

Laboration 5 - TDDC78

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1 TotalView

The debugger TotalView was pretty complicated to get started with, it required some special setup and such, but when it did start to work then we got a nice looking window with our code. It was pretty intuitive how to use it with clear buttons for single stepping and running the code. We have previously worked with the built in debugger in eclipse and found the interface a bit more crude in TotalView, but it had similar functionality. GDB is a debugger for C that is terminal based so TotalView is better since it has a graphical interface. We didn't get TotalView to work correctly when we had problems with the laborations but we imagine that it would have been a really helpful tool to have when searching for bugs so if we would start over with the lab series we would have spent some time on using TotalView from the beginning, just to see how the program interacts on the different nodes.

2 Tracing with ITAC

We compiled the program using ITAC, ran it with mpirun on four nodes, and analyzed the result with the Intel Trace Analyzer program.

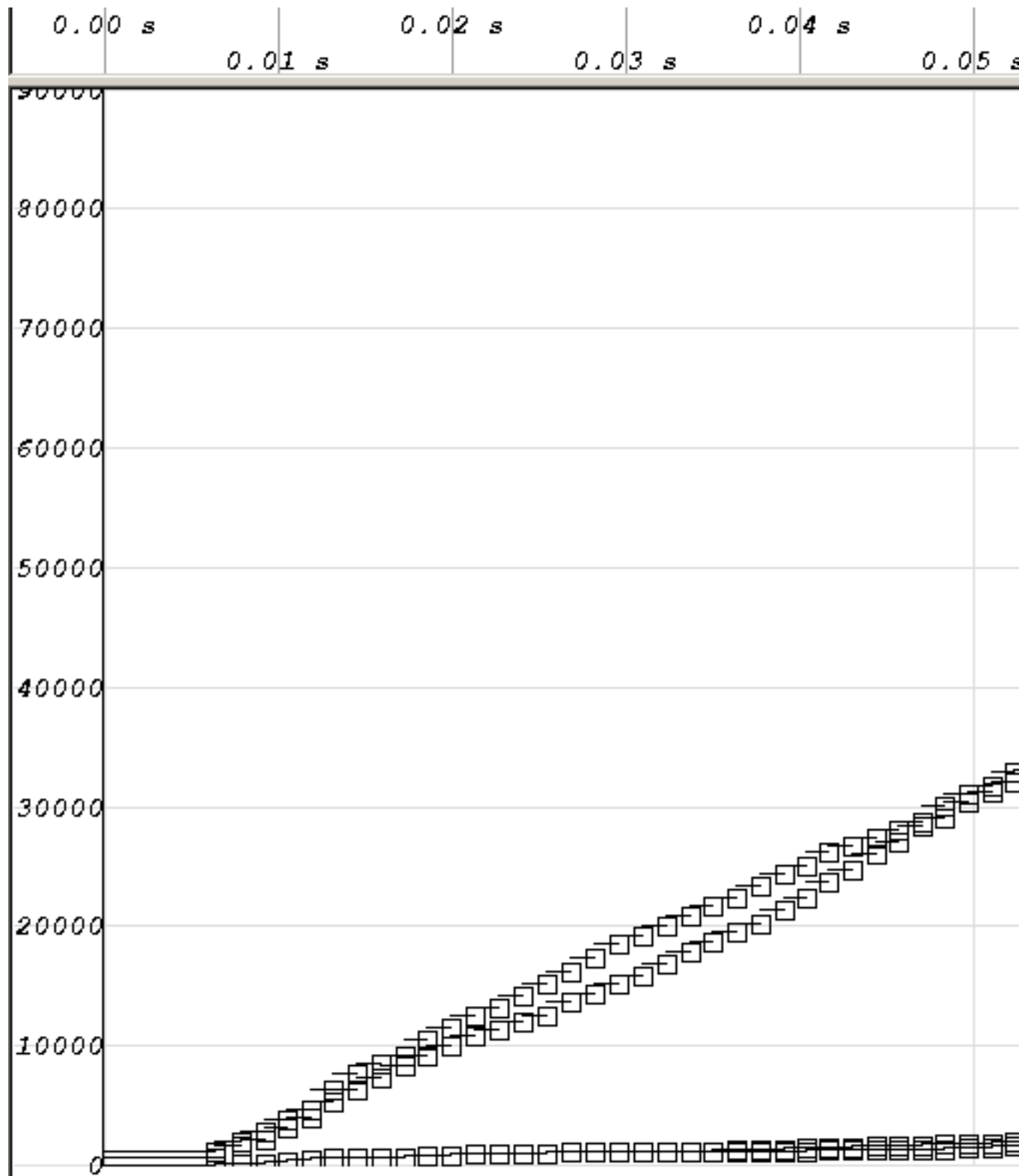


Figure 1: Count graph of the total momentum for each node