

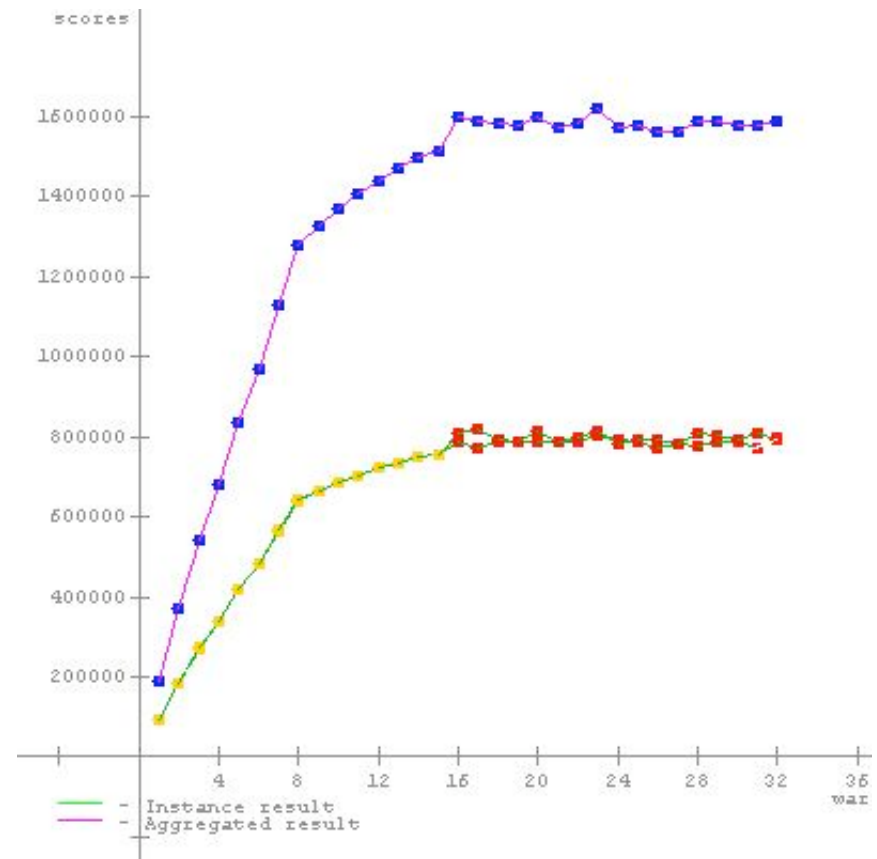
SPECjbb2005

SPECjbb2005 bops = 1584567, SPECjbb2005 bops/JVM = 792284

Cisco Systems Cisco UCS C220 M3 (Intel Xeon E5-2690, 2.9GHz)

Oracle Corporation Oracle Corporation Oracle Java HotSpot(TM) 64-bit Server VM on Windows, version 1.6.0_29

JVM run	JVM Scores
1	785633
2	798934
SPECjbb2005 bops = 1584567, SPECjbb2005 bops/JVM = 792284	



Hardware	
Hardware Vendor	Cisco Systems
Vendor URL	http://www.cisco.com
Model	Cisco UCS C220 M3 (Intel Xeon E5-2690, 2.9GHz)
Processor	Intel Xeon E5-2690 (Intel Turbo Boost Technology)

Software	
Software Vendor	Oracle Corporation
Vendor URL	http://www.oracle.com
JVM Version	Oracle Corporation Oracle Java HotSpot(TM) 64-bit Server VM on Windows, version 1.6.0_29
	start /realtime /node [0,1] /affinity FFFF -

MHz	2900
# of Chips	2
# of Cores	16
# of Cores/Chip	8
HW Threading Enabled?	yes
Procs Avail to Java	16
Memory (MB)	131072
Memory Details	128GB (16 x 8GB 2Rx4 PC3-12800R, ECC, running 1600MHz)
Primary cache	32KB I+32KB D on chip per core
Secondary cache	256KB(I+D) on chip per core
Other cache	20MB (I+D) on chip per chip
Filesystem	NTFS
Disks	2 x 300GB SAS
Other hardware	Cisco UCS RACK Server C220 M3

JVM Command Line	server -showversion -Xmx29g -Xms29g -Xmn27g -XX:SurvivorRatio=60 -XX:TargetSurvivorRatio=90 -XX:ParallelGCThreads=16 -XX:AllocatePrefetchDistance=256 -XX:AllocatePrefetchLines=4 -XX:LoopUnrollLimit=45 -XX:InitialTenuringThreshold=12 -XX:MaxTenuringThreshold=15 -XX:InlineSmallCode=3900 -XX:MaxInlineSize=270 -XX:FreqInlineSize=2500 -XX:+AggressiveOpts -XX:+UseLargePages -XX:+UseParallelOldGC -XX:+UseCompressedStrings -XX:-UseAdaptiveSizePolicy
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:\JAVA\jre1.6_29\lib\alt-string.jar; c:\JAVA\jre1.6_29\lib\alt-rt.jar; c:\JAVA\jre1.6_29\lib\resources.jar; c:\JAVA\jre1.6_29\lib\rt.jar; c:\JAVA\jre1.6_29\lib\sunrsasign.jar; c:\JAVA\jre1.6_29\lib\jsse.jar; c:\JAVA\jre1.6_29\lib\jce.jar; c:\JAVA\jre1.6_29\lib\charsets.jar; c:\JAVA\jre1.6_29\lib\modules\jdk.boot.jar; c:\JAVA\jre1.6_29\classes
OS Version	Microsoft Windows Server 2008 R2 Enterprise Edition SP1
Other software	

Test Information		AOT Compilation	
Tested by	Cisco Systems		
SPEC license #	9019		
Test location	San Jose, CA		
Test date	Jan 15, 2012		
H/w available	April-2012		
JVM available	Aug-2011		
OS available	Feb-2011		
Other s/w available	N/A		
		Tuning	
		Operating system tunings	
		• "Lock pages in memory" enabled for benchmark user. • Hardware Prefetcher disabled in BIOS • Adjacent Cache Line Prefetch disabled in BIOS • Each JVM instance was affinitized to a chip. • Parameter expected_peak_warehouse was set to 16	
		Notes	
		Command line options are described at: http://www.oracle.com/technetwork/java/javase/tech/vmoptions-jsp-140102.html	

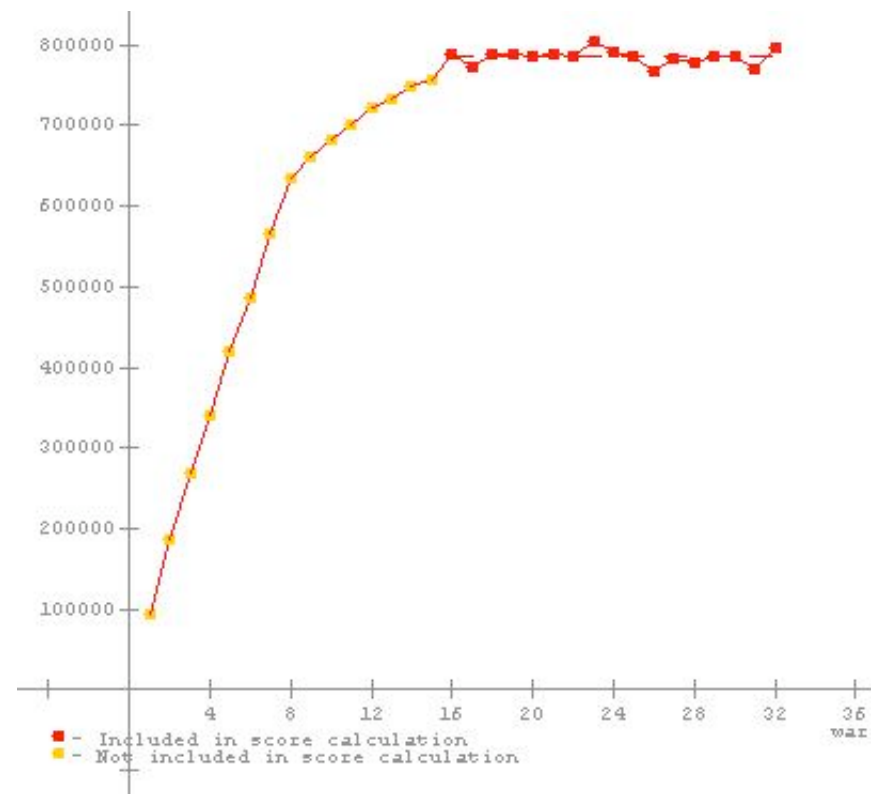
JVM 1 Scores:

No errors. Valid run.

Warehouses	SPECjbb2005 bops	Incl. in metric
1	93683	
2	185851	
3	270166	
4	339277	
5	420012	
6	485323	
7	565374	
8	635526	
9	662469	

SCORES

10	683829	
11	702023	
12	721302	
13	734157	
14	748098	
15	756480	
16	790087	*
17	772514	*
18	790006	*
19	789239	*
20	786764	*
21	789537	*
22	786591	*
23	805922	*
24	790643	*
25	786213	*
26	768903	*
27	782901	*
28	779205	*
29	785932	*
30	785783	*
31	769539	*
32	795976	*
SPECjbb2005	(from 16 to 32)	785633 SPECjbb2005 bops

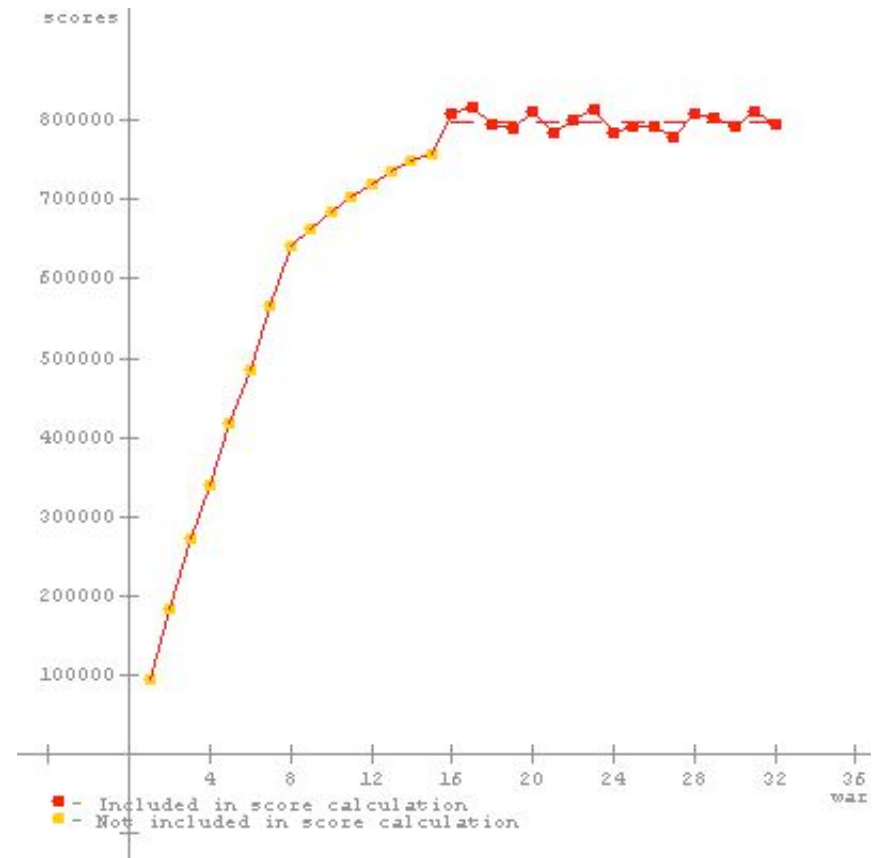


SPEC license # 9019	Tested by: Cisco Systems	Test date: Jan 15, 2012
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JVM 2 Scores:

No errors. Valid run.

Warehouses	SPECjbb2005 bops	Incl. in metric
1	94406	
2	184834	
3	271789	
4	340156	
5	418308	
6	485558	
7	566127	
8	642134	
9	664096	
10	684105	
11	702903	
12	720784	
13	735995	
14	748467	
15	756738	
16	808061	*
17	817791	*
18	794712	*
19	790116	*
20	812371	*
21	785096	*
22	800001	*
23	814128	*
24	784710	*
25	793087	*



26	792823	*
27	779768	*
28	808624	*
29	803351	*
30	792691	*
31	810032	*
32	794519	*
SPECjbb2005	(from 16 to 32)	798934 SPECjbb2005 bops
SPEC license # 9019		Tested by: Cisco Systems
		Test date: Jan 15, 2012

SPECjbb2005 Version: [SPECjbb2005 1.07, March 15, 2006]
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