# CINT2000 Result



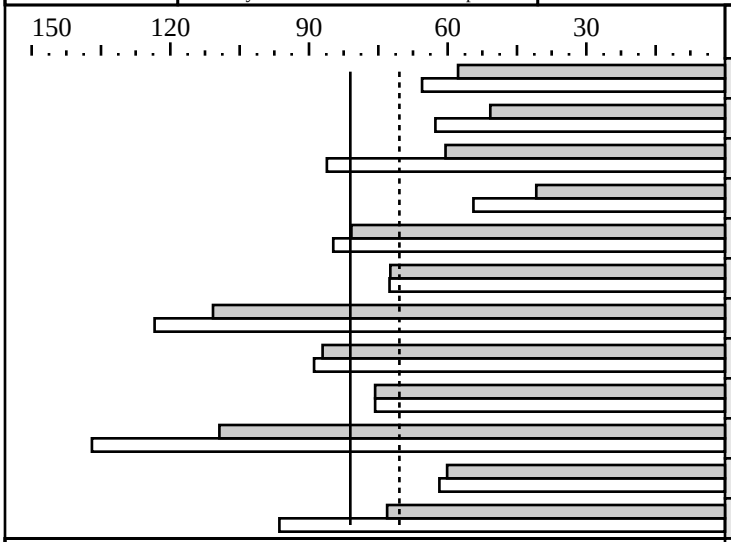
## Supermicro

H8DSR-8 Motherboard (AMD Opteron(TM) 285)

SPECint_rate2000 = 81.0

SPECint_rate_base2000 = 70.4

SPEC license #0 1176 | Tested by: Supermicro | Test date: Apr-2006 | Hardware Avail: Apr-2006 | Software Avail: Oct-2005




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 112 | 57.8 | 4 | 99.1 | 65.6 |
| 175.vpr | 4 | 128 | 50.8 | 4 | 104 | 62.7 |
| 176.gcc | 4 | 84.4 | 60.5 | 4 | 59.3 | 86.1 |
| 181.mcf | 4 | 205 | 40.8 | 4 | 153 | 54.4 |
| 186.crafty | 4 | 57.4 | 80.8 | 4 | 54.8 | 84.7 |
| 197.parser | 4 | 115 | 72.4 | 4 | 115 | 72.6 |
| 252.eon | 4 | 54.5 | 111 | 4 | 48.9 | 123 |
| 253.perlbmk | 4 | 95.9 | 87.1 | 4 | 94.0 | 88.9 |
| 254.gap | 4 | 67.4 | 75.7 | 4 | 67.4 | 75.7 |
| 255.vortex | 4 | 80.6 | 109 | 4 | 64.4 | 137 |
| 256.bzip2 | 4 | 116 | 60.1 | 4 | 113 | 61.8 |
| 300.twolf | 4 | 190 | 73.1 | 4 | 144 | 96.4 |

### Hardware

| | |
|---|---|
| CPU: | AMD Opteron(TM) 285 |
| 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: | 8 X Apacer 78.A1071.404, 2GB DDR-400 CL3 ECC Reg |
| Disk Subsystem: | 1 X IDE, Seagate ST3250823A 250GB |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows server 2003 Enterprise Edition 32-bit Version w/ Service Pack 1 |
| Compiler: | Intel C++ 9.0 build 20050912Z for IA32<br>Microsoft Visual Studio .NET 2003 7.0.9466 (libraries)<br>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
```

## 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
Tested systm was built with chassis SC813S+-500,
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/HT2000/H8DSR-8.cfm
To ensure system stability, a 600W (minimum) ATX power supply [8-pin (+12V) and (20+4)-pin are required] ) and 24-pin are required]
Other Configuration Notes
The start /b /wait /affinity command is used to bind CPU(s) to processes.
```