## Build and install Score-P

Download and unpack Score-P. Configure it with the --with-lib option telling Score-P where the GASPI and IBVERBS libraries are installed:

```
$ ./configure --with-libGPI2=/home/procs/GPI2-rc2
--with-libibverbs15=/home/procs/LibIBverb15
```

If the configuration was successful, it prints a summary to the console like this:

```
Score-P (GASPI backend):

C99 compiler used: gcc -std=c99
libibverbs15 support: yes, using ...
libGASPI support: yes, using ...
GASPI support: yes
```

Now you can build and install Score-P:

```
$ make
2 $ make install
```

## Setup Score-P for instrumenting

Score-P is controlled by several environment variables. Please refer to the manual of your batch system to ensure, that the environment variables are seen on each node. Two environment variables are necessary:

```
$ export SCOREP_ENABLE_TRACING=true
$ export SCOREP_EXPERIMENT_DIRECTORY=/path/to/experiment
```

SCOREP\_ENABLE\_TRACING activates the tracing. SCOREP\_EXPERIMENT\_DIRECTORY defines the experiment directory, where the traces of your application will be stored. There are more variables to configure Score-P, please take look at the manual. For instance you can add performance counters with

```
$ export SCOREP_METRIC_PAPI=PAPI_FP_OPS,PAPI_L2_TCM
```

## Instrument, compile and execute your application

Now you can compile and instrument your Gaspi application.

```
./path/to/scorep/bin/scorep --gaspi gcc ./helloworld.c
-o ./helloworld_scorep
```

Score-P will build an instrumented version of your GASPI application, which you can then run like the native version using gaspi\_run:

```
gaspi_run -m ./machinefile -n 4 ./helloworld_scorep
```

After the application run has finished you can find the traces in the specified experiment directory. You can use these traces to e.g. visualize the application run using Vampir.

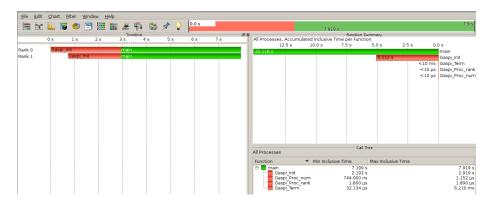


Figure 1: Vampir performance visualization