Chauffeur WDK

Worklet Development Kit

Developed by the SPECpower Committee
http://www.spec.org/chauffeur-wdk

spec®

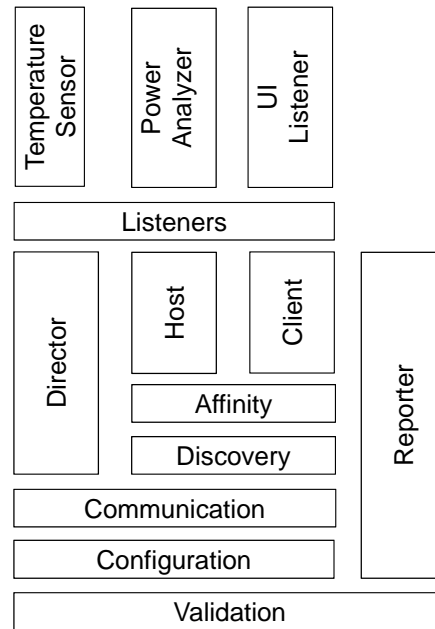### The Chauffeur Worklet Development Kit (WDK)

A new framework for creating worklets to measure the performance and energy efficiency of servers at variable utilizations levels.

Key Benefits:

- Creating new workloads
- Extensible data collection
- Custom reports
- Modifying runtime behavior
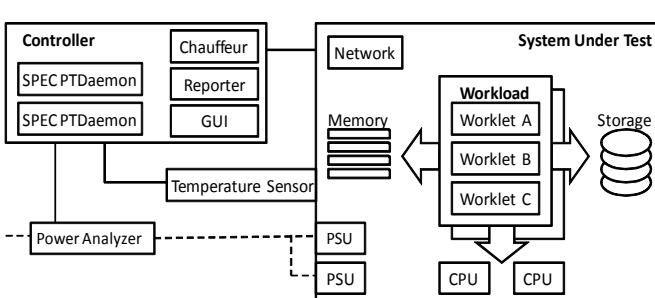
Chauffeur Design:

- Multiple Hosts and Multiple Threads
- Energy Measurements
- Multiple Workload Support
- Easy to Run
- Flexible Configuration and Data Collection
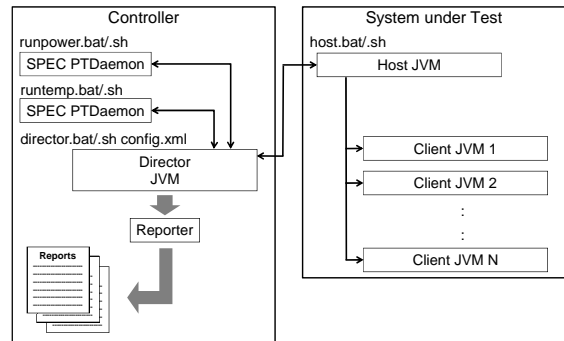- Self-validation
- Customizable Reporting
- Portability

Chauffeur Design Overview

Definitions:

- Scenario
  - A sequence of transactions. Chauffeur includes RandomBatchScenario and SequentialBatchScenario.
- Weight
  - The relative weight of a scenario or transaction. Higher numbers will cause this scenario/transaction to be executed more frequently.
- Batch Size
  - The number of transactions executed during each scenario.
- Macro Batch Size
  - The number of transactions scheduled in one group (with no delay in between).

HW / SW Overview

Chauffeur Operation