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论文

在PVM应用程序中调用ScaLAPACK库函数方法

张云泉,迟学斌

中国科学院软件所并行软件研究开发中心;中国科学院软件所并行软件研究开发中心

摘要:

关键词:

METHOD OF CALLING SCALAPACK IN PVM APPLICATIONS

Zhang Yun-quan; Chi Xue-bin(R & D Center for Parallel Software, Institute of Software, Chinese Academy of Sciences)

Abstract:

As the parallel version of LAPACK, ScaLAPACK will provide convenient and powerful parallel programming platform for parallel computing society. In this paper, we propose a PVM based ScaLAPACK application programming structure. Based on this general programming structure, we give three initialization methods of BLACS that can be used under different situations. The data distribution fashion used in ScaLAPACK is also introduced to help the user to understand them better. For those who are familiar with PVM parallel programming, they can call ScaLAPACK subroutines directly using our methods, without concerning ScaLAPACK details too much. Finally, several shortcomings of current version ScaLAPACK package are discussed and an API is proposed to improve its usability.

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