CINT2000 Result

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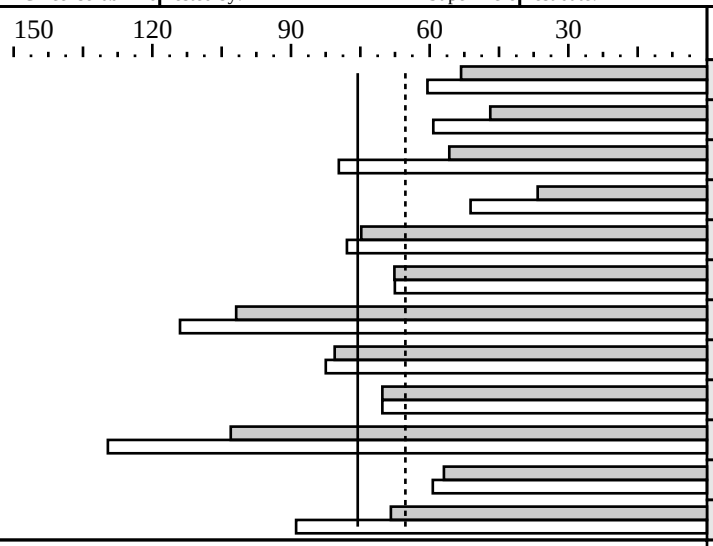
Supermicro

H8DA8 Motherboard (AMD Opteron (TM) 280)

SPECint_rate2000 = 75.6

SPECint_rate_base2000 = 65.3

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	122	53.2	4	107	60.5
175.vpr	4	139	46.9	4	110	59.2
176.gcc	4	91.5	55.8	4	64.1	79.7
181.mcf	4	228	36.6	4	163	51.2
186.crafty	4	62.0	74.8	4	59.6	77.9
197.parser	4	124	67.6	4	124	67.5
252.eon	4	59.2	102	4	52.9	114
253.perlbmk	4	104	80.5	4	101	82.5
254.gap	4	72.7	70.2	4	72.7	70.2
255.vortex	4	85.6	103	4	68.0	130
256.bzip2	4	122	56.9	4	117	59.3
300.twolf	4	204	68.4	4	157	88.9

Hardware

CPU:	AMD Opteron (TM) 280
CPU MHz:	2400
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:	8x2048MB, DDR400 CL3
Disk Subsystem:	Seagate Barracuda 7200.9 IDE, 120 GB, 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows server 2003 Enterprise Edition w/Service Pack1
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.perlbmk:  -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
253.perlbmk:  -O3 -Qipo -QxW +FDO
```

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Notes/Tuning Information (Continued)

```
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
Tested system can be used with a 420W (minimum) ATX power supply
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/8131/H8DA8.cfm
Other Configuration Notes The start /b /wait /affinity command is used to bind CPU(s) to processes.
```