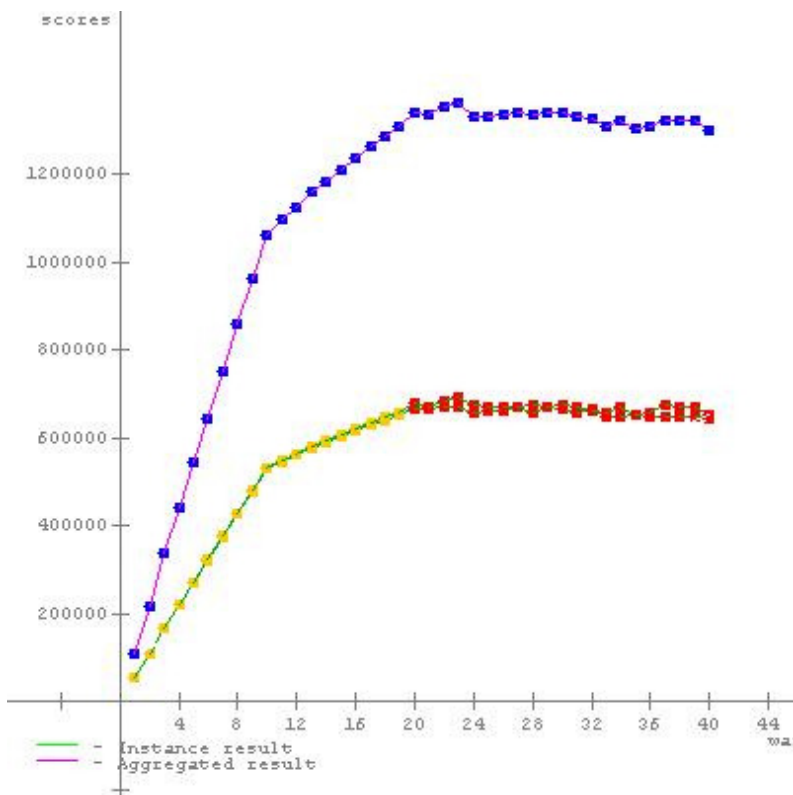


SPECjbb2005 **SPECjbb2005 bops = 1329283, SPECjbb2005 bops/JVM = 664642**

Cisco Systems Cisco UCS B230 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	658769
2	670514
SPECjbb2005 bops = 1329283, SPECjbb2005 bops/JVM = 664642	



Hardware	
Hardware Vendor	Cisco Systems
Vendor URL	http://www.cisco.com
Model	Cisco UCS B230 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

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	-Xmx28g -Xms28g -Xmn26g - XX:SurvivorRatio=60 - XX:TargetSurvivorRatio=90 - XX:ParallelGCThreads=20 - XX:AllocatePrefetchDistance=192 - XX:AllocatePrefetchLines=4 - XX:LoopUnrollLimit=45 - XX:InitialTenuringThreshold=20 - XX:MaxTenuringThreshold=25 - XX:InlineSmallCode=5500 - XX:MaxInlineSize=220 -XX:FreqInlineSize=2500 -XX:+UseLargePages -XX:+UseParallelOldGC - XX:+UseCompressedStrings - XX:+AggressiveOpts

Procs Avail to	40
Java Memory (MB)	131072
Memory Details	128GB(32 x 4GB 2Rx4 PC3L-10600R, ECC, running 1066MHz)
Primary cache	32KB I+32KB D on chip per core
Secondary cache	256KB(I+D) on chip per core
Other cache	30MB (I+D) on chip per chip
Filesystem	NTFS
Disks	1 x 64GB SATA SSD
Other hardware	Cisco UCS 6120XP 20 Port Fabric Interconnect, Cisco UCS 5100 Series Blade Server Chassis, Cisco UCS 2104XP Fabric Extender

JVM Initial Heap Memory (MB)	28672
JVM Maximum Heap Memory (MB)	28672
JVM Address bits	64
JVM CLASSPATH	.\jbb.jar; .\check.jar;
JVM BOOTCLASSPATH	c:\Java\Sun-6u24\jre\lib\alt-string.jar; c:\Java\Sun-6u24\jre\lib\alt-rt.jar; c:\Java\Sun-6u24\jre\lib\resources.jar; c:\Java\Sun-6u24\jre\lib\rt.jar; c:\Java\Sun-6u24\jre\lib\sunrsasign.jar; c:\Java\Sun-6u24\jre\lib\jsse.jar; c:\Java\Sun-6u24\jre\lib\jce.jar; c:\Java\Sun-6u24\jre\lib\charsets.jar; c:\Java\Sun-6u24\jre\lib\modules\jdk.boot.jar; c:\Java\Sun-6u24\jre\classes
OS Version	Microsoft Windows Server 2008 Enterprise Edition x64 SP1
Other software	

Test Information	
Tested by	Cisco Systems
SPEC license #	9019
Test location	San Jose, CA
Test date	Mar 28, 2011
H/w available	May-2011
JVM available	Feb-2011
OS available	Mar-2011
Other s/w available	N/A

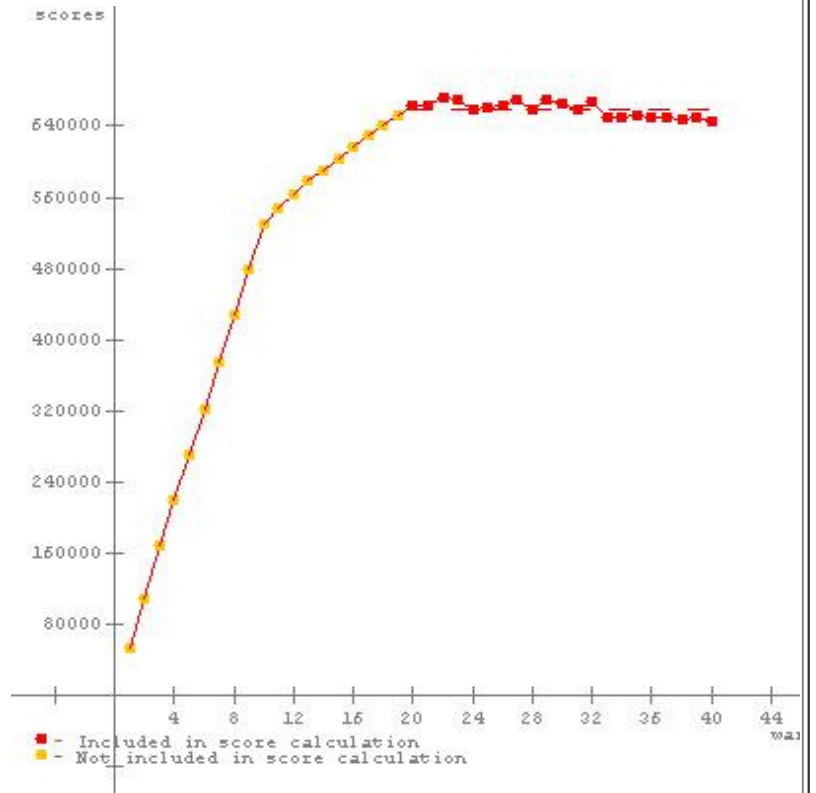
AOT Compilation	
Tuning	
Operating system tunings	
<ul style="list-style-type: none"> • Turned off "Hardware Prefetcher" in BIOS. • Turned off "Adjacent Cache Line Prefetch" in BIOS. • "Lock pages in memory" enabled for benchmark user. • Each JVM instance was affinized to a chip. 	
Notes	
Command line 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	54341	
2	109119	

3	168168	
4	219930	
5	271790	
6	321644	
7	374071	
8	428128	
9	479538	
10	529755	
11	546981	
12	562708	
13	578023	
14	590210	
15	603853	
16	616963	
17	629822	
18	640136	
19	651226	
20	664144	*
21	664144	*
22	672862	*
23	669684	*
24	658798	*
25	660510	*
26	663599	*
27	669299	*
28	659485	*
29	668820	*
30	665577	*
31	657745	*
32	666907	*
33	650504	*
34	649925	*
35	650883	*
36	648676	*
37	649300	*
38	648489	*
39	649587	*



40	645201	*
SPECjbb2005	(from 20 to 40)	658769 SPECjbb2005 bops
SPEC license # 9019		Tested by: Cisco Systems
		Test date: Mar 28, 2011

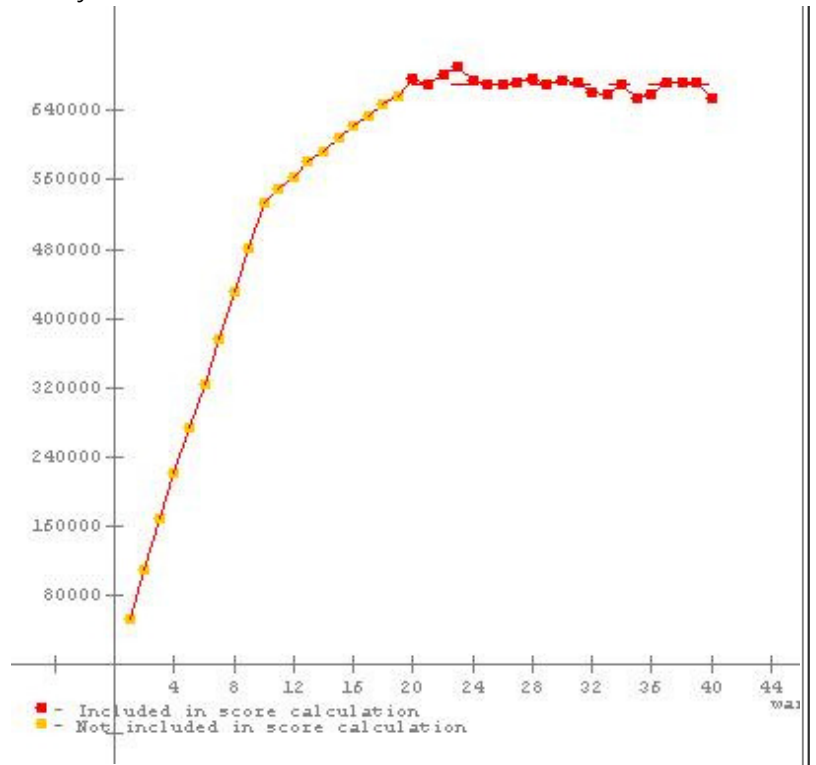
JVM 2 Scores:

No errors. Valid run.

Warehouses	SPECjbb2005 bops	Incl. in metric
1	54119	
2	109164	
3	168473	
4	221379	
5	272902	
6	323709	
7	377213	
8	429970	
9	481399	
10	532678	
11	550561	
12	563569	
13	580706	
14	592590	
15	607904	
16	621469	
17	634358	
18	647314	
19	656207	
20	677776	*
21	670342	*
22	682131	*
23	691609	*
24	674496	*
25	671026	*
26	670740	*

27	671797	*
28	676787	*
29	670251	*
30	673716	*
31	672499	*
32	661924	*
33	657813	*
34	670111	*
35	655066	*
36	659105	*
37	673172	*
38	672743	*
39	673044	*
40	654641	*
SPECjbb2005	(from 20 to 40)	670514 SPECjbb2005 bops

SPECjbb



SPEC license # 9019	Tested by: Cisco Systems	Test date: Mar 28, 2011
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SPECjbb2005 Version: [SPECjbb2005 1.07, March 15, 2006]
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