



## Application Benchmark

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## Application Benchmark

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### Synonyms

Benchmark; Performance benchmark

### Definition

An application benchmark is a suite of tasks that are representative of typical workloads in an application domain.

### Main Text

Unlike a MICROBENCHMARK, an application benchmark specifies broader tasks that are aimed at exercising most components of a system or tool. Each individual task in the benchmark is assigned a relative *weight*, usually reflecting its frequency or importance in the application being modeled. A meaningful interpretation of the benchmark results has to take these weights into account.

The Transaction Processing Performance Council (TPC) is a body with a long history of defining and published benchmarks for database systems. For

instance, it has defined benchmarks for Online Transaction Processing applications (TPC-C and TPC-E), Decision Support applications (TPC-H), and for an Application Server setting (TPC-App).

Other examples of application benchmarks are: the OO1 and OO7 benchmarks, developed for object-oriented databases, and XMark, X Bench and TPoX, developed for XML applications.

### Cross-references

- ▶ Micro-Benchmarks
- ▶ XML Application

### Recommended Reading

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4. Schmidt A., Waas F., Kersten M.L., Carey M.J., Manolescu I., and Busse R. XMark: a benchmark for XML data management. In Proceedings of the Very Large Database Conference. Hong Kong, China, 2002, pp. 974–985.
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