

別紙

ベンチマーク測定結果

No.	ベンチマーク名称	「SPARC M10-4S」測定値／測定環境 1 位	2 位の記録
1	2 階層 SAP® SD standard application benchmark	測定値: 153,000 SAP SD users 測定環境: SPARC M10-4S, SAP enhancement package 5 for SAP ERP 6.0, Oracle Solaris 11 and Oracle Database 11g, 40x SPARC64 X processors (640 cores, 1280 threads), 10240GB memory. Certification number: 2013014. Results as of May 23, 2013.	測定値: 126,063 SAP SD users 測定環境: IBM Power 795, SAP enhancement package 4 for SAP ERP 6.0, AIX 7.1 and DB2 9.7, 32x POWER7 processors (256 cores, 1024 threads), 4096GB memory. Certification number: 2010046. Results as of Nov 15, 2010.
2	2 階層 SAP® SD standard application benchmark (16 CPU class)	測定値: 82,000 SAP SD users 測定環境: SPARC M10-4S, SAP enhancement package 5 for SAP ERP 6.0, Oracle Solaris 11 and Oracle Database 11g, 16x SPARC64 X+ processors (256 cores, 512 threads), 4096GB memory. Certification number: 2014012. Results as of April 7, 2014.	測定値: 70,032 SAP SD users 測定環境: IBM Power 795, SAP enhancement package 4 for SAP ERP 6.0, AIX 7.1 and DB2 9.7, 16x POWER7 processors (128 cores, 512 threads), 2048GB memory. Certification number: 2010042. Results as of Oct 07, 2010.
3	SPECjbb2013 – MultiJVM max-jOPS	測定値: 411,627 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 16 processors, 256 cores), 8192 GB of memory, OS: Oracle Solaris 11.1 SRU 15.4, JVM: Java HotSpot™ 64-Bit Server VM, version 1.8.0	測定値: 308,936 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 16 processors, 256 cores), 4352 GB of memory, OS: Oracle Solaris 11.1 SRU 6.4, JVM: Java HotSpot™ 64-Bit Server VM, version 1.7.0_17
4	SPECjbb2013 – MultiJVM critical-jOPS	測定値: 201,829 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 16 processors, 256 cores), 8192 GB of memory, OS: Oracle Solaris 11.1 SRU 15.4, JVM: Java HotSpot™ 64-Bit Server VM, version 1.8.0	測定値: 168,127 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 16 processors, 256 cores), 4352 GB of memory, OS: Oracle Solaris 11.1 SRU 6.4, JVM: Java HotSpot™ 64-Bit Server VM, version 1.7.0_17
5	SPECjbb2005	測定値: 35,912,688 bops 70,142 bops/JVM 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 64 processors, 1,024 cores), Oracle Solaris 11.1, JVM: Java HotSpot 32-Bit Server VM on Solaris, version 1.6.0_45, JVM instances: 512	測定値: 35,118,352 bops 548,724 bops/JVM 測定環境: SGI UV2000, Intel Xeon E5-4650(Intel Turbo Boost Technology up to 3.3GHz) (2.7 GHz, 64 processors, 512 cores), Red Hat Enterprise Linux Server release 6.2 (Santiago) (2.6.32-71.el6.x86_64.uv), JVM: Oracle Java HotSpot 64-Bit Server VM on Linux, version 1.6.0_32, JVM instances: 64
6	SPECint_rate2006	測定値: 31,400 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 64 processors, 1,024 cores), Oracle Solaris 11.1 SRU15.4, Version 12.3 of Oracle Solaris Studio 10/13 Patch Set	測定値: 23,800 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 64 processors, 1,024 cores), Oracle Solaris 11.1, Oracle Solaris Studio 12.3, 1/13 Platform Specific Enhancement
7	SPECint_rate2006 (32CPU)	測定値: 12,500 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 32 processors, 512 cores), Oracle Solaris 11.1, Oracle Solaris Studio 12.3, 1/13 Platform Specific Enhancement	測定値: 11,300 測定環境: IBM Power 795, POWER7 (4.0 GHz, 32 processors, 256 cores), Red Hat Enterprise Linux Server release 6.0 (ppc64) kernel 2.6.32-71.el6.ppc64, IBM XL C/C++ for Linux, V11.1 Updated with the Nov2010 PTF
8	SPECint_rate2006 (16 CPUs)	測定値: 8,290 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 16 processors, 256 cores), Oracle Solaris 11.1 , SRU15.4, Version 12.3 of Oracle Solaris Studio 10/13 Patch Set	測定値: 6,350 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 16 processors, 256 cores), Oracle Solaris 11.1, Oracle Solaris Studio 12.3, 1/13 Platform Specific Enhancement

No.	ベンチマーク名称	「SPARC M10-4S」測定値／測定環境 世界最高性能	2位の記録
9	SPECfp_rate2006	測定値: 19,700 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 64 processors, 1,024 cores), Oracle Solaris 11.1, Oracle Solaris Studio 12.3, 1/13 Platform Specific Enhancement	測定値: 10,500 測定環境: IBM Power 795, POWER7 (4.0 GHz, 32 processors, 256 cores), Red Hat Enterprise Linux Server release 6.0 (ppc64) kernel 2.6.32-71.el6.ppc64, IBM XL C/C++ for Linux, V11.1 Updated with the Nov2010 PTF
10	SPECfp_rate2006 (16 CPUs)	測定値: 7,200 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 16 processors, 256 cores), Oracle Solaris 11.1 SRU15.4, Version 12.3 of Oracle Solaris Studio 10/13 Patch Set	測定値: 5,860 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 16 processors, 256 cores), Oracle Solaris 11.1, Oracle Solaris Studio 12.3, 1/13 Platform Specific Enhancement
11	SPECfp_rate2006 (4 CPUs)	測定値: 1,830 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 4 processors, 64 cores), Oracle Solaris 11.1 SRU15.4, Version 12.3 of Oracle Solaris Studio 10/13 Patch Set	測定値: 1,760 測定環境: Dell PowerEdge R920, Intel Xeon E7-4890 v2 (2.80 GHz, 4 processors, 60 cores), SUSE Linux Enterprise Server 11, Intel C++ Studio XE 14.0.0.080 for Linux and Intel Fortran Studio XE 14.0.0.080 for Linux
12	SPECfp_rate2006 (1 CPU)	測定値: 462 測定環境: SPARC M10-4S, SPARC64 X+ (3.7 GHz, 1 processors, 16 cores), Oracle Solaris 11.1 SRU15.4, Version 12.3 of Oracle Solaris Studio 10/13 Patch Set	測定値: 374 測定環境: SPARC M10-1, SPARC64 X (2.8 GHz, 1 processors, 16 cores), Oracle Solaris 11.1, Oracle Solaris Studio 12.3, 1/13 Platform Specific Enhancement
13	STREAM (TRIAD)	測定値: 4,002GB/s 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 64 processors, 1,024 cores)	測定値: 805GB/s 測定環境: IBM Power 595, POWER6 (5 GHz, 32 processors, 64 cores)
14	STREAM (TRIAD) (32 CPUs)	測定値: 2,071GB/s 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 32 processors, 512 cores)	測定値: 805GB/s 測定環境: IBM Power 595, POWER6 (5 GHz, 32 processors, 512 cores)
15	STREAM (TRIAD) (16 CPUs)	測定値: 1,023GB/s 測定環境: SPARC M10-4S, SPARC64 X (3.0 GHz, 16 processors, 256 cores)	測定値: 162GB/s 測定環境: IBM Power 575, POWER6 (4.7 GHz, 16 processors, 32 cores)

本資料に掲載する性能情報は2014年4月8日時点の内容です。SPECint_rate2006、SPECfp_rate2006 および STREAM における世界最高性能は、HPC 用途を除いた登録値との比較結果です。

各ベンチマークテストの詳細および最新情報は以下のウェブサイトで確認できます。

SAP: <http://www.sap.com/campaigns/benchmark/index.epx>

SPEC: <http://www.spec.org>

STREAM: <http://www.cs.virginia.edu/stream/>