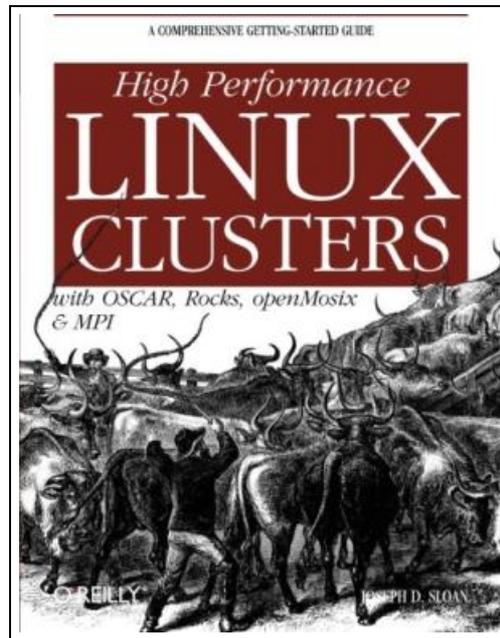# High Performance Linux Clusters with OSCAR, Rocks, OpenMosix and MPI

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HIGH PERFORMANCE LINUX CLUSTERS WITH OSCAR, ROCKS, OPENMOSIX AND MPI

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O'Reilly Media, Inc, USA. Paperback. Book Condition: new. BRAND NEW, High Performance Linux Clusters with OSCAR, Rocks, OpenMosix and MPI, Joseph D. Sloan, To the outside world, a "supercomputer" appears to be a single system. In fact, it's a cluster of computers that share a local area network and have the ability to work together on a single problem as a team. Many businesses used to consider supercomputing beyond the reach of their budgets, but new Linux applications have made high-performance clusters more affordable than ever. These days, the promise of low-cost supercomputing is one of the main reasons many businesses choose Linux over other operating systems. This new guide covers everything a newcomer to clustering will need to plan, build, and deploy a high-performance Linux cluster. The book focuses on clustering for high-performance computation, although much of its information also applies to clustering for high-availability (failover and disaster recovery). The book discusses the key tools you'll need to get started, including good practices to use while exploring the tools and growing a system. You'll learn about planning, hardware choices, bulk installation of Linux on multiple systems, and other basic considerations. Then, you'll learn about software options that can save you hours--or even weeks--of deployment time. Since a wide variety of options exist in each area of clustering software, the author discusses the pros and cons of the major free software projects and chooses those that are most likely to be helpful to new cluster administrators and programmers. A few of the projects introduced in the book include: * MPI, the most popular programming library for clusters. This book offers simple but realistic introductory examples along with some pointers for advanced use. * OSCAR and Rocks, two comprehensive installation and administrative systems * openMosix (a convenient tool for distributing jobs),...

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