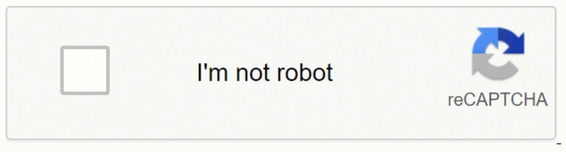
Parallel programming with mpi pachec



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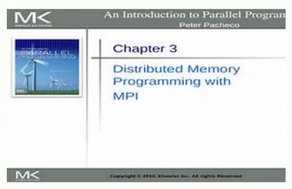

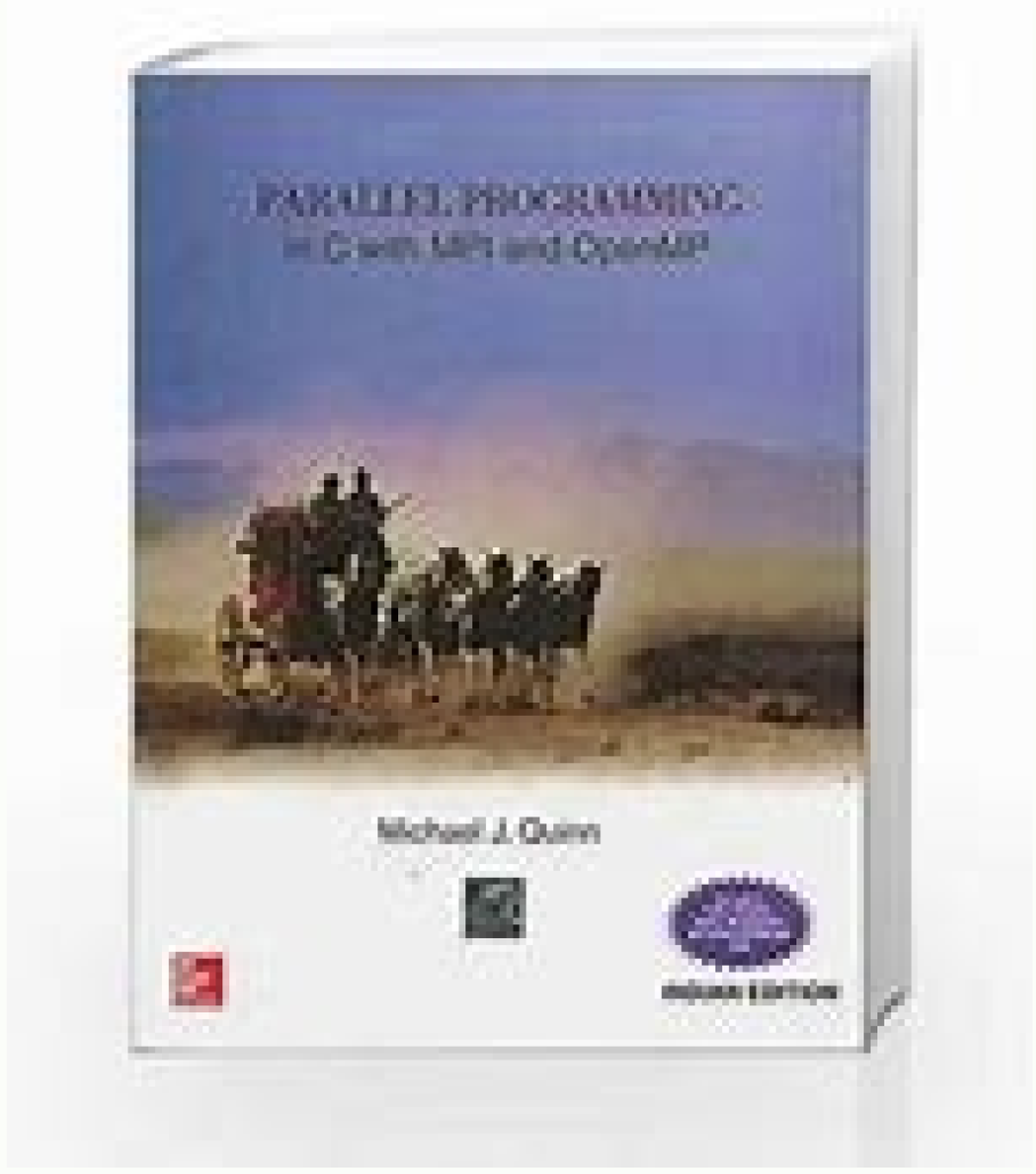

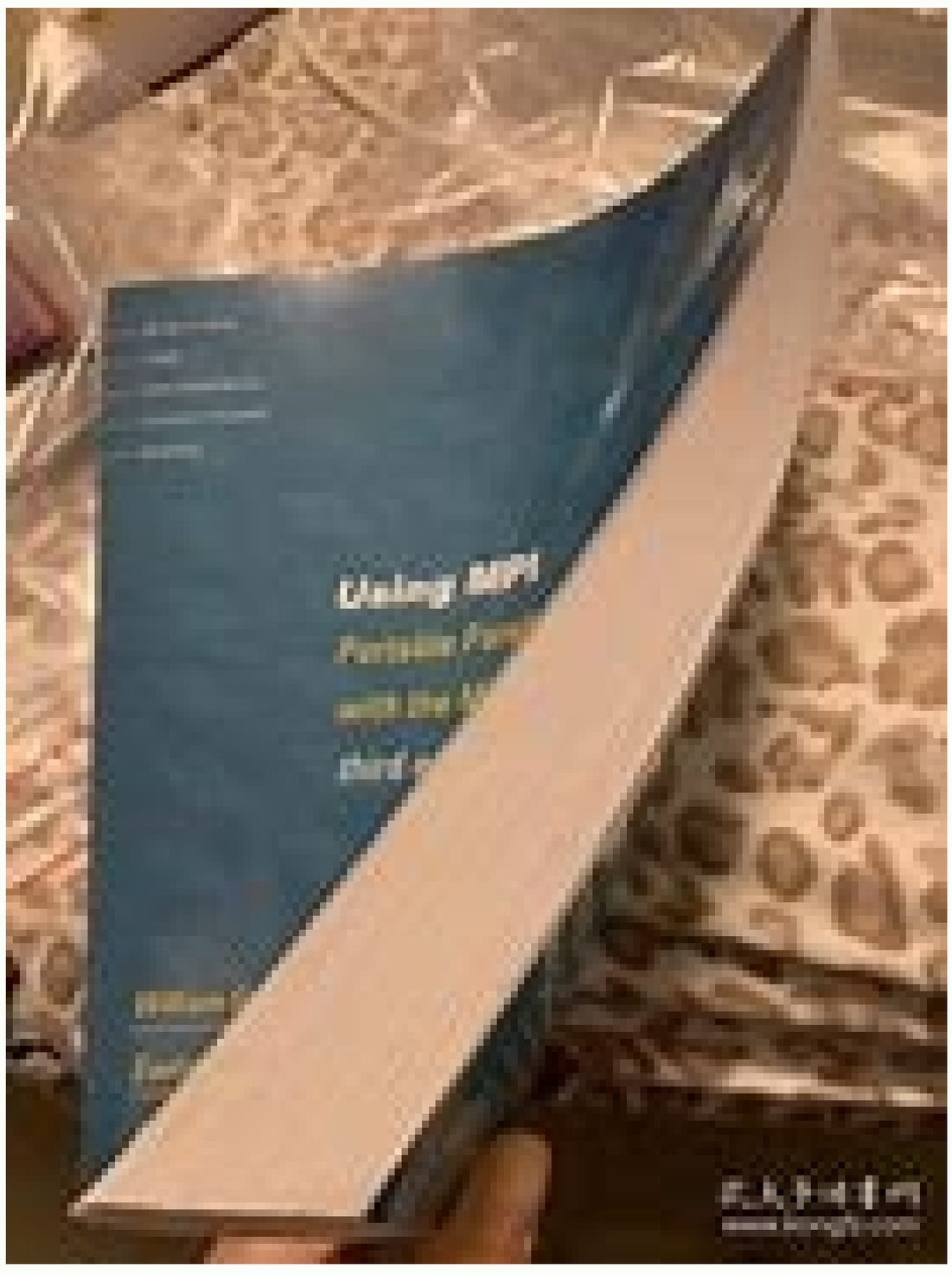

Basic Outline

```
. . .
#include <mpi.h>
. . .
int main(int argc, char* argv[]) {
   . . .
   /* No MPI calls before this */
   MPI_Init(&argc, &argv);
   . . .
   MPI_Finalize();
   /* No MPI calls after this */
   . . .
   return 0;
}
```

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Takes a tutorial approach, starting with small programming examples and building progressively to more challenging examples Focuses on designing, debugging and evaluating the performance of distributed and shared-memory programs Explains how to develop parallel programs using MPI, Pthreads, and OpenMP programming models Författare: Peter Pacheco Format: Pocket/Paperback ISBN: 9780128103821 Språk: Engelska Antal sidor: 392 Utgivningsdatum: 2018-10-30 Förlag: Morgan Kaufmann On-line books Can You Chip In?The Internet Archive is growing faster than ever before, and we need your help. As an independent nonprofit, we build and maintain all our own systems, but we don’t charge for access, sell user information, or run ads—instead we're powered by donations averaging $30. Unfortunately, fewer than 1 in 1000 of our patrons donate.We don't ask often, but right now, we have a 2-to-1 Matching Gift Campaign, tripling the impact of every donation. 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User-friendly exercises teach students how to compile, run and modify example programs.}, added-at = {2016-02-09T12:34:47.000+0100}, author = {Pacheco, Peter}, biburl = { , interhash = {6eabc2a61afcf26e9afa398b3748ec19}, intrahash = {a65d99e800419cc66da430c30751eaeb}, isbn = {9780123742605 0123742609}, keywords = {parallel programming textbook}, publisher = {Morgan Kaufmann}, refid = {668986119}, timestamp = {2016-02-09T12:34:47.000+0100}, title = {An Introduction to Parallel Programming}, year = 2011 } %0 Book %1 pachenko11 %A Pacheco, Peter %D 2011 %I Morgan Kaufmann %K parallel programming textbook %T An Introduction to Parallel Programming %X Author Peter Pacheco uses a tutorial approach to show students how to develop effective parallel programs with MPI, Pthreads, and OpenMP. The first undergraduate text to directly address compiling and running parallel programs on the new multi-core and cluster architecture, An Introduction to Parallel Programming explains how to design, debug, and evaluate the performance of distributed and shared-memory programs. User-friendly exercises teach students how to compile, run and modify example programs. %@ 9780123742605 0123742609 Parallel programming course at Peking University Yes We Code Contents Nine times of homeworks, both my homeworks and my partner Shiyao Li's homeworks. These homeworks including Pthreads, MPI and CUDA Parallel Programming Interface, and Fortran/C Programming Language. Yao Hong's homeworks. Yao Hong Reference Codes and Training Materials are come from Lawrence Livermore National Laboratory, which written by Blaise Barney. Thanks a lot for the open resource. My first and second CUDA Programs. Example codes of my Lectures on HPC to Prof. Shan Tang's group. We Gratefully Acknowledge Associate Prof. Hua-shan Yu from School of Electronics Engineering and Computer Science at Peking University for his help both in course and final project. Reference Material's Programs Peter Pacheco's Book (An introduction to Parallel Programming)'s Materials. Codes of each chapter. Other materials will be updated in the future. Ristov S, Prodan R, Gusev M, et al. Superlinear speedup in HPC systems: Why and when?[C]. federated conference on computer science and information systems, 2016: 889-898. Warranty Maybe, there are many mistakes in the both documents and Codes, because of the limitation of our knowledge and strength. As a result: THESE DOCUMENTS AND CODES ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. I MAKE NO WARRANTIES, EXPRESS OR IMPLIED, THAT THEY ARE FREE OF ERROR. 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