

# Intel Trace Analyzer and Collector

Intel Trace Analyzer and Collector (ITAC) is a tool to collect and graphically analyze behaviour of MPI applications. It helps you to analyze communication patterns of your application, identify hotspots, perform correctness checking (identify deadlocks, data corruption etc), simulate how your application would run on a different interconnect.

ITAC is an offline analysis tool - first you run your application to collect a trace file, then you can open the trace in a GUI analyzer to view it.

## Installed version

Currently on Salomon is version 9.1.2.024 available as module `itac/9.1.2.024`

## Collecting traces

ITAC can collect traces from applications that are using Intel MPI. To generate a trace, simply add `-trace` option to your `mpirun` command :

```
$ module load itac/9.1.2.024
$ mpirun -trace myapp
```

The trace will be saved in file `myapp.stf` in the current directory.

## Viewing traces

To view and analyze the trace, open ITAC GUI in a graphical environment :

```
$ module load itac/9.1.2.024
$ traceanalyzer
```

The GUI will launch and you can open the produced `*.stf` file.

Please refer to Intel documentation about usage of the GUI tool.

## References

1. Getting Started with Intel® Trace Analyzer and Collector
2. Intel® Trace Analyzer and Collector - Documentation

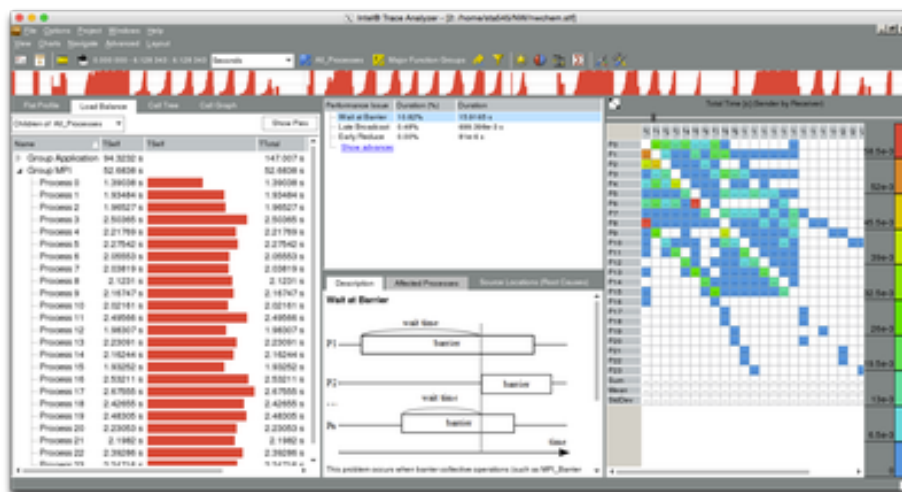


Figure 1: