



SPEC® CINT2006 Result

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Huawei

Huawei RH5885 V3 (Intel Xeon E7-4809 v2)

CPU2006 license: 3175

Test sponsor: Huawei

Tested by: Huawei

SPECint®_rate2006 = 10

SPECint_rate_base2006 = NC

Test date: May-2014

Hardware Availability: Feb-2014

Software Availability: Nov-2013

SPEC has determined that this result is not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter has notified SPEC that the system was run with a BIOS which included a version of the Intel MRC (Memory Reference Code) that is not supported by Huawei or Intel.

Copies	
400.perlbench	
401.bzip2	
403.gcc	
429.mcf	
445.gobmk	
456.hmmer	
458.sjeng	
462.libquantum	
464.h264ref	
471.omnetpp	
473.astar	
483.xalancbmk	

	Hardware	Software
CPU Name:	Intel Xeon E7-4809 v2	Operating System: Red Hat Enterprise Linux Server release 6.5 (Santiago) 2.6.32-431.el6.x86_64
CPU Characteristics:	1900	Compiler: C/C++: Version 14.0.0.080 of Intel C++ Studio XE for Linux
CPU MHz:	Integrated	Auto Parallel: No
FPU:	24 cores, 4 chips, 6 cores/chip, 2 threads/core	File System: ext4
CPU(s) enabled:	2,4 chips	System State: Run level 3 (multi-user)
CPU(s) orderable:	32 KB I + 32 KB D on chip per core	Base Pointers: 32-bit
Primary Cache:	256 KB I+D on chip per core	Peak Pointers: 32/64-bit
Secondary Cache:	12 MB I+D on chip per chip	
L3 Cache:	None	
Other Cache:		

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Memory:	256 GB (16 x 16 GB 2Rx4 PC3-12800R-11, ECC)	Other Software:	Macmillan SmartHeap V10.0
Disk Subsystem:	2 x 600 GB SAS, 10K RPM		
Other Hardware:	None		

Results Table

Benchmark	Base						Peak					
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio
400.perlbench	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
401.bzip2	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
403.gcc	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
429.mcf	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
445.gobmk	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
456.hmmer	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
458.sjeng	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
462.libquantum	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
464.h264ref	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
471.omnetpp	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
473.astar	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC
483.xalancbmk	48	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

A mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"



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Platform Notes

BIOS configuration:

Set Power Efficiency Mode to Performance

Set Lock_step to disabled

Baseboard Management Controller used to adjust the fan speed to 100%

Sysinfo program /spec/config/sysinfo_rev63

\$Rev: 6818 \$ \$Date:: 2012-07-17 ## e6d1025 2650a6e4d596a3cee98f191

running on RH5885V3 Fri May 30 21:11:37 2014

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:

<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

From /proc/cpuinfo

model name : Intel(R) Xeon Processor E7-4809 v2 @ 1.90GHz

4 "physical id"s (chips)

48 "processors"

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

cpu cores :

siblings :

physical cores 0 1 2 3 4 5

physical 1: cores 0 1 2 3 4 5

physical 2: cores 0 1 2 3 4 5

physical 3: cores 0 1 2 3 4 5

cache size 12288 KB

From /proc/meminfo

264358436 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

/usr/bin/lsb_release -d

Red Hat Enterprise Linux Server release 6.5 (Santiago)

From /etc/*release* /etc/*version*

redhat-release: Red Hat Enterprise Linux Server release 6.5 (Santiago)

system-release: Red Hat Enterprise Linux Server release 6.5 (Santiago)

system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:

Continued on next page



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Platform Notes (Continued)

Linux RH5885V3 2.6.32-431.el6.x86_64 #1 SMP Tue Nov 10 22:19:54 EST 2013
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 May 30 20:32

SPEC is set to: /spec
Filesystem Type Size Used Avail Use% Mounted on
/dev/sda5 ext4 516G 13G 400G 3% /

Additional information from dmidecode:
BIOS American Megatrends Inc. BLISV015 03/7/2014
Memory:
16x 16 GB
16x Hynix HMT42GR7AFR4C-PB 256 MB 1333 MHz 2 rank
32x NO DIMM NO DIMM

(End of data from sysinfo program)

Regarding the sysinfo display about the memory installed, the correct amount of memory is 256 GB and the dmidecode description should have one line reading as:
16x Hynix HMT42GR7AFR4C-PB 16 GB 1333 MHz 2 rank

General Notes

Environment variables set by runspec before the start of the run:
LD_LIBRARY_PATH = "/spec/libs/32:/spec/libs/64:/spec/sh"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB
RedHat EL 6.4

Transparent Huge Pages enabled with:

echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled

File system page cache cleared with:

echo 1 > /proc/sys/vm/drop_caches

runspec command invoked through numactl i.e.:

numactl --interleave=all runspec <etc>



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Base Compiler Invocation

C benchmarks:

icc -m32

C++ benchmarks:

icpc -m32

Base Portability Flags

400.perlbench: -DSPEC_CPU_L1 -fno-ux IA32

462.libquantum: -DSPEC_CPU_L1 -fno-ux IA32

483.xalancbmk: -DSPEC_CPU_LIN

Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prefc-div -opt-prefetch -opt-mem-layout-trans=3

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prefc-div -opt-prefetch -opt-mem-layout-trans=3
-Wl,-z,m -ldefs -Lsh -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m32

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Peak Compiler Invocation (Continued)

400.perlbench: icc -m64

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

C++ benchmarks:
icpc -m32

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64

401.bzip2: -DSPEC_CPU_LP64

456.hmmer: -DSPEC_CPU_LP64

458.sjeng: -DSPEC_CPU_LP64

462.libquantum: -DSPEC_CPU_LINUX

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4_2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-auto-ilp32

401.bzip2: -xSSE4_2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-opt-prefetch -auto-ilp32 -ansi-alias

403.gcc: basepeak = yes

429.mcf: basepeak = yes

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Peak Optimization Flags (Continued)

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
-ansi-alias -opt-mem-layout=cons=3

456.hmmer: -xSSE4.2 -ipo -O3 -no-pre-div -unroll12 -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-pre-div(pass 2) -prof-use(pass 2)
-unroll14 -auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-pre-div(pass 2) -prof-use(pass 2)
-unroll12 -ansi-alias

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-pre-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs
-L/sh -fmartheap

473.astar: basepeak = yes

485.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

473.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic14.0-official-linux64.20140128.html>
<http://www.spec.org/cpu2006/flags/Huawei-Platform-Settings-V1.0-IVB-RevG.html>



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You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic14.0-official-linux64.20140128.xml>
<http://www.spec.org/cpu2006/flags/Huawei-Platform-Settings-V1.0-RevG.xml>

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For other inquiries, please contact webmaster@spec.org.

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