



Breeze Trace Only Change log

v2.11.0

1 Breeze 2.11.0

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|--|
| | 1321, 2619, 2904 | Added support for PBS Professional. |
| | 2701 | Tracing on ARM v7 and ARM v8 systems including MPI functionality is now fully supported. |
| TT436 | 2777 | Improved compatibility with LSF python API. |

2 Breeze 2.10.3

| Customer Ticket | Development Reference | Description |
|-----------------|------------------------|--|
| | 1322, 2446, 2477, 2698 | Added support for the Slurm workload manager. |
| | 2725 | Fixed a bug that could cause a hang during tracing under certain conditions in process initialisation. |

3 Breeze 2.10.2

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|--|
| | 2383 | Add initial support for tracing on ARM v7 and ARM v8 systems. MPI functionality is currently not available on these platforms. |
| TT436 | 2602 | Fixed a bug where a multi-threaded program being traced may not exit cleanly. |

4 Breeze 2.10.1

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|--|
| | 2511 | Fixed a bug where attempting to change the file access mode on an already open stream could fail under certain conditions. |
| | 2546 | Fixed a bug that prevented running MPI jobs in a sourced environment set-up. |
| | 2547 | Compatibility fix for programs that explicitly define a small stack size. |
| | 2549 | Added official support for OpenMPI 2.1.0 |

5 Breeze 2.10.0

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|--|
| TT671 | 658 | Output can now be redirected to a log file via new <code>-l/--log</code> option. |
| | 659 | Support shell constructs to be directly run under trace. |
| | 662 | Added a new <code>--remote-job</code> option to prevent a trace from exiting until all child jobs are completed. |
| | 1248, 1944, 1945 | Improved signal handling. |
| | 1804 | Pipes and sockets are now excluded from filesystem trawl measurements. |
| TT436 | 2032 | The exit code of the program under trace is now properly propagated. |
| DT-69791 | 2107 | Added support for job submissions via LSF C API. |
| | 2127 | Added new <code>-c/--post-trace</code> option allowing user to execute a command once the trace is finished. |
| | 2170 | Enabled tracing of MPI I/O for the following implementations: MPICH, MVAPICH, OpenMPI |
| | 2187 | The '#' character is now properly escaped in remote trace commands. |
| TT431 | 2259 | Improved error checking related to non-seekable streams. |
| | 2286 | Added support for LSF job submission via <code>lsgrun</code> , <code>lsrun</code> and <code>blaunch</code> . |
| TT696 | 2388, 2413 | Improved compatibility with other LD_PRELOAD libraries. |
| TT704 | 2419 | Fixed an issue where the wrong errno value could be reported to an application while under trace. |

6 Breeze 2.9.5

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|--|
| TT633 | 2266 | Fixed an issue where a program registering a signal handler in a non-standard way would cause a crash. |

7 Breeze 2.9.4

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|--|
| TT564, TT584 | 2231 | Fixed an issue where an internal error check could generate a false positive during signal handling. |

8 Breeze 2.9.3

| Customer Ticket | Development Reference | Description |
|-----------------|---|--|
| | 891, 1227, 1228, 1892, 1910, 2038, 2039, 2040, 2048 | Various tracing performance improvements. |
| | 1222 | Added support for following <code>rsh</code> commands to new execution hosts. |
| | 1559 | Compatibility fix for programs that use libraries which override standard <code>glibc</code> functions. |
| TT434 | 2077 | Added support for <code>jemalloc</code> and other similar <code>malloc</code> replacement <code>LD_PRELOAD</code> libraries. |

9 Breeze 2.9.2

UI functionality release, no changes made to the Breeze trace-only component.

10 Breeze 2.9.1

Internal development release.

11 Breeze 2.9.0

| Customer Ticket | Development Reference | Description |
|-----------------|-----------------------|---|
| | 1524 | Tracing and profiling is now supported for "seek" calls (<code>fseek</code> , <code>lseek</code> , etc.). |
| | 1525 | Introduced a new value "all-io" for tracing option "--trace" which collects statistics on all reads, writes, and seeks. This option is not intended for use with large traces. |
| 59 | 1534 | Glob calls with <code>GLOB_NOMAGIC</code> or <code>GLOB_NOCHECK</code> flags set that do not find matching files are considered failing. |