



CINT2000 Result

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Supermicro Motherboard H8DA8 rev2.01

SPECint_rate2000 = 58.7
SPECint_rate_base2000 = 51.0

SPEC license #01176 | Tested by: Supermicro | Test date: Feb-2006 | Hardware Avail: Mar-2005 | Software Avail: Sep-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	164	39.5	4	144	45.1
175.vpr	4	174	37.4	4	137	47.4
176.gcc	4	122	41.9	4	84.2	60.6
181.mcf	4	235	35.5	4	174	47.9
186.crafty	4	83.1	55.8	4	79.9	58.1
197.parser	4	161	51.8	4	161	52.0
252.eon	4	79.8	75.5	4	71.7	84.1
253.perlbnk	4	137	61.0	4	135	62.0
254.gap	4	92.3	55.3	4	92.3	55.3
255.vortex	4	111	79.7	4	88.1	100
256.bzip2	4	152	45.9	4	147	47.3
300.twolf	4	267	52.1	4	212	65.5

Hardware

CPU: AMD Opteron 265
 CPU MHz: 1800
 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
 Secondary Cache: 1024KB (I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x512MB, Registered, ECC, Buffered, Single Rank, DDR400 CL3
 Disk Subsystem: Seagate Barracuda 7200.9, 120 GB, 7200 RPM
 Other Hardware: None

Software

Operating System: Windows 2003 Enterprise Edition W/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

Tested by Supermicro Computer, Inc.

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- -Qunroll3 +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

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Notes/Tuning Information (Continued)

```
253.perlbnk: -O3 -Qipo -QxW +FDO
254.gap:      basepeak=yes
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 ATX 650 power supply.
The start /b /wait /affinity command is used to bind CPU(s) to processes.