Parallel functional programming on cluster *

Viktória Zsók, Zoltán Horváth, Máté Tejfel
Department of General Computer Science
University of Eötvös Loránd, Budapest
e-mail: {zsv,hz,matej}@inf.elte.hu

Functional programming is very suitable for expressing parallelism. Nowadays is very widespread the use of PC clusters for testing and developing parallel applications. Building such clusters allows for a larger usergroup to experiment the parallel issues of different problems.

Functional programming is very suitable for expressing parallelism. We would like to test and to verify how the functional programming fits into the parallel programming framework offered by a cluster. A special field of the functional programming will be studied, the theme of skeletons, which suits very well to the parallel functional programming.

It is important to see the behaviour of the skeletons on the GRID of the 20 PC computers, because this test helps in enforcing the parallelism in the functional programming style. Less work was done yet for adapting the functional programming to the possibilities offered by clusters, thus this topic provides many opportunities for studing parallelism.

References

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