Abstract

Today processors and memory speeds slowly approach their physical limits and there is a need for parallel computing models. Recent developments in DSM, Grids and DSM based Grids focus on high end computations of parallelized applications. As a part of the doctoral work we have built a model which combines DSM and Grid computing paradigms into SMIG (Shared Memory Integrated with Grid). It was observed that just building an amalgamated model was not enough but there was a strong need to identify the potential category of users and prepare a communication framework to disseminate this information to them. Hence in this paper we have surveyed and compared various communication techniques for disseminating DSM, Grid
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and DSM based Grid models. We have also designed and implemented a communication framework to percolate SMIG information to users. In the framework we have used various other methods (apart from those found in the survey) for promoting usage of technology in the communication framework like arranging overview sessions, handing written documentation on a one to one basis to users and also providing an opportunity to use the model. The detailed responses received from users after implementing the communication framework are also discussed. As a part of further research this communication framework can be used for disseminating other technical developments to potential users.

References

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