NAUTA: A Network Administration Utility for Transputer Architectures

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Abstract

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MIMD reconfigurable architectures including transputer arrays, are becoming very popular because of their natural approach to parallelism and the fact that they grant large flexibility. However, they leave a crucial task to the programmer: he must divide the body of the whole program in many parallel modules, and define the network's topology in order to best adapt it to the communication needs arising when the various modules must communicate with each other. The computation and communication loads should be well distributed over the network available resources, in order to ensure good performances. Maybe this goal cannot be accomplished at the very first attempt, thus it would be useful to measure the traffic along the various links of the network in search for 'bottlenecks' which cause delays. This would suggest which changes to the distribution of computation duties and to the routing of messages which would lead to an improvement of the global traffic's fluency.

NAUTA was developed to cope with the problems of administrating the topology of the network and analyzing its subsequent influences upon the general behaviour, when running an application on a transputer architecture. It offers the user a graphical interface to set up the network configuration and to load the processes constituting the application onto the processors.

Finally, NAUTA gives an overview upon the runtime behaviour of the processors and the traffic between them, in order to highlight possible bottlenecks. This overview is presented in the form of a set of runtime-evolving 'Strip charts', providing a good degree of comprehension to a user's glance.

The present version of NAUTA was designed to operate inside the environment of a transputer computing system with CSTools, the application development toolset for multiprocessor systems distributed by Meiko Ltd. However, since NAUTA is essentially an interface between the application programmer and the computing environment, not many details of the latter need to be known, perhaps apart from some small constraints on the realization of the topology which could be removed when handling a different system to Meiko's. The NAUTA approach is quite general and portable to other kinds of MIMD machines. The graphical world where NAUTA was conceived is that of XWindows, and in particular massive use was made of the XtIntrinsics [1] and the Athena Widgets [2]: in this way the development of NAUTA's interface proceeds with the aid of the great modularity supported by the Widgets and it is very easy and intuitive for a user to learn how to use it [3].

Keywords. Parallel programming tools; transputer; MIMD architectures.

1. Configuring a MIMD architecture

The great versatility of MIMD machines is due to the way they approach parallelism: given a task to solve, it is often easy to split it into simpler pieces, elementary tasks that can be evaluated in parallel. Therefore, when the problem is such that it can be split in an easy way, it is immediate to think of assigning each smaller task to a different processor, and provide some means of communication between them, to ensure data-passing. This is of course only a simplification of the real scenario offered by a MIMD system at work

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