

SPECjbb2005

**SPECjbb2005 bops = 931076, SPECjbb2005
bops/JVM = 155179**

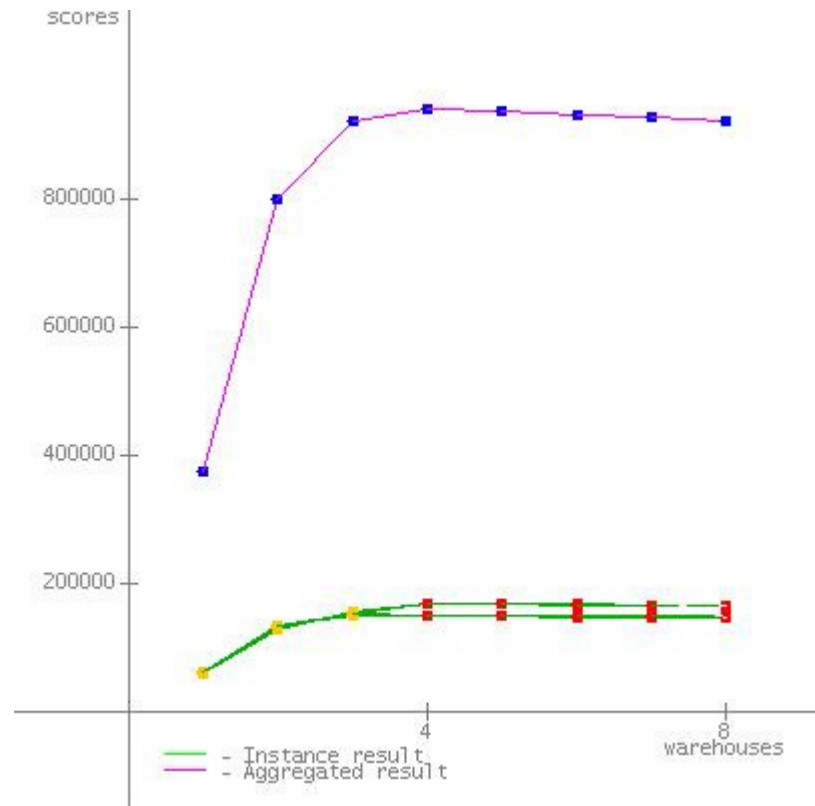
Cisco Systems Cisco UCS B200 M2

IBM Corporation IBM J9 VM (build 2.4, JRE 1.6.0 IBM J9 2.4

Windows Server 2008 amd64-64 jvmwa6460sr6-20090923_42924

(JIT enabled, AOT enabled)

JVM run	JVM Scores
1	149094
2	167193
3	167063
4	149785
5	148059
6	149882
SPECjbb2005 bops = 931076, SPECjbb2005 bops/JVM = 155179	



Hardware	
Hardware Vendor	Cisco Systems
Vendor URL	http://www.cisco.com
Model	Cisco UCS B200 M2
Processor	Intel Xeon X5680 (Intel Turbo Boost Technology up to 3.60GHz)
MHz	3333
# of Chips	2
# of Cores	12
# of Cores/Chip	6

Software	
Software Vendor	IBM Corporation
Vendor URL	http://www.ibm.com
JVM Version	IBM J9 VM (build 2.4, JRE 1.6.0 IBM J9 2.4.2008 amd64-64 jvmwa6460sr6-20090923_4 AOT enabled)
JVM Command Line	java /REALTIME /AFFINITY [0x000007,0x000070,0x000F00,0x007000,0 -Xaggressive -Xcompressedrefs -Xgcpolicy: Xmn1400m -Xms1875m -Xmx1875m -Xloc Xnolua -XtlhPrefetch -Xlp spec.jbb.JBBmai SPECjbb-UCS-B200-M2-X5680.props.prop
JVM Initial Heap Memory (MB)	1875
JVM Maximum Heap Memory (MB)	1875

HW Threading Enabled?	yes
Procs Avail to Java	24
Memory (MB)	49152
Memory Details	12 x 4GB PC3-10600R
Primary cache	32KB I + 32KB D on chip per core
Secondary cache	256KB(I+D) on chip, per core
Other cache	12MB (I+D) on chip per chip
Filesystem	NTFS
Disks	1 x 73GB 15K RPM SAS
Other hardware	Cisco UCS 6120XP 20 Port Fabric Interconnect, Cisco UCS 5100 Series Blade Server Chassis, Cisco UCS 2104XP Fabric Extender

JVM Address bits	64
JVM CLASSPATH	.\jbb.jar; .\check.jar;
JVM BOOTCLASSPATH	C:\Program Files\Java\jre\bin\compressedref C:\Program Files\Java\jre\lib\annotation.jar; C:\Program Files\Java\jre\lib\beans.jar; C:\Program Files\Java\jre\lib\java.util.jar; C:\Program Files\Java\jre\lib\jndi.jar; C:\Program Files\Java\jre\lib\logging.jar; C:\Program Files\Java\jre\lib\security.jar; C:\Program Files\Java\jre\lib\sql.jar; C:\Program Files\Java\jre\lib\ibmorb.jar; C:\Program Files\Java\jre\lib\ibmorbapi.jar; C:\Program Files\Java\jre\lib\ibmcfw.jar; C:\Program Files\Java\jre\lib\rt.jar; C:\Program Files\Java\jre\lib\charsets.jar; C:\Program Files\Java\jre\lib\resources.jar; C:\Program Files\Java\jre\lib\ibmpkcs.jar; C:\Program Files\Java\jre\lib\ibmcertpathfw C:\Program Files\Java\jre\lib\ibmjgssfw.jar; C:\Program Files\Java\jre\lib\ibmjssefw.jar; C:\Program Files\Java\jre\lib\ibmsaslfw.jar; C:\Program Files\Java\jre\lib\ibmjcefww.jar; C:\Program Files\Java\jre\lib\ibmjgssprovide C:\Program Files\Java\jre\lib\ibmjsseprovide C:\Program Files\Java\jre\lib\ibmcertpathpro C:\Program Files\Java\jre\lib\ibmxmlcrypto. C:\Program Files\Java\jre\lib\management-a C:\Program Files\Java\jre\lib\xml.jar; C:\Program Files\Java\jre\lib\jlm.jar; C:\Program Files\Java\jre\lib\javascript.jar
OS Version	Microsoft Windows Server 2008 Enterprise
Other software	None

Test Information	
Tested by	Cisco Systems
SPEC license #	9019
Test location	San Jose, CA
Test date	Mar 18, 2010
H/w available	April-2010
JVM available	Nov-2009
OS available	Feb-2008
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. • Turned off "DCU IP Prefetch" in BIOS. • Turned off "DCU Streamer Prefetch" in BIOS. • Turned off "DCU Reuse Optimization" in BIOS. • "Lock pages in memory" enabled for benchmark user. • Each JVM instance was affinity-tized to the cores of a chip. 	
Notes	
Command line options are described at:	

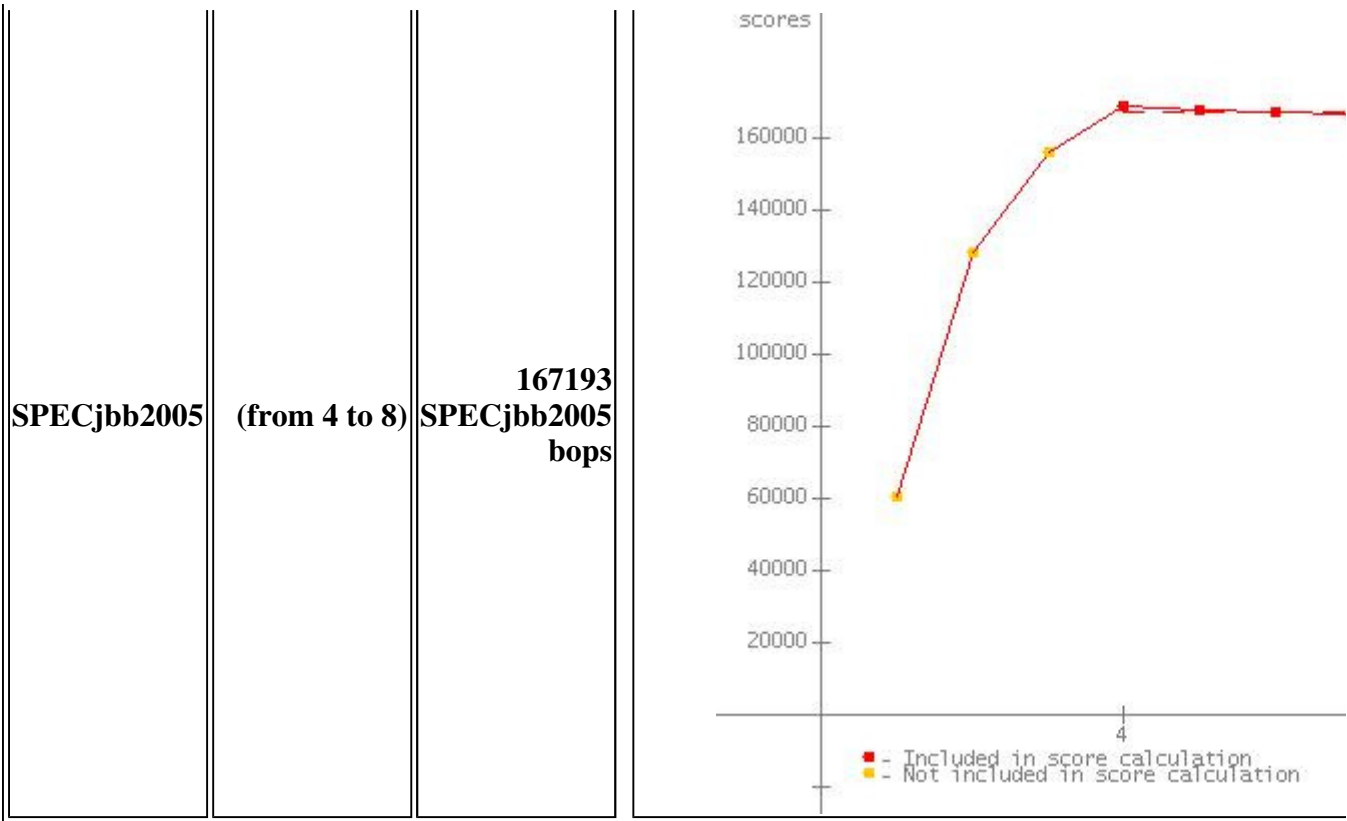
JVM 1 Scores:

Warehouses	SPECjbb2005 bops	Incl. in metric
1	60882	
2	136001	
3	153958	
4	151099	*
5	149877	*
6	149299	*
7	147904	*
8	147291	*
SPECjbb2005	(from 4 to 8)	149094 SPECjbb2005 bops

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JVM 2 Scores:

Warehouses	SPECjbb2005 bops	Incl. in metric
1	60552	
2	128475	
3	156246	
4	169125	*
5	167797	*
6	167335	*
7	166601	*
8	165108	*



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JVM 3 Scores:

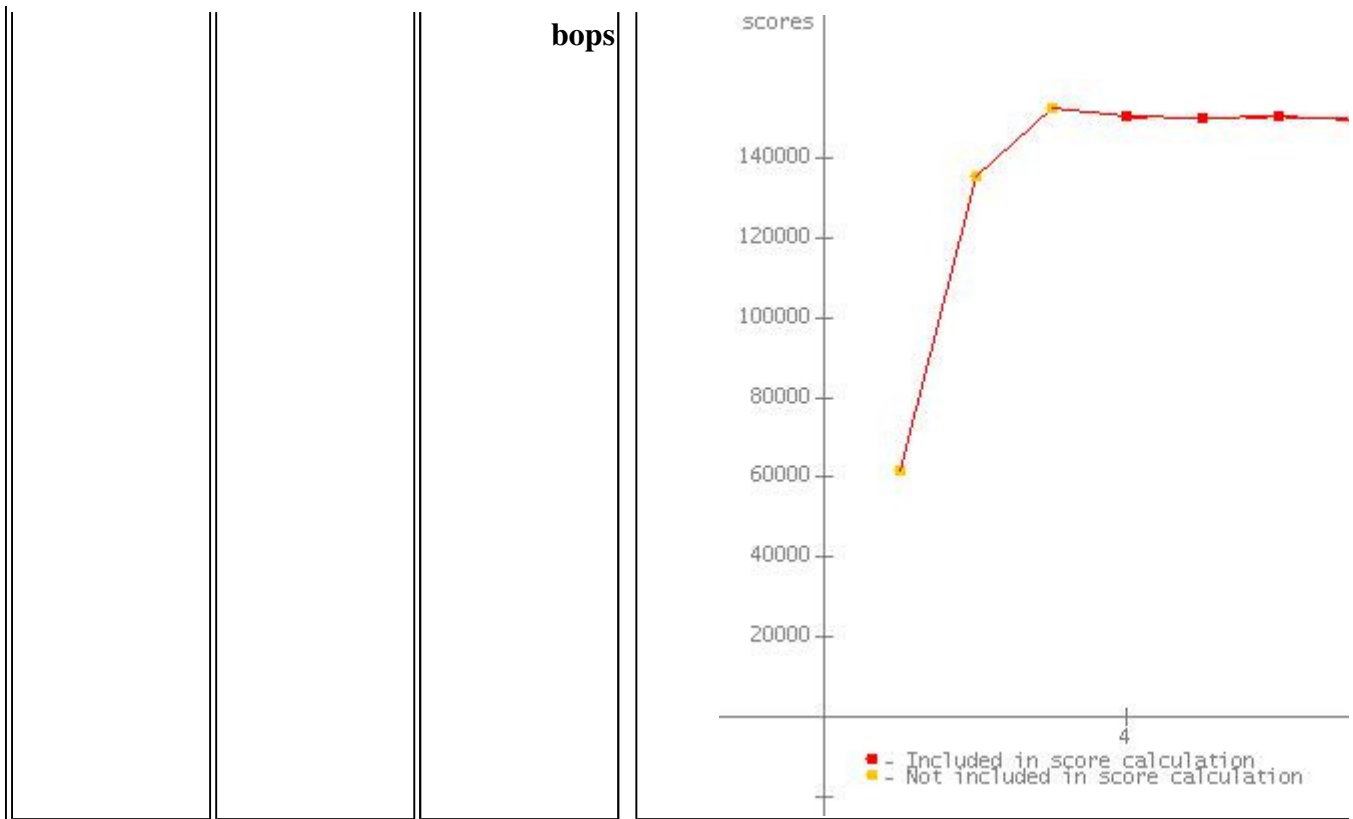
Warehouses	SPECjbb2005 bops	Incl. in metric
1	62727	
2	129956	
3	154038	
4	168740	*
5	168652	*
6	166417	*
7	165827	*
8	165680	*
SPECjbb2005	(from 4 to 8)	167063 SPECjbb2005 bops

Warehouse	Score	Included in Calculation
1	62727	No
2	129956	Yes
3	154038	Yes
4	168740	Yes
5	168652	Yes
6	166417	Yes
7	165827	Yes
8	165680	Yes

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JVM 4 Scores:

Warehouses	SPECjbb2005 bops	Incl. in metric
1	61937	
2	135685	
3	152672	
4	150425	*
5	150147	*
6	150342	*
7	149291	*
8	148722	*
SPECjbb2005	(from 4 to 8)	149785 SPECjbb2005



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JVM 5 Scores:

Warehouses	SPECjbb2005 bops	Incl. in metric
1	64233	
2	135265	
3	151609	
4	148939	*
5	148964	*
6	148095	*
7	147608	*
8	146686	*
SPECjbb2005	(from 4 to 8)	148059 SPECjbb2005 bops

scores

140000

120000

100000

80000

60000

40000

20000

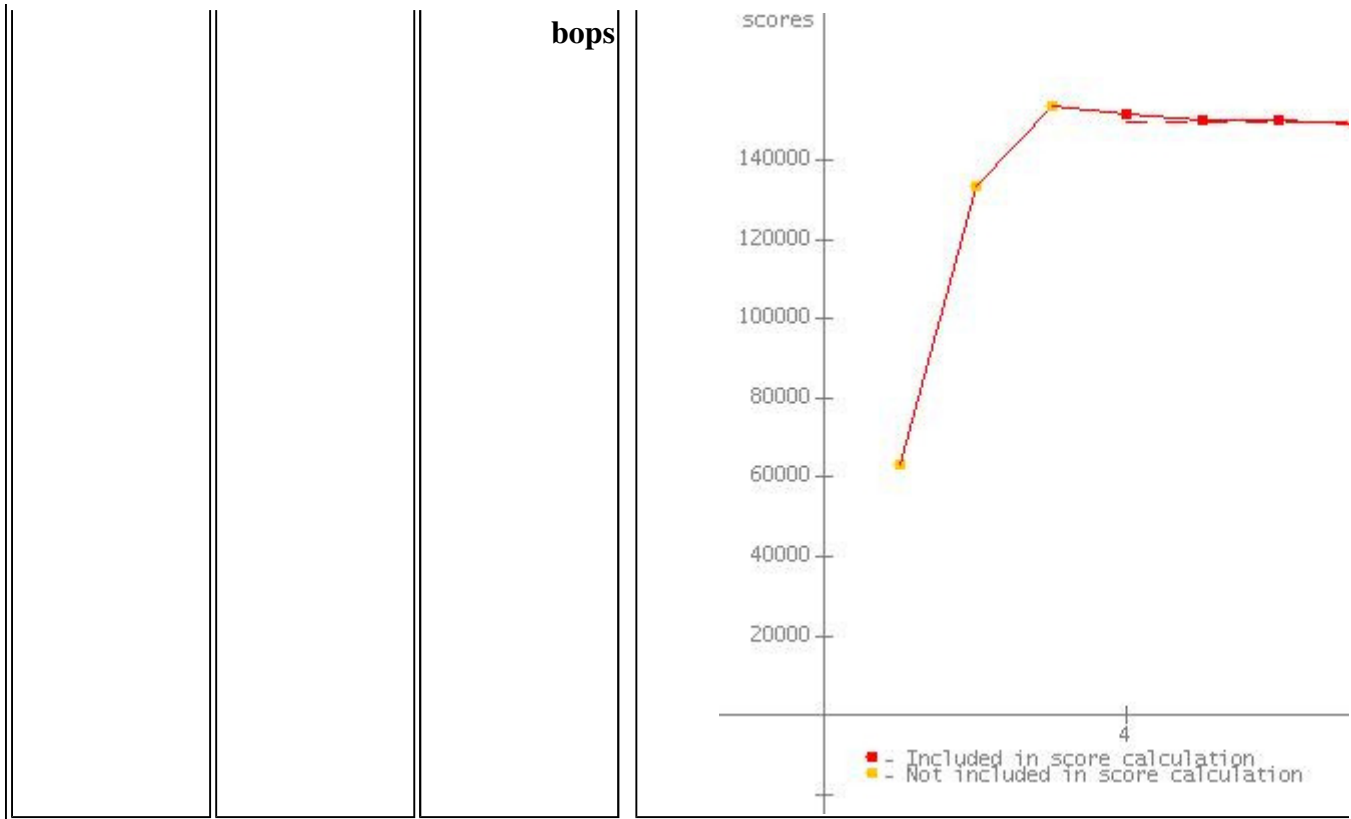
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■ - Included in score calculation
■ - Not included in score calculation

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JVM 6 Scores:

Warehouses	SPECjbb2005 bops	Incl. in metric
1	63214	
2	133444	
3	153904	
4	151640	*
5	150285	*
6	150057	*
7	149129	*
8	148299	*
SPECjbb2005	(from 4 to 8)	149882 SPECjbb2005



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