



CINT2000 Result

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Supermicro

Supermicro H8DM8-2 Motherboard, Opteron 2218

SPECint_rate2000 = 76.6

SPECint_rate_base2000 = 66.5

SPEC license #01176 | Tested by: Supermicro | Test date: Sep-2006 | Hardware Avail: Aug-2006 | Software Avail: Apr-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	113	57.5	4	99.9	65.0
175.vpr	4	134	48.6	4	109	59.5
176.gcc	4	86.5	59.0	4	61.4	83.2
181.mcf	4	239	34.9	4	178	46.8
186.crafty	4	57.3	81.0	4	54.6	84.9
197.parser	4	123	68.1	4	121	68.8
252.eon	4	54.2	111	4	48.5	124
253.perlbnk	4	97.6	85.6	4	96.4	86.7
254.gap	4	74.4	68.6	4	74.4	68.6
255.vortex	4	83.6	105	4	67.0	132
256.bzip2	4	144	48.3	4	142	49.1
300.twolf	4	198	70.4	4	144	96.6

Hardware

CPU: AMD Opteron 2218
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1, 2
 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: 4x512MB, DDR2-667 CL3
 Disk Subsystem: IDE, 120 GB
 Other Hardware: None

Software

Operating System: Windows 2003 EE R2 SP1
 Compiler: Intel C++ 9.0 build 20050912Z 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: -O3 -Qipo -Op +FDO

Baseline C++: -O3 -Qipo -Qcxx-features +FDO

Peak Tuning:

164.gzip: -O3 -Qipo -QxW +FDO
 175.vpr: -O3 -Qipo -QxW +FDO
 -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
 176.gcc: -O3 -Qipo -QxW -Oi- -Qunroll13 +FDO
 181.mcf: -O3 -Qipo -QaxN +FDO
 186.crafty: -O3 -Qipo -QxW +FDO
 197.parser: -QxW +FDO -Oi- -Qipo
 252.eon: -O3 -Qipo -QxW +FDO -Qansi_alias
 -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
 253.perlbnk: -O3 -Qipo -QxW +FDO



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Notes/Tuning Information (Continued)

```
254.gap:      -O3 -Qipo -QxW +FDO
255.vortex:   -O3 -Qipo -arch:SSE +FDO -Oi- shlw32M.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:    -O3 -Qipo -Qunroll2
300.twolf:    -O3 -Qipo -QxW +FDO -Qunroll3 shlw32M.lib -Qansi_alias
The system under test can be built with a NVIDIA GeForce FX 5700 graphics card and
an ATX APE-300x power supply.
```