



ADMINISTRACIÓN DE RECURSOS

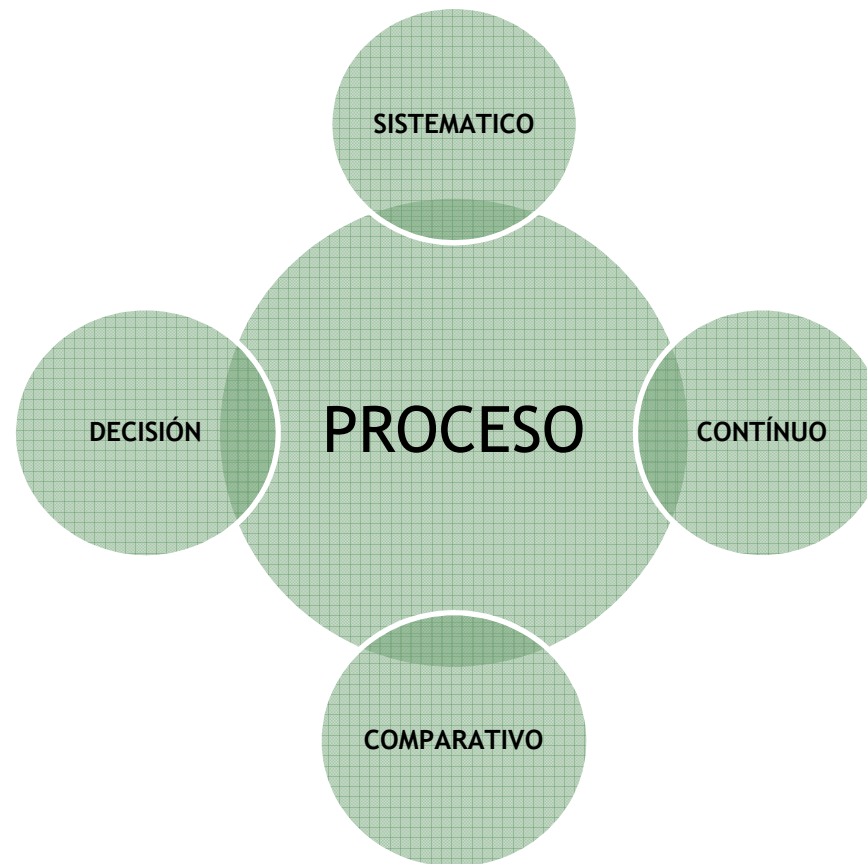
BENCHMARK



AGENDA

- ¿QUÉ ES BENCHMARK?
- ¿PARA QUE SIRVE?
- ETAPAS DEL PROCESO
- DESCRIPCIÓN DE LAS ETAPAS
- BENCHMARKS MÁS CONOCIDOS

¿QUÉ ES BENCHMARK?

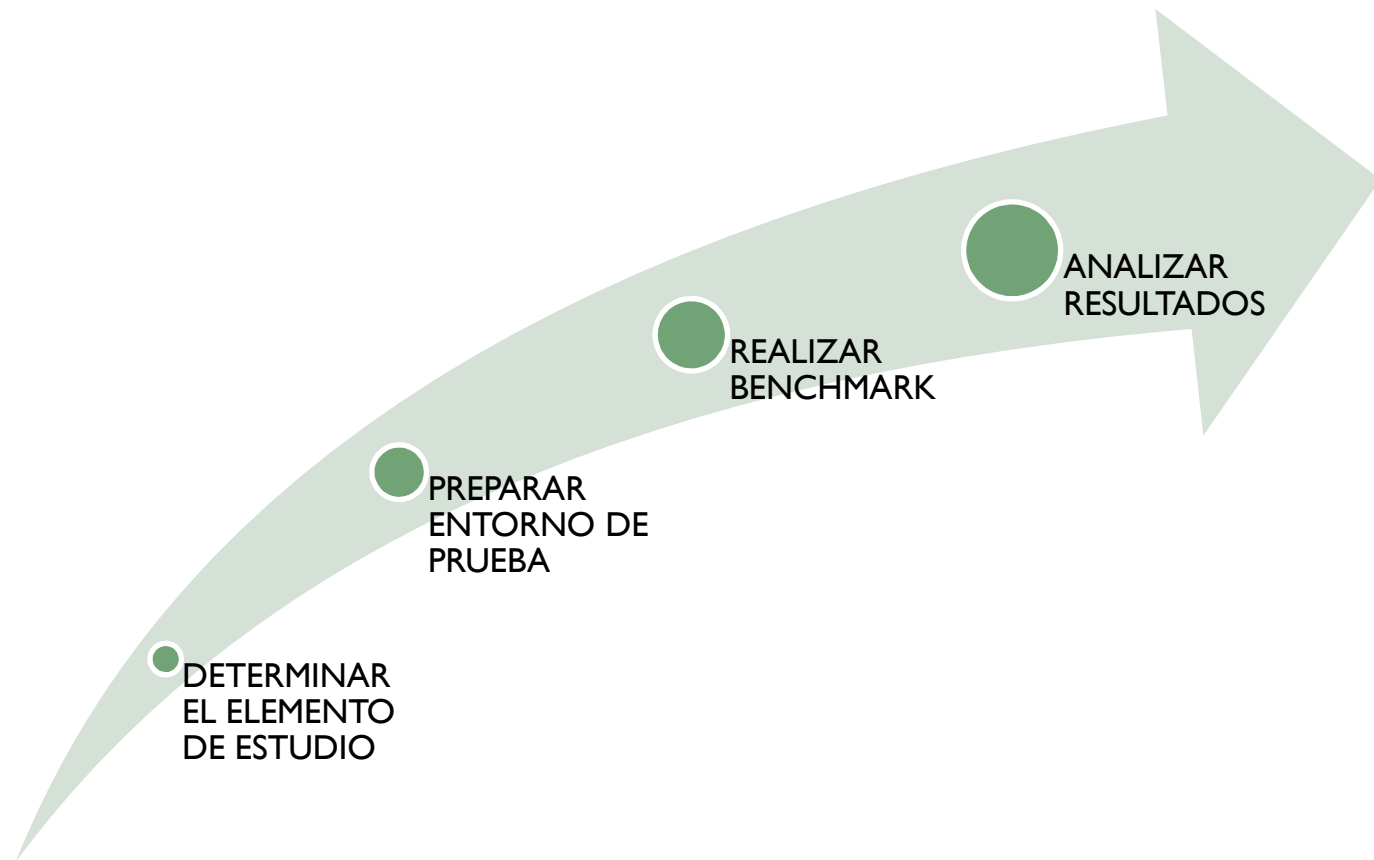




¿ PARA QUE SIRVE?

- **COMPARAR ELEMENTOS A TRAVÉS DE CARACTERÍSTICAS CLAVES PARA LA SOLUCIÓN**
- **OBTENER UN RESULTADO OBJETIVO**
- **OBTENER LA MEJOR RELACIÓN COSTO / BENEFICIO**
- **COMPROBAR SI LOS ELEMENTOS ESTUDIADOS SE ADECUAN A LAS NECESIDADES**

ETAPAS DEL PROCESO





DESCRIPCIÓN DE LAS ETAPAS

DETERMINAR EL ELEMENTO DE ESTUDIO

- Determinar qué se va a someter a estudio
- Elegir los factores y variables claves
- Seleccionar las opciones del mercado

PREPARAR ENTORNO DE PRUEBA

- Recopilar requerimientos del tipo de Benchmark.
- Realización de tareas previas a la etapa de ejecución



DESCRIPCIÓN DE LAS ETAPAS (Cont.)

REALIZAR BENCHMARK

- Someter el elemento a las pruebas
- Tomar muestras de las respuestas de las distintas variables analizadas.
- Realizar comparaciones y obtener resultados.

ANALIZAR RESULTADOS

- Descartar elementos que no cumplen con las necesidades
- Realizar informes para mostrar los resultados
- Determinar si se requiere recalibrar el benchmark.
- Desarrollar planes de acción.

BENCHMARKS MÁS CONOCIDOS

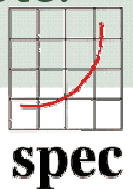
HINT - Hierarchical INTEgration

- Unidad de medida: QUIPS (QUality Improvement Per Second).
- Se exploran los límites computacionales resolviendo los límites racionales inferior y superior de:

$$\int_0^1 \frac{1-x}{1+x} dx$$

Standards Performance Evaluation Corporation (SPEC)

- Establece y apoya un set de benchmarks estandarizados que pueden ser aplicados a la nueva generación de computadores de alto rendimiento
- Integrantes: Cisco, HP, Samsung, Dell, VMware, Apple, IBM, Intel, Lenovo, Oracle, EMC, Red Hat, etc.



www.spec.org



Standard Performance Evaluation Corporation

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The Standard Performance Evaluation Corporation (SPEC) is a non-profit corporation formed to establish, maintain and endorse a standardized set of relevant benchmarks that can be applied to the newest generation of high-performance computers. SPEC develops benchmark suites and also reviews and publishes submitted results from our [member organizations](#) and other benchmark licensees.

What's New:

03/18/2014: - SPEC/HPG announces the release of [SPEC ACCEL V1.0](#), a benchmark suite which measures performance with computationally intensive parallel applications running under the OpenCL and OpenACC APIs. The suite exercises the performance of the accelerator, host CPU, memory transfer between host and accelerator, support libraries and drivers, and compilers.

03/18/2014: - SPEC announces the availability of the [Chauffeur Worklet Development Kit \(WDK\)](#), designed for use in creating new workloads for use in the Chauffeur framework. Chauffeur was designed to simplify the development of workloads for measuring both performance and energy efficiency.

BENCHMARKS MÁS CONOCIDOS (Cont.)

BAPCo - *Business Applications Performance Corporation*

- Organismo integrado por: Dell, HP, Intel, Microsoft, Toshiba, Samsung, Sony, Acer, Lenovo, etc.
- Desarrolla principalmente el soft Sysmark. Que se utiliza para analizar el rendimiento de programas relacionados con la creación de video, modelado 3D, etc.



3DMark

- Análisis de rendimiento 3D sobre tarjetas gráficas y ordenadores.
- Hay sitios Web que evalúan la performance de los videojuegos en diferentes equipos base a las respuestas obtenidas por este software.

www.bapco.com



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TabletMark[®]
Windows[®] 8



BAPCo[®]



SYSmark[®] 2012 Lite 1.5
Windows[®] 7 & 8 (32-bit)

3DMARK®

The Gamer's Benchmark

3DMark

The Gamer's Benchmark for all your hardware and devices

Windows



[More download options](#)

Android



[More download options](#)

Apple iOS

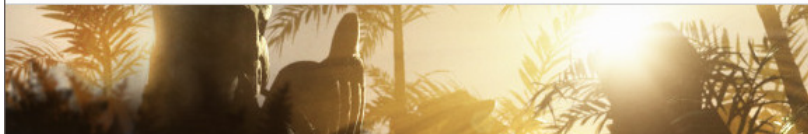


Windows RT



3DMark 11

The Gamer's Benchmark for DirectX 11



3DMark Vantage

The Gamer's Benchmark for DirectX 10



BENCHMARKS MÁS CONOCIDOS (Cont.)

Linpack

- Medición de la eficiencia de sistemas multiprocesadores.
- Se describe la performance para resolver un problema de matrices de diferentes tamaños.
- Unidad de medida: MFlops (millones de operaciones de coma flotante por segundo).

Aquamark

- Software de Benchmark para la evaluación de requisitos de ejecución de juegos en ordenadores, evaluando desempeño gráfico y de procesamiento.

Recommended

System: Windows 98, Windows ME, Windows 2000, Windows XP, DirectX 9

Graphics card: DirectX 9-compatible 64 MB graphics card

Sound card: DirectX 8-compatible sound card

Processor: 1 GHz Pentium/Athlon

Memory: 256 MB



Author:	Massive Development
Version:	3
OS:	Windows 2K/XP
File Size:	62.4 MB
MD5:	16f34ef7a48c93fd4f37b921f041af5b
Date Added:	10/8/2004
Downloads:	29,217


BENCHMARKS DE DISPOSITIVOS MÓVILES

QUADRANT (<http://www.aurorasoftworks.com/products/quadrant>)


	Standard	Advanced	Professional
Intended audience	Android users.	Tech saavy users experimenting with custom ROMs and overclocking.	Hardware vendors and game developers testing new devices, professional bloggers planning to publish benchmark results.
8 CPU tests	✓	✓	✓
1 memory test	✓	✓	✓
4 I/O tests	✓	✓	✓
1 2D graphics test	✓	✓	✓
3 3D graphics tests	✓	✓	✓
Total score	✓	✓	✓
Sub scores	✗	✓	✓
Offline score view	✗	✓	✓
Unlimited runs	✓	✓	✓
Custom settings	✗	✓	✓
System information	✓	✓	✓
Ad free	✗	✓	✓
Commercial use	✗	✗	✓
Number of users	Unlimited	1	1
Availability	Google Play , SlideME	Google Play , SlideME	Google Play , SlideME
Price	Free	2.99 USD	24.99 USD

BENCHMARKS DE DISPOSITIVOS MÓVILES

AnTuTu (<http://www.antutu.com>)

LABS 中文


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ANTUTU BENCHMARK

AnTuTu Benchmark is a comprehensive Android Benchmarking application. It includes "Memory Performance", "CPU Integer Performance", "CPU Floating Point Performance", "2D 3D Graphics Performance", "SD card read-write speed", "Database IO" performance testing.



[Download](#)



ANTUTU 3DRATING BENCHMARK


AnTuTu 3DRating is a professional Android GPU performance test application. Different than AnTuTu Benchmark, 3DRating only focus on 3D part of GPU in Android devices, while 3D performance is the key performance to game softwares.


[Download](#) [Download](#) [Download](#)


Device	Ratio	Top	Average	Size	Date
 samsung GT-N7100	<div><div></div></div>	2591	1675	1024x2048	28/04/2013
 samsung SAMSUNG-SGH-I777	<div><div></div></div>	2571	1876	1024x2048	25/04/2013

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NEW PHONES

PANTECH

LG Optimus

HTC One VX

Comparación Resultados Benchmark AnTuTu vs Quadrant



BENCHMARKS DE DISPOSITIVOS MÓVILES

Smartbench

Smartbench 2012

123 SmartMobile



★★★★★ (257)

INSTALAR



No tienes dispositivos.

Más contenido del desarrollador



Smartbench 2011

123 SMARTMOBILE

★★★★★ (966)

Gratis



Smartbench 2010

123 SMARTMOBILE

★★★★★ (541)

Gratis

INFORMACIÓN GENERAL

OPINIONES DE LOS USUARIOS

NOVEDADES

PERMISOS

Descripción

Smartbench 2012 is a multi-core friendly benchmark application that measures the overall performance of your smartphone. It reports both Productivity and Gaming Index to suit both productivity users and 3D gaming users.

Key improvements from Smartbench 2011:

- Heavier load on each tests.
- A new 3D test (Shark)
- Introduction of high polygon count objects in some tests
- Detects high resolution screens and uses them appropriately.

Smartbench 2012 will be better prepared for the quad-core world. Unfortunately this also means it will run slower on older devices.

Smartbench 2012 will run slower on high-resolution tablet devices. All 3D tests are now rendered in full native resolutions so naturally it will stress hardware harder on these devices. This also applies to higher resolution hand-held devices.

New and existing Smartbench Donate users will continue to benefit in Smartbench 2012:

- No ads
- Results History
- See result chart without running the test first

BENCHMARKS DE DISPOSITIVOS MÓVILES

Performance Test Mobile (<http://www.passmark.com>)

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SOFTWARE

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CPU Benchmarks Video Card Benchmarks Hard Drive Benchmarks RAM PC Systems **Android** iOS / iPhone

Android™ Benchmarks

Performance Comparison of Android Devices




Android benchmarks - Updated Daily!


PassMark Software, the leader in PC benchmarks, now brings you benchmarks for Android devices. The results from users of [PassMark's PerformanceTest Mobile](#) app (currently available for Android devices) have been collected from various phones and posted to this web site. The generated chart is updated daily with new submissions.

✓ **Ad muted.** [Undo](#)


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How does your device compare?
Add your device to our benchmark chart with [PerformanceTest Mobile](#)!




Android PassMark Chart



Android CPUMark Chart



Android Memory Mark Chart



BENCHMARKS DE DISPOSITIVOS MÓVILES

Performance Test Mobile

Android Devices - CPUMark Rating

This chart compares the CPUMark Rating made using [PerformanceTest Mobile](#) benchmark results and is updated daily. Submitted baseline ratings are averaged to determine the CPU rating seen on the charts. This chart shows the CPUMark for various phones, smartphones and other Android devices. The **higher** the rating the **better** the performance. Find out which Android device is best for your hand held needs!



How does your device compare?
Add your device to our benchmark
chart with [PerformanceTest Mobile!](#)

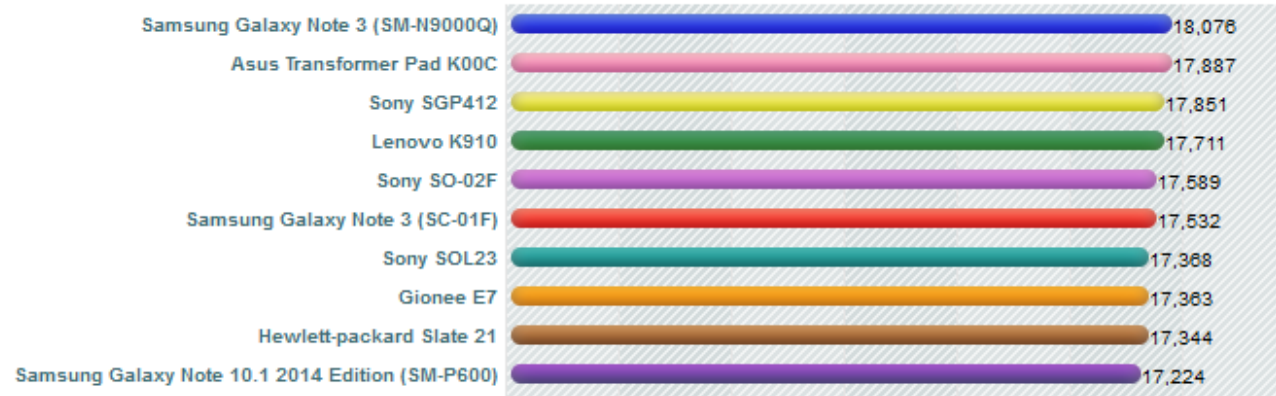
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Android CPU Mark Rating Updated 22nd of March 2014



TPC - Transaction Processing Performance Council

- ORGANIZACIÓN SIN FINES DE LUCRO (www.tpc.org)
- DEFINE BENCHMARKS DE MEDICIÓN DE PROCESAMIENTO DE TRANSACCIONES EN BASES DE DATOS TRANSACCIONALES. (OLTP: ON LINE TRANSACTION PROCESSING)
- ESTA COMPUESTO POR VARIOS PROGRAMAS:

TPC-C
TPC-E
TPC-H
TPC-DS

TPC Transaction Processing
Performance Council

TPC - C

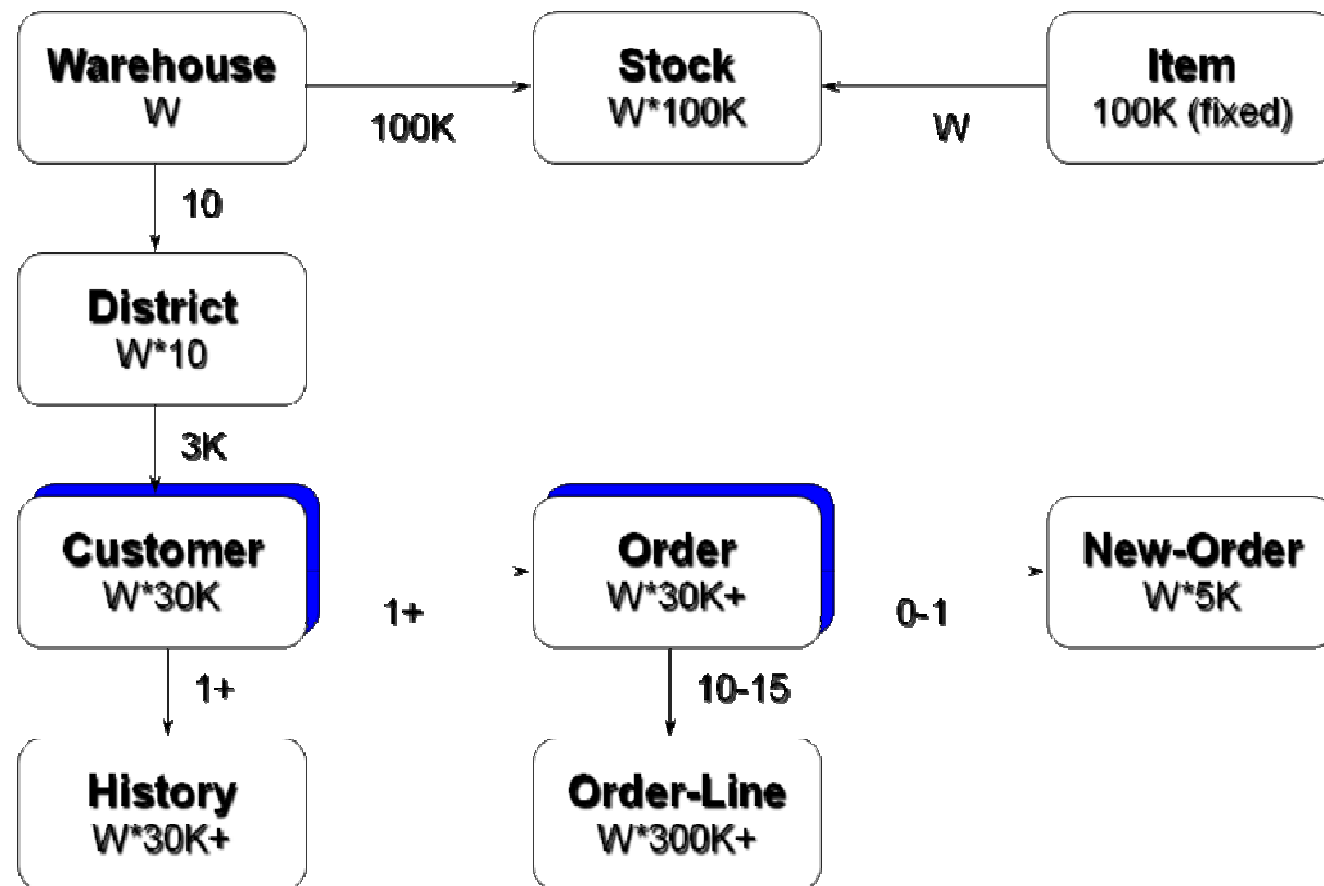
TPC Transaction Processing
Performance Council

- BENCHMARK DE BASE DE DATOS MÁS RECONOCIDO Y UTILIZADO EN EL MERCADO.
- UNIDAD DE MEDIDA: TRANSACCIONES POR MINUTO (tmpC).
- SIMULA LA CARGA DE TRABAJO (WORKLOAD) MEDIANTE UN CONJUNTO DE TERMINALES QUE SOLICITAN LA EJECUCIÓN DE UNA MEZCLA DE CINCO TIPOS DE TRANSACCIONES:
 - NEW-ORDER: Introduce una nueva orden.
 - PAYMENT: Pago de una orden.
 - ORDER-STATUS: Consulta del estado de una orden.
 - DELIVERY: Reparto de las órdenes de un almacén.
 - STOCK-LEVEL: Consulta las existencias de los artículos

TPC - C

TPC Transaction Processing
Performance Council

ESQUEMA DE LA BASE DE DATOS



TPC - C

TPC Transaction Processing
Performance Council

TPC-C EXIGE QUE LAS TRANSACCIONES SIMULADAS “SEAN” ACID

- ATOMICIDAD
- CONSISTENCIA
- AISLAMIENTO (ISOLATION)
- DURABILIDAD

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TPC-C

TPC-C is an on-line transaction processing benchmark.

The current version of the TPC-C benchmark is Version 5.11. The TPC-C has continued to evolve its benchmarks to remain as representative of current practice as possible. The TPC-C benchmark continues to be a popular yardstick for comparing OLTP performance on various hardware and software configurations. For a short period after initial release of Version 5, upgrades from previous benchmark runs were allowed but required new Full Disclosure Reports and an auditor's review of the upgrade. Those results can be discerned in the table as having availability dates prior to the submitted dates.

Compared to the previous versions, pricing changes included reducing maintenance support pricing to 3 years down from 5 years, 24x7 maintenance up from 8x5, removing terminal network pricing (hubs, switches), and allowing pricing quotes from web pages and print materials. Runtime changes included reducing the disk space requirements to 60 days from 180 days, increasing the measurement interval to 2 hours up from 20 minutes, reporting checkpoint durations, and reporting the number of lost connections of users during the measurement interval. Because these revisions changed the price/performance metric and reporting requirements, Version 5 results may not be compared to results from earlier versions.

- ▣ [More Information about Pricing](#)

View Results

- ▣ [Top Ten TPC-C Results by Performance:](#)
 - [All Results](#) / [Clustered Results](#) / [Non-Clustered Results](#)
- ▣ [Top Ten TPC-C Results by Price/Performance:](#)
 - [All Results](#) / [Clustered Results](#) / [Non-Clustered Results](#)
- ▣ [Top Ten TPC-C Results by Watts/Performance](#)
- ▣ [Ten Most Recently Published TPC-C Results](#)
- ▣ [All Results](#)
 - [By Hardware Vendor](#)
 - [By Database Vendor](#)
- ▣ [Advanced Sorting Options](#)
- ▣ [Results Spreadsheet \(downloadable file\)](#)

Summary

Approved in July of 1993, TPC Benchmark C is an on-line transaction processing (OLTP) benchmark. TPC-C is more complex than previous OLTP benchmarks such as TPC-A.

TPC – C: Performance Results

TPC-C - Top Ten Performance Results Version 5 Results As of 22-Mar-2014 11:36 PM [GMT]



Note 1: The TPC believes it is not valid to compare prices or price/performance of results in different currencies.

☐ All Results
 ☐ Clustered Results
 ☐ Non-Clustered Results
 Currency All










Rank	Company	System	Performance (tpmC)	Price/tpmC	Watts/KtpmC	System Availability	Database	Operating System	TP Monitor	Score
1	ORACLE	SPARC T5-8 Server	8,552,523	.55 USD	NR	09/25/13	Oracle 11g Release 2 Enterprise Edition with Oracle Partitioning	Oracle Solaris 11.1	Oracle Tuxedo CFSR	100.00
2	ORACLE	Sun Server X2-8	5,055,888	.89 USD	NR	07/10/12	Oracle Database 11g R2 Enterprise Edition w/Partitioning	Oracle Linux w/Unbreakable Enterprise Kernel R2	Tuxedo CFS-R	100.00
3	IBM	IBM System x3850 X5	3,014,684	.59 USD	NR	09/22/11	IBM DB2 ESE 9.7	SUSE Linux Enterprise Server 11 SP1 for X86_64	Microsoft COM+	100.00
4	CISCO	Cisco UCS C240 M3 Rack Server	1,609,186	.47 USD	NR	09/27/12	Oracle Database 11g Standard Edition One	Oracle Linux w/Unbreakable Enterprise Kernel R2	Microsoft COM+	100.00
5	IBM	IBM Flex System x240	1,503,544	.53 USD	NR	08/16/12	IBM DB2 ESE 9.7	Red Hat Enterprise Linux 6.2	Microsoft COM+	100.00
6	IBM	IBM System x3650 M4	1,320,082	.51 USD	NR	02/25/13	IBM DB2 ESE 9.7	Red Hat Enterprise Linux 6.4 with KVM	Microsoft COM+	100.00
7	HP	HP ProLiant Blade BL685c G7	1,263,599	.51 USD	NR	05/23/11	Microsoft SQL Server 2005 Enterprise Edition x64 SP3	Microsoft Windows Server 2008 R2 Enterprise Edition x64	Microsoft COM+	100.00
8	CISCO	Cisco UCS C250 M2 Extended-Memory Server	1,053,100	.58 USD	NR	12/07/11	Oracle Database 11g Release 2 Standard Ed One	Oracle Linux w/Unbreakable Enterprise Kernel R2	Microsoft COM+	100.00
9	HP	HP ProLiant DL380 G7	1,024,380	.65 USD	NR	06/20/11	Microsoft SQL Server 2005 Enterprise Edition x64 SP3	Microsoft Windows Server 2008 R2 Enterprise Edition	Microsoft COM+	100.00

TPC – C: Price/Performance Results

TPC-C - Top Ten Price/Performance Results - Non-Clustered Version 5 Results As of 22-Mar-2014 11:41 PM [GMT]

Note 1: The TPC believes it is not valid to compare prices or price/performance of results in different currencies.

☒ All Results
 ☐ Clustered Results
 ☐ Non-Clustered Results
 Currency United States - Dollar (USD) ▼

Rank	Company	System	Performance (tpmC)	Price/tpmC	Watts/KtpmC	System Availability	Database	Operating System	TP Monitor
1		Cisco UCS C240 M3 Rack Server	1,609,186	.47 USD	NR	09/27/12	Oracle Database 11g Standard Edition One	Oracle Linux w/Unbreakable Enterprise Kernel R2	Microsoft COM+
2		IBM System x3650 M4	1,320,082	.51 USD	NR	02/25/13	IBM DB2 ESE 9.7	Red Hat Enterprise Linux 6.4 with KVM	Microsoft COM+
3		HP ProLiant Blade BL685c G7	1,263,599	.51 USD	NR	05/23/11	Microsoft SQL Server 2005 Enterprise Edition x64 SP3	Microsoft Windows Server 2008 R2 Enterprise Edition x64	Microsoft COM+
4		IBM Flex System x240	1,503,544	.53 USD	NR	08/16/12	IBM DB2 ESE 9.7	Red Hat Enterprise Linux 6.2	Microsoft COM+
5		SPARC T5-8 Server	8,552,523	.55 USD	NR	09/25/13	Oracle 11g Release 2 Enterprise Edition with Oracle Partitioning	Oracle Solaris 11.1	Oracle Tuxedo CFSR
6		Cisco UCS C250 M2 Extended-Memory Server	1,053,100	.58 USD	NR	12/07/11	Oracle Database 11g Release 2 Standard Ed One	Oracle Linux w/Unbreakable Enterprise Kernel R2	Microsoft COM+
7		IBM System x3850 X5	3,014,684	.59 USD	NR	09/22/11	IBM DB2 ESE 9.7	SUSE Linux Enterprise Server 11 SP1 for X86_64	Microsoft COM+
8		HP ProLiant DL380 G7	1,024,380	.65 USD	NR	06/20/11	Microsoft SQL Server 2005 Enterprise Edition x64 SP3	Microsoft Windows Server 2008 R2 Enterprise Edition	Microsoft COM+
9		Sun Server X2-8	5,055,888	.89 USD	NR	07/10/12	Oracle Database 11g R2 Enterprise Edition w/Partitioning	Oracle Linux w/Unbreakable Enterprise Kernel R2	Tuxedo CFS-R



Muchas Gracias