

Intel® Trace Analyzer and Collector for Windows* OS

Getting Started Guide

Overview

To simplify the use of the Intel® Trace Analyzer and Collector, a set of environmental scripts is provided to you. Source/execute the appropriate script (`<installdir>\bin\itacvars.bat`, `<installdir>/bin/itacvars.csh`, `<installdir>/bin/itacvars.sh`) in your shell before using the software.

```
$ <installdir>\bin\itacvars.bat
```

The typical use of the Intel Trace Analyzer and Collector is as follows:

- Let your application run together with the Intel Trace Collector to generate one (or more) trace file(s).
- Start the Intel Trace Analyzer and to load the generated trace for analysis.

Generating a Trace File

Generating a trace file from an MPI application can be as simple as running application with `pin`. Assume you start your application with the following command:

```
> mpiexec -n 4 myApp
```

Then generating a trace can be accomplished by adding:

```
> mpiexec -n 4 itcpin --run -- myApp
```

This will create trace files named `myApp.stf*` containing trace information for all MPI call issued by the application.

If your application is statically linked against the Intel® MPI Library you have to re-link your binary like this:

```
> mpiicc -trace <all our object files> -o myApp #  
when using the Intel® C++ Compiler
```

or

```
> mpiifort -trace <all our object files> -o myApp #  
when using the Intel® Fortran Compiler
```

Normal execution of your application:

```
> mpiexec -n 4 myApp
```

will then create the trace files named `myApp.stf*`.

Analyzing a Trace File

To analyze the generated trace, invoke the graphical user interface:

```
> traceanalyzer myApp.stf
```

Read section For the Impatient in the [Trace Analyzer Reference Guide](#) get guidance on the first steps with this tool.

Further options

This document gives only a short introduction to the Trace Analyzer and Collector. For more features and details see the product documentation: Refer to the [Intel Trace Collector Reference Guide](#) to learn more about the Trace Collector's features like its API for source code instrumentation, compiler-guided instrumentation, instrumentation of binary executables, runtime configuration and a lot more .

Refer to Intel Trace Analyzer Reference Guide to learn more about the Trace Analyzers capabilities to display, aggregate, filter, tag and compare trace data.

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