



CINT2000 Result

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Supermicro
H8DSL-HTi Motherboard (AMD Opteron (TM) 256)

SPECint2000 = **2016**
SPECint_base2000 = **1786**

SPEC license #01176 Tested by: Supermicro Test date: Apr-2006 Hardware Avail: Apr-2006 Software Avail: Oct-2005

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip | 1400 | 97.2 | 1440 | 85.2 | 1643 | |
| 175.vpr | 1400 | 111 | 1262 | 89.5 | 1565 | |
| 176.gcc | 1100 | 72.7 | 1513 | 51.0 | 2159 | |
| 181.mcf | 1800 | 151 | 1193 | 121 | 1483 | |
| 186.crafty | 1000 | 49.7 | 2013 | 47.6 | 2100 | |
| 197.parser | 1800 | 98.5 | 1827 | 99.0 | 1817 | |
| 252.eon | 1300 | 47.0 | 2764 | 42.4 | 3069 | |
| 253.perlbnk | 1800 | 82.9 | 2170 | 81.1 | 2219 | |
| 254.gap | 1100 | 55.9 | 1967 | 55.9 | 1967 | |
| 255.vortex | 1900 | 70.1 | 2709 | 65.7 | 2894 | |
| 256.bzip2 | 1500 | 98.4 | 1525 | 96.4 | 1556 | |
| 300.twolf | 3000 | 167 | 1798 | 126 | 2373 | |

Hardware

CPU: AMD Opteron (TM) 256
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4 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
 Microsoft Visual Studio .NET 2003 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
Tested system was built with chassis SC813T-500C,
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/HT1000/H8DSL-HTi.cfm
To ensure system stability, a 420W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
Other Configuration Notes
The start /b /wait /affinity command is used to bind CPU(s) to processes.
```