

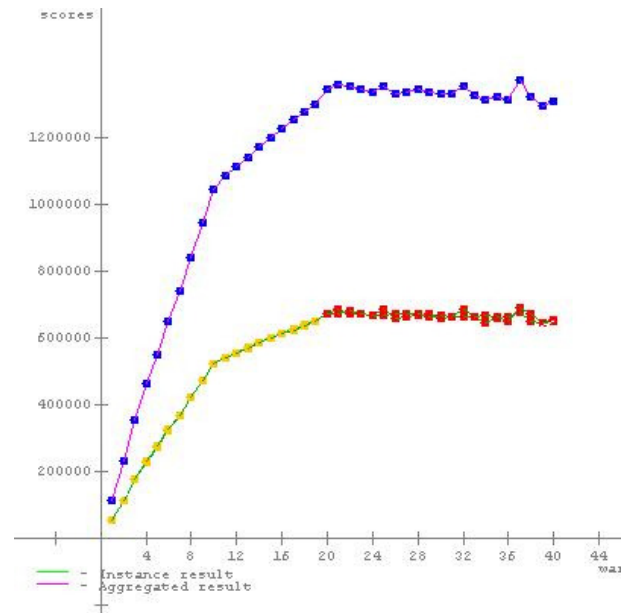
SPECjbb2005

SPECjbb2005 bops = 1333087, SPECjbb2005 bops/JVM = 666544

Cisco Systems Cisco UCS C260 M2 (Intel Xeon E7-2870, 2.4GHz)

Oracle Corporation Oracle Java HotSpot(TM) 64-Bit Server VM on Windows, version 1.6.0_24

JVM run	JVM Scores
1	664784
2	668303
SPECjbb2005 bops = 1333087, SPECjbb2005 bops/JVM = 666544	



Hardware	
Hardware Vendor	Cisco Systems
Vendor URL	http://www.cisco.com
Model	Cisco UCS C260 M2 (Intel Xeon E7-2870, 2.4GHz)
Processor	Intel Xeon E7-2870 (Intel Turbo Boost Technology up to 4.80GHz)
MHz	2400
# of Chips	2
# of Cores	20
# of Cores/Chip	10
HW Threading Enabled?	yes
Procs Avail to Java	40
Memory (MB)	524288
Memory Details	512GB(32 x 16GB 4Rx4 PC3L-8500R, ECC, running 1066MHz)
Primary cache	32KB I+32KB D on chip per core
Secondary cache	256KB(I+D) on chip per core
Other	30MB (I+D) on chip

Software	
Software Vendor	Oracle Corporation
Vendor URL	http://www.oracle.com
JVM Version	Oracle Java HotSpot(TM) 64-Bit Server VM on Windows, version 1.6.0_24
JVM Command Line	-Xmx29g -Xms29g -Xmn27g -XX:SurvivorRatio=60 -XX:TargetSurvivorRatio=90 -XX:ParallelGCThreads=20 -XX:AllocatePrefetchDistance=192 -XX:AllocatePrefetchLines=4 -XX:LoopUnrollLimit=45 -XX:InitialTenuringThreshold=20 -XX:MaxTenuringThreshold=40 -XX:InlineSmallCode=5500 -XX:MaxInlineSize=220 -XX:FreqInlineSize=2500 -XX:+UseLargePages -XX:+UseParallelOldGC -XX:+UseCompressedStrings -XX:+AggressiveOpts
JVM Initial Heap Memory (MB)	29696
JVM Maximum Heap Memory (MB)	29696
JVM Address bits	64
JVM CLASSPATH	.\jbb.jar; .\check.jar;
JVM BOOTCLASSPATH	c:\jre6u24\lib\alt-string.jar; c:\jre6u24\lib\alt-rt.jar; c:\jre6u24\lib\resources.jar; c:\jre6u24\lib\rt.jar; c:\jre6u24\lib\sunrsasign.jar; c:\jre6u24\lib\jsse.jar; c:\jre6u24\lib\jce.jar; c:\jre6u24\lib\charsets.jar; c:\jre6u24\lib\modules\jdk.boot.jar; c:\jre6u24\classes
OS Version	Microsoft Windows Server 2008 Enterprise Edition x64 SP1
Other software	

cache	per chip
Filesystem	NTFS
Disks	2 x 146GB 15K RPM SAS
Other hardware	Cisco UCS 6120XP 20 Port Fabric Interconnect, Cisco UCS 5100 Series Blade Server Chassis, Cisco UCS 2104XP Fabric Extender

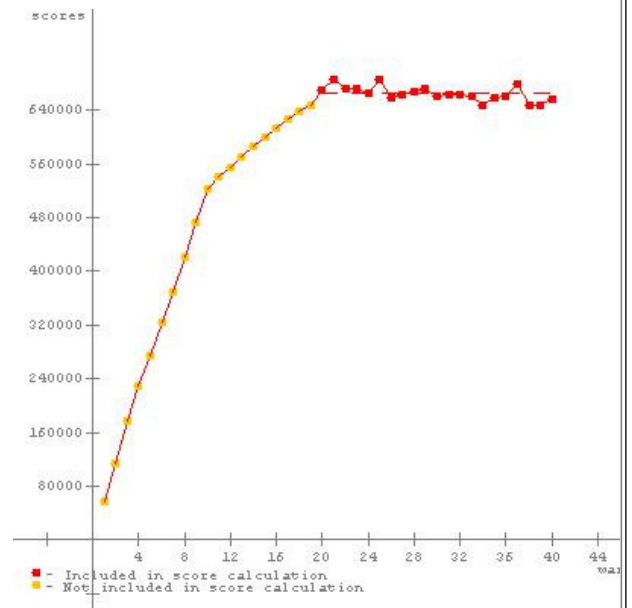
Test Information	
Tested by	Cisco Systems
SPEC license #	9019
Test location	San Jose, CA
Test date	Apr 1, 2011
H/w available	May-2011
JVM available	Feb-2011
OS available	Mar-2011
Other s/w available	N/A

AOT Compilation
Tuning
BIOS and Operating System tunings <ul style="list-style-type: none"> • Turned off "Hardware Prefetcher" in BIOS. • Turned off "Adjacent Cache Line Prefetch" in BIOS. • "Lock pages in memory" enabled for benchmark user. • Each JVM instance was affinized to a chip.
Notes
Command line options are described under http://download.oracle.com/docs/cd/E17409_01/javase/6/docs/index.html and at http://java.sun.com/javase/technologies/hotspot/vmoptions.jsp

JVM 1 Scores:

No errors. Valid run.

Warehouses	SPECjbb2005 bops	Incl. in metric
1	57155	
2	114872	
3	176273	
4	229702	
5	274099	
6	323589	
7	368279	
8	420862	
9	472259	
10	522987	
11	541535	
12	555550	
13	570557	
14	586269	
15	600679	
16	613478	
17	626612	
18	638801	
19	648158	
20	670807	*
21	686882	*
22	672971	*



23	673415	*
24	666220	*
25	685500	*
26	657924	*
27	662710	*
28	668296	*
29	672702	*
30	660119	*
31	663617	*
32	662337	*
33	661213	*
34	646933	*
35	658033	*
36	661771	*
37	678408	*
38	647525	*
39	647225	*
40	655857	*
SPECjbb2005	(from 20 to 40)	664784 SPECjbb2005 bops

SPEC license # 9019

Tested by: Cisco Systems

Test date: Apr 1, 2011

JVM 2 Scores:

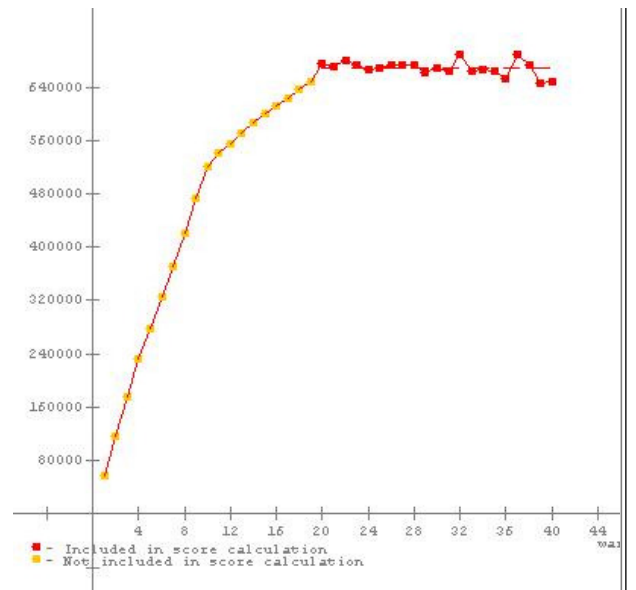
No errors. Valid run.

Warehouses	SPECjbb2005 bops	Incl. in metric
1	57278	
2	115858	
3	176539	
4	232741	
5	277365	
6	326423	
7	370055	
8	421224	
9	472086	
10	520878	
11	540956	
12	554425	
13	570208	
14	585572	
15	599425	
16	612511	
17	624066	
18	637501	
19	648726	
20	674319	*

scores |

SPECjbb

21	670625	*
22	679261	*
23	671841	*
24	665886	*
25	667839	*
26	672608	*
27	673261	*
28	673251	*
29	662252	*
30	669313	*
31	664467	*
32	687982	*
33	664078	*
34	665798	*
35	662922	*
36	651541	*
37	689806	*
38	671959	*
39	646488	*
40	648874	*
SPECjbb2005	(from 20 to 40)	668303 SPECjbb2005 bops



SPEC license # 9019	Tested by: Cisco Systems	Test date: Apr 1, 2011
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SPECjbb2005 Version: [SPECjbb2005 1.07, March 15, 2006]
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