message Passing Interface (MPI).
https://computing.llnl.gov/tutorials/mpi/, 2018.

参考文献 (3)


A. Barr.
CS 179: GPU Programming.
http://courses.cms.caltech.edu/cs179/, 2018.


R. Bendale, K. Jordan, J. Heyman, C. P. S. Brian, and S. B. Walkup.
Blue Gene/P Architecture, 2008.


Blaise Barney.
Introduction to Parallel Computing.
https://computing.llnl.gov/tutorials/parallel_comp/, 2018.
[Online; accessed 14-September-2018].


B. Chapman, G. Jost, and R. V. D. Pas.
Using OpenMP - Portable Shared Memory Parallel Programming.
MIT Press, 1st edition, 2007.

参考文献 (4)

D. Culler, R. Karp, D. Patterson, A. Sahay, K. E. Schauser, E. Santos, R. Subramonian, and T. von Eicken.
LogP: Towards a realistic model of parallel computation.
In *Proceedings of the Fourth ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming*, PPoPP '93, pages 1–12, New York, NY, USA, 1993. ACM.

J. Demmel.
CS267: Applications of Parallel Computers.
`https://people.eecs.berkeley.edu/~demmel/cs267_Spr16/`, 2016.

V. Eijkhout.
Introduction to High Performance Scientific Computing.
lulu.com, 1st edition, 2015.

参考文献 (5)


Encyclopedia of Parallel Computing.
https://link.springer.com/referencework/10.1007/978-0-387-09766-4, 2011.


S. Fortune and J. Wyllie.
Parallelism in Random Access Machines.
In *Proceedings of the 10th Annual ACM Symposium on Theory of Computing, May 1-3, 1978, San Diego, California, USA*, pages 114–118, 1978.


H. Fu, J. Liao, J. Yang, L. Wang, Z. Song, X. Huang, C. Yang, W. Xue, F. Liu, F. Qiao, W. Zhao, X. Yin, C. Hou, C. Zhang, W. Ge, J. Zhang, Y. Wang, C. Zhou, and G. Yang.
The Sunway TaihuLight Supercomputer: System and Applications.
Science China Information Sciences, pages 1–16, 2016.

参考文献 (6)

F. Gebali.
Algorithms and Parallel Computing, volume 84.
John Wiley & Sons, 2011.

M. Giles.
Course on CUDA Programming on NVIDIA GPUs.
https://people.maths.ox.ac.uk/gilesm/cuda/, 2018.

M. B. Giles and I. Reguly.
Trends in high-performance computing for engineering calculations.
Philosophical Transactions of the Royal Society of London A: Mathematical, Physical and Engineering Sciences, 372(2022), 2014.

W. D. Gropp.
CS598: Designing and Building Applications for Extreme Scale Systems.
http://wgropp.cs.illinois.edu/courses/cs598-s16/, 2016.

参考文献 (7)

J. L. Gustafson.
Reevaluating Amdahl's law.
Commun. ACM, 31(5):532–533, May 1988.

G. Hager and G. Wellein.
Introduction to High Performance Computing for Scientists and Engineers.
CRC Press, Inc., 1st edition, 2010.

J. Hennessy and D. Patterson.
Computer Architecture: A Quantitative Approach.
Morgan Kaufmann, 6th edition edition, 2017.

A.-P. Hynninen.
CME 213: Introduction to Parallel Computing Using MPI, openMP, and CUDA.
`http://web.stanford.edu/class/cme213/lecture.html`, 2017.

参考文献 (8)


Karp Challenge.
`http://www.netlib.org/benchmark/karp-challenge`, 1985.


D. B. Kirk and W.-m. W. Hwu.
Programming Massively Parallel Processors: A Hands-on Approach.
Morgan Kaufmann, 3rd edition, 2016.


V. Kumar, G. Karypis, A. Gupta, and A. Grama.
Introduction to Parallel Computing.
Pearson, 2nd edition edition, 2003.


J. Laudon and D. Lenoski.
System overview of the SGI Origin 200/2000 product line.
In *Proceedings IEEE COMPCON 97. Digest of Papers*, pages 150–156, 1997.

参考文献 (9)


X. Liao, L. Xiao, C. Yang, and Y. Lu.
MilkyWay-2 Supercomputer: System and Application.
Frontiers of Computer Science, 8:345–356, 2014.


P. Luszczek.
COSC462: Parallel Programming.
http://www.icl.utk.edu/~luszczek/teaching/courses/fall2016/cosc462/, 2016.


T. Mattson, H. He, and A. Koniges.
OpenMP Common Core: Making OpenMP Simple Again.
MIT Press, 1st edition, 2019.


J. Mellor-Crummey.
COMP 422/534: Parallel Computing.
https://www.clear.rice.edu/comp422/, 2018.

参考文献 (10)


H. Meuer, E. Strohmaier, J. Dongarra, H. Simon, and M. Martin.
Top 500 supercomputer lists, 1993.
[Online; accessed 14-September-2018].


M. Quinn.
Parallel Programming in C with MPI and OpenMP.
McGraw-Hill Education, 2003.


J. Rehman.
Difference between serial and parallel processing, 2017.
[Online; accessed 14-September-2018].


E. Solomonik.
CS 598: Communication Cost Analysis of Algorithms.
http://solomon2.web.engr.illinois.edu/teaching/cs598_fall2016/index.html, 2016.

参考文献 (11)


X.-H. Sun.
Concurrent Average Memory Access Time (C-AMAT).
http://www.cs.iit.edu/~scs/research/c-amat/c-amat.html, 2017.


The UITS Knowledge Management team.
Understanding measures of supercomputer performance and storage system capacity, 2018.
[Online; accessed 14-September-2018].


L. G. Valiant.
A bridging model for parallel computation.
Communications of the ACM, 33(8):103–111, Aug. 1990.


R. van der Pas, E. Stotzer, and C. Terboven.
Using OpenMP - The Next Step.
MIT Press, 1st edition, 2017.

参考文献 (12)


R. van Engelen.
ISC5318/CIS5930: High Performance Computing and Scientific Computing.
http://www.cs.fsu.edu/~engelen/courses/HPC/, 2017.


Wikipedia contributors, 2011.
[Online; accessed 14-September-2018].


S. Williams, A. Waterman, and D. Patterson.
Roofline: An insightful visual performance model for multicore architectures.
Communications of the ACM, 52(4):65–76, Apr. 2009.


Y. Yan.
CSCE569: Parallel Computing.
https://passlab.github.io/CSCE569/, 2018.

参考文献 (13)


T. Yang.
CS 240A: Applied Parallel Computing.
http://www.cs.ucsb.edu/~tyang/class/240a17/, 2017.


张林波，迟学斌，莫则尧，李若.
并行计算导论.
清华大学出版社, 2006.


陈国良.
并行计算: 结构算法编程 (第 3 版).
高等教育出版社, 第 3 版 edition, 2011 年 6 月 1 日.