The SPEC Research Group

Mission Statement
• Provide a platform for collaborative research efforts in the area of quantitative system evaluation and analysis
• Foster interactions and collaborations between industry and academia
• Scope: computer benchmarking, performance evaluation, and experimental system analysis in general

Scope of Research Efforts
• Develop metrics, benchmarks, methodologies, techniques and tools for quantitative system evaluation and analysis e.g., measurement, load/stress testing, profiling, workload characterization
• Broad understanding of term performance
  • Classical performance properties e.g., response times, throughput, scalability, elasticity, and efficiency
  • Other dependability-related quality properties e.g., availability, reliability, security
• Target both industrial technologies as well as purely academic domains
• Evaluate early prototypes and research results as well as full-blown implementations

Repository of Peer-Reviewed Tools
• Tools addressing recurring issues in quantitative system evaluation and analysis
• Selected tools:
  
Research Benchmarks
• Target existing & newly emerging technologies
• Representative application scenarios and workloads
• Metrics
• Workload scaling and customization guidelines

Other Selected Activities
• Portal for benchmarking-related resources
• SPEC Distinguished Dissertation Award
• Conference and workshop organization
• e.g., ICPE (http://www.icpe-conference.org/)

Working Groups
• Big Data
• Cloud Computing
• DevOps Performance
• Intrusion Detection Systems
• Power

Members
Advanced Strategic Technology LLC * Apple Inc. * ARM * bankmark UG * Barcelona Supercomputing Center
BEZNet * Charles University * Cisco Systems * Cloudera, Inc * Delft University of Technology * Dell fortiss GmbH * Friedrich-Alexander-University Erlangen-Nuremberg * Goethe University Frankfurt
Hewlett Packard Enterprise * Huawei * IBM * Imperial College London * Intel * Lund University
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