XPVM – An X window based interface to the PVM monitor

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1 Introduction

PVM, the Parallel Virtual Machine, provides the opportunity to access a heterogeneous computer network for solving a particular problem. We observed that machines at institutes are sometimes not easy to access because the user simply does not know the names or the IP address of the machines in the cluster. A look in /etc/hosts might be helpful but does often not show on which machine pvm should not be executed.

In order to assist the generating of hostfiles, the organization of the pvm daemons and the execution of the pvm application we decided to write a simple but powerful interface customized for our machine configuration. We have been careful with the design in order to make the program portable so that other PVM users at other institutes might profit from the tool.

2 The Graphical User Interface

![PVM Interface Diagram]

Figure 1: The climate model overview
Figure 2: The climate model overview