



CINT2000 Result

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Sun Microsystems
Sun Fire X4200

SPECint_rate2000 = 70.0
SPECint_rate_base2000 = 64.8

SPEC license #: 6 Tested by: Sun Microsystems, Santa Clara Test date: May-2006 Hardware Avail: Oct-2005 Software Avail: Apr-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	117	55.4	4	117	55.4
175.vpr	4	120	54.1	4	117	55.7
176.gcc	4	69.7	73.2	4	69.1	73.8
181.mcf	4	213	39.2	4	171	49.0
186.crafty	4	70.4	65.9	4	63.6	73.0
197.parser	4	132	63.4	4	131	63.6
252.eon	4	70.5	85.5	4	54.5	111
253.perlbnk	4	122	68.7	4	122	68.7
254.gap	4	73.4	69.5	4	73.4	69.5
255.vortex	4	87.0	101	4	77.5	114
256.bzip2	4	131	53.2	4	129	53.9
300.twolf	4	203	68.7	4	170	81.8

Hardware

CPU: AMD Opteron (TM) 275
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 (order by # of chips)
 Parallel: No
 Primary Cache: 64KBI + 64KBD (on chip) per core
 Secondary Cache: 1024KB (I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16GB (8x2GB, PC3200 CL3 DDR ECC Regd. SDRAM)
 Disk Subsystem: SAS,36GB,10K RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 SP1 (64bit)
 Compiler: Intel C++ 8.0 build 20040415Z for IA32
 Microsoft Visual Studio .NET 7.0.9466 (libraries)
 MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: default

Notes/Tuning Information

shlw32M.lib is the SmartHeap library V7.0 from MicroQuill www.microquill.com

+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

Portability:

176.gcc: -Dalloca=_alloca /F10000000

186.crafty: -DNT_i386

253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT

254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

Baseline C: -fast -arch:SSE2 -Oi- +FDO

Baseline C++: -fast -arch:SSE2 -GX -GR

Peak Tuning:

164.gzip: basepeak=yes

175.vpr: -fast -arch:SSE2 +FDO

-Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500

176.gcc: -fast -arch:SSE2 +FDO -Oi- -Qunroll3

181.mcf: -fast -QaxN +FDO

186.crafty: -fast -arch:SSE2 +FDO

197.parser: -arch:SSE2 +FDO -Oi- -Qipo

252.eon: -fast -arch:SSE2 +FDO -Qansi_alias

-Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500

253.perlbnk: basepeak=yes

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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE +FDO -Oi- shlw32M.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:   -fast -Qunroll2
300.twolf:   -fast -arch:SSE2 +FDO -Qunroll3 shlw32M.lib -Qansi_alias
```

Default BIOS Setting was used.

'start /b /wait /affinity' command is used to bind CPU(s) to processes

This result was measured on the Sun Fire X4100.

Sun Fire X4100 and Sun Fire X4200 are electronically equivalent.