

SCore: An Integrated Cluster System Software Package for High Performance Cluster Computing

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Abstract

SCore Cluster System is an integrated software package for high performance clusters, and is used by worldwide users. SCore and the PMv2 high performance communication library, which supports various networks available today, was designed simultaneously. As a result, SCore can provide not only high performance cluster computing environment, but also a number of cluster programming facilities including Ethernet trunking, network interleaving, gang-scheduling, checkpoint and restart, real-time monitoring of user programs, deadlock detection, debugging support, etc.

SCore Cluster System Software is developed by the Real World Computing (RWC) Project funded by Japanese government. The RWC project will be terminated by the end of March, 2002, however, PC Cluster Consortium (<http://www.pcluster.org>) is formed and the development of SCore Cluster System Software is continued by the consortium.

In this talk, after the brief introduction of SCore Cluster System Software, target and the current status of the PC Cluster Consortium will be presented.

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