

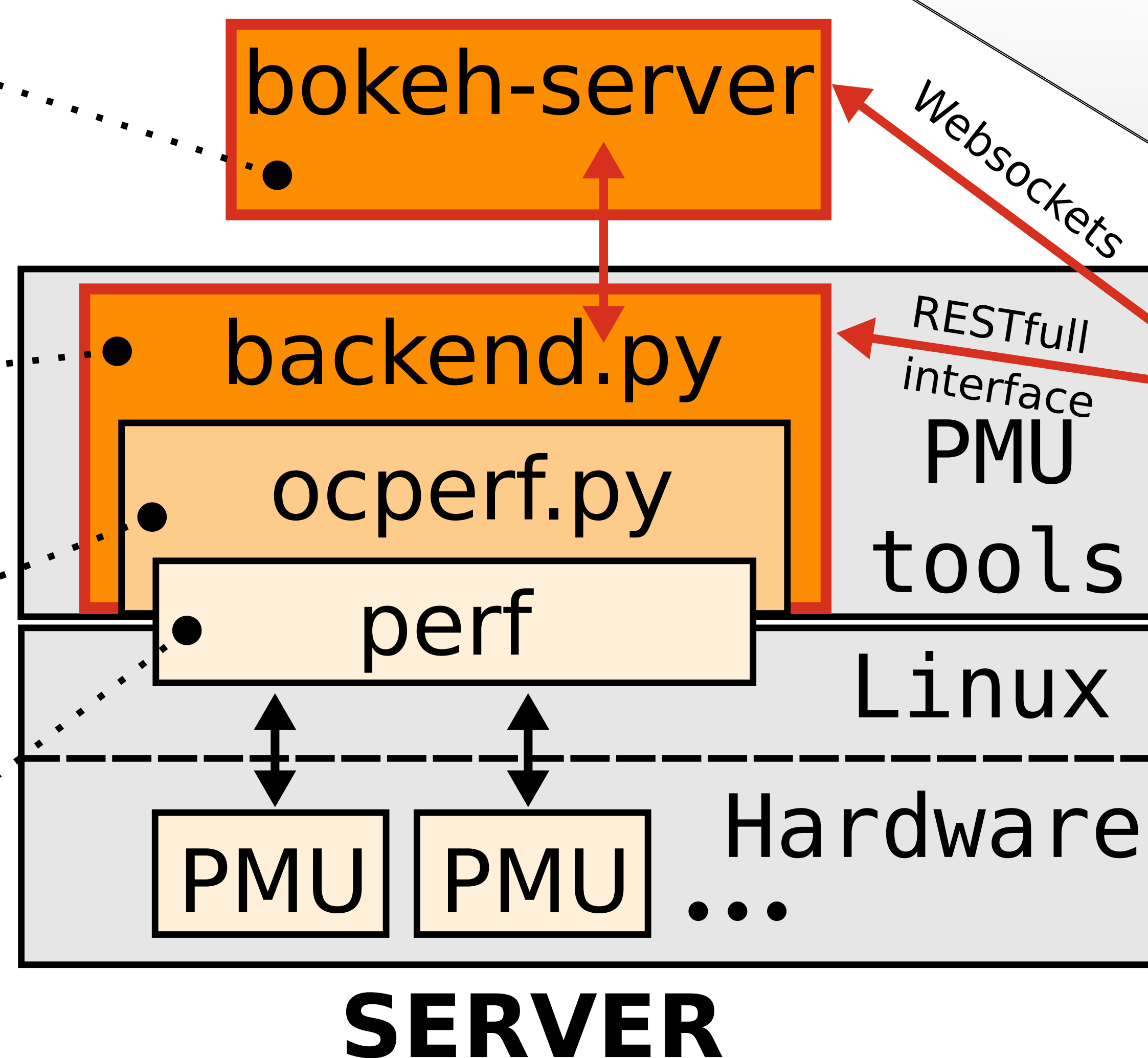
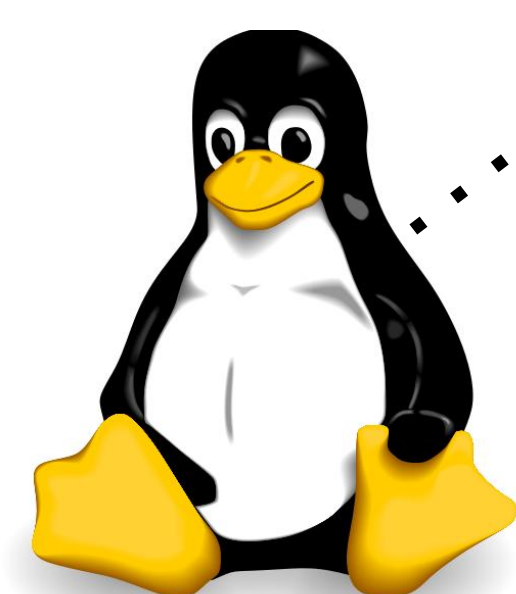
A graphical performance analysis and exploration tool for Linux perf

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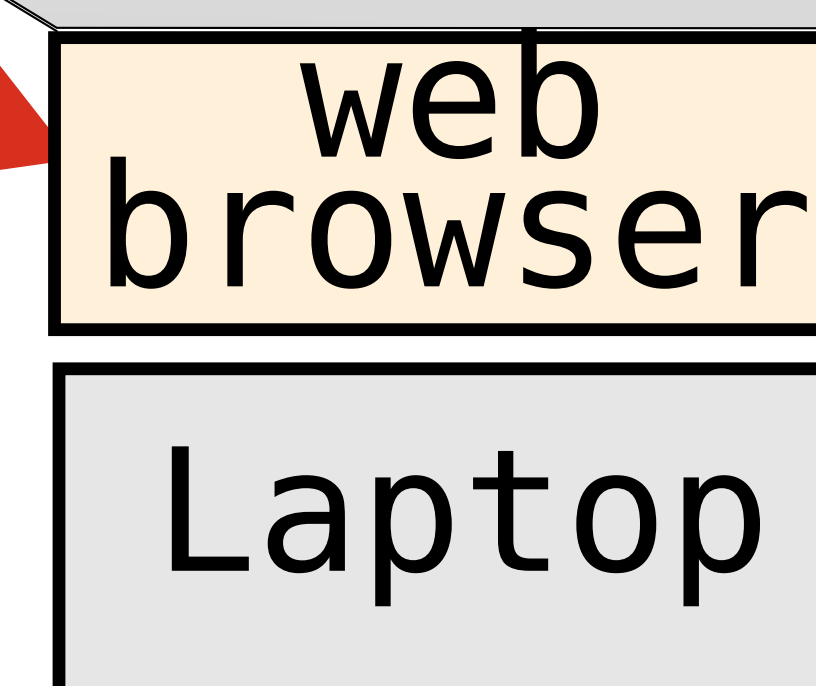
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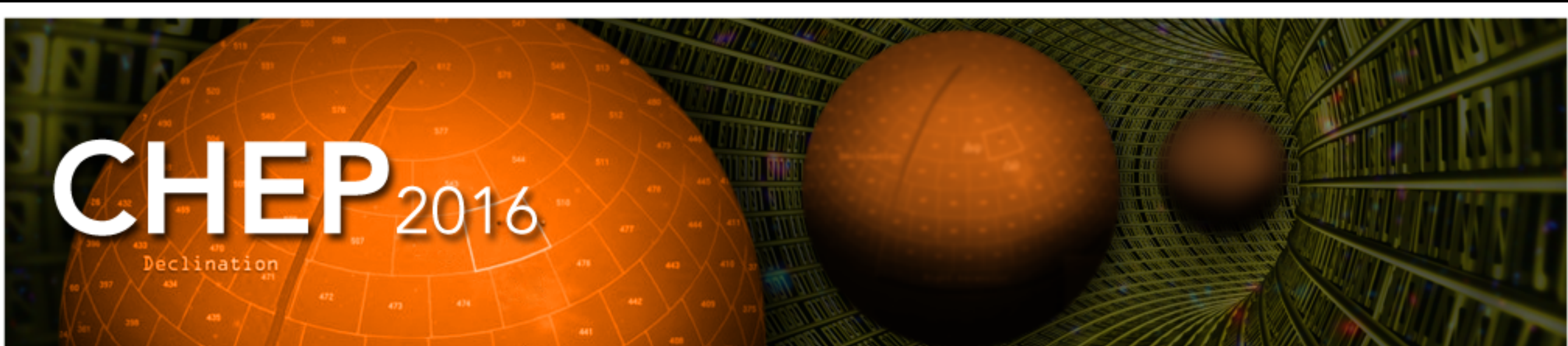
- The Performance Monitoring Units (PMUs) implemented in modern computing architectures provide an opportunity to conduct **non-intrusive** performance measurements.
- On a Linux system, the PMU units can be controlled by the **perf** tools. The pmu-tools toolkit is built around Linux perf tools which further enhances the usability of the Linux perf tools.
- However, the current solutions lack **visualization** capabilities. The text-based interface for control and output diminishes the usability of the tools and the interpretability of the results.
- Our project aims to provide a reliable and easy to use **web-based graphical user interface** on top of Linux perf.
- We employ modern web technologies such as the Bokeh plotting engine in order to graphically display **the performance results** at the end of a benchmark or in real-time while the workload is running.
- The web-interface we have developed allows **remote access** to the machine where the benchmarks are executed. Additionally it helps with the management of the results of the benchmarks by grouping them into **sessions**. With one click the results can be reloaded in the main page as well as archived or deleted.
- **Next steps** include adding more advanced visualizations, improving backend robustness and enabling realtime feedback from the workload execution.



Network



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https://github.com/ohm314/pmu-tools/tree/wip_sessions/web_ocperf



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