

# LLVM Clang 9.0 Adds "-ftime-trace" To Produce Useful Time Trace Profiling Data

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LLVM has merged a very useful feature for the Clang 9.0 release this autumn: the `-ftime-trace` feature allows producing time trace profiling data in a friendly format that is useful for developers to better understand where the compiler is spending most of its time and other areas for improvement.

Clang has already supported `-ftime-report` for printing time summaries for each stage of the compilation process while `-ftime-trace` yields much more useful data. The output of `-ftime-trace` is JSON-based profiling outputs that can be loaded into Chrome's `chrome://tracing` visualizer. This data shows how much time LLVM/Clang is spending on compiling each file, down to the function granularity.

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**Source URL:** <http://www.tuxmachines.org/node/122346>

**Links:**

[1] <http://www.tuxmachines.org/taxonomy/term/145>

[2] <http://www.tuxmachines.org/taxonomy/term/115>

[3] [https://www.phoronix.com/scan.php?page=news\\_item&px=LLVM-Clang-9.0-Time-Trace](https://www.phoronix.com/scan.php?page=news_item&px=LLVM-Clang-9.0-Time-Trace)