



Standard Performance Evaluation Corporation (SPEC)

Chauffeur™ Worklet Development Kit (WDK) Run and Reporting Rules 2.0.0

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1. Introduction

1.1. Summary

When SPEC developed SPECpower_ssj2008, the first industry-standard benchmark for measuring energy efficiency of servers, they also created the SPEC Power and Performance Benchmark Methodology to describe best practices for future benchmarks and tools developed to measure power and performance of computer systems. As SPEC set out to create the Server Efficiency Rating Tool (SERT), they recognized that many of these best practices were independent of the actual workload being measured.

The Chauffeur framework was designed to simplify the development of workloads for measuring both performance and energy efficiency. Chauffeur contains functionality that is common to most workloads, enabling developers to focus on the actual business logic of the application, and take advantage of Chauffeur's capabilities for configuration, execution, data collection, validation, and reporting.

Chauffeur was initially designed to meet the requirements of the SERT. SPEC recognized that the framework would also be useful for research and development purposes and is now being made available as the Chauffeur Worklet Development Kit (WDK). This kit can be used to develop new workloads, or “worklets” in Chauffeur terminology. Researchers can also use the WDK to configure worklets to run in different ways in order to mimic the behavior of different types of applications. These features can be used in the development and assessment of new technologies such as power management capabilities.

These rules abide by the norms laid down by SPEC in order to ensure that results generated with this tool are meaningful and repeatable. These reports document factors necessary to reproduce the results. Per the SPEC license agreement, all results must adhere to these Run and Reporting Rules. To check for possible updates to the Run and Reporting Rules, please see http://www.spec.org/chauffeur-wdk/docs/Chauffeur-WDK-Run_and_Reporting_rules.pdf.

1.2. Caveats

SPEC reserves the right to investigate any case where it appears that these guidelines and the associated Run and Reporting Rules have not been followed. SPEC may request that the claim be withdrawn from any public forum in which it appears and that the tester correct any deficiency in the product or process before publishing future results.

1.3. Research and Academic Usage

SPEC encourages the use of the Chauffeur WDK by the Research and Academic Community; please consult the SPEC Fair Use Rule for Research and Academic Usage at <http://www.spec.org/fairuse.html#Academic>.

1.4. SPEC PTDaemon Usage

The Chauffeur WDK includes code for the SPEC Power and Temperature Daemon (SPEC PTDaemon). The SPEC PTDaemon is licensed for use only with the Chauffeur WDK. It is NOT licensed for use as a standalone tool or for integration into a tool that is unrelated to the Chauffeur WDK.

1.5. Sharing Chauffeur WDK modifications

A licensee may share Chauffeur WDK modifications with other Chauffeur WDK licensees only. SPEC encourages the modifications be shared with SPEC for possible inclusion in a future release of the Chauffeur WDK.

1.6. Sharing User Created Worklets

A licensee may share user created worklets with no input from or requirements imposed by SPEC. It is encouraged that the worklets be shared with SPEC for possible inclusion in a future SPEC product.

1.7. Trademark and Copyright Notice

SPEC, the SPEC logo, and the name SPECpower_ssj are registered trademarks of the Standard Performance Evaluation Corporation (SPEC). Chauffeur WDK, SPEC PTDaemon, and SERT are trademarks of SPEC. Additional product and service names mentioned herein may be the trademarks of their respective owners. Copyright © 1988-2017 Standard Performance Evaluation Corporation (SPEC). All rights reserved.

2. Run Rules

The Chauffeur WDK is intended for new worklet development, and SPEC does not prescribe any run rules or restrictions on the use of the Chauffeur WDK.

3. Reporting Rules

SPEC does not accept or endorse any results produced with the Chauffeur WDK.

The system configuration information that is required to reproduce published power and performance results must be reported accurately. The principle is that if anything affects power or performance or is required to duplicate the results, it must be described. Any deviations from the standard, default configuration for the SUT must be documented so an independent party would be able to reproduce the result without any further assistance.

4. Publication

Any entity choosing to make statements using the Chauffeur WDK must follow the SPEC Fair Use Rule.

4.1. Fair Use

Consistency and fairness are guiding principles for SPEC. To help assure that these principles are met, any organization or individual who makes public use of SPEC tool results must do so in accordance with the SPEC Fair Use Rule, posted at <http://www.spec.org/fairuse.html>.