TDDC78 Lab 5

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Chapter 1

Tools

1.1 Totalview

We were not able to make Totalview work properly. It did not show us our own source code, only showed us the mpiexec.hydra memory calls.

1.2 ITAC

We used the MPI code from lab 1 to test ITAC. Both the image blur and image thresholding programs were tested. Figure 1.1 and 1.2 shows the result from running in ITAC. It can be seen in Figure 1.2 that most of the time is spent on MPI communication (red bars), rather than actual program computations (blue bars). In the case of blurring, more time is spend doing actual computations relative to the total execution time.

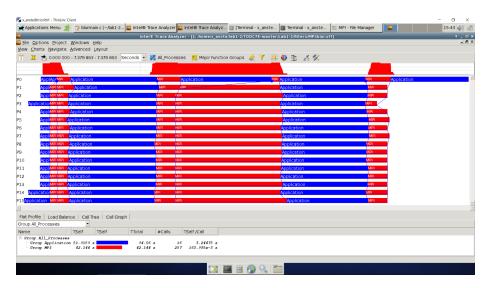


Figure 1.1: MPI blur ITAC run.

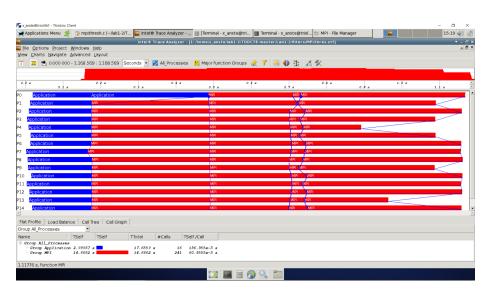


Figure 1.2: MPI threshold ITAC run.