



CINT2000 Result

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Supermicro
H8DSP-8/i Motherboard (AMD Opteron (TM) 256)

SPECint2000 = **2012**
SPECint_base2000 = **1781**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	96.9	1445	85.3	1642	
175.vpr	1400	111	1263	89.4	1565	
176.gcc	1100	72.7	1513	51.0	2157	
181.mcf	1800	152	1184	121	1486	
186.crafty	1000	49.8	2006	47.5	2104	
197.parser	1800	98.4	1829	99.1	1817	
252.eon	1300	47.1	2759	42.2	3080	
253.perlbnk	1800	82.8	2174	81.2	2217	
254.gap	1100	57.4	1916	57.4	1916	
255.vortex	1900	70.3	2705	65.7	2893	
256.bzip2	1500	98.5	1524	96.6	1553	
300.twolf	3000	167	1797	126	2379	

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, 2
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 2048 MB, DDR400, Reg. ECC, CL3 @ CPU 1 DIMM 1A 1B 2A 2B
Disk Subsystem: 1 X IDE, Hitachi 80 GB
Other Hardware: None

Software

Operating System: Windows server 2003 Enterprise Edition 32-bit Version w/ Service Pack 1
Compiler: Intel C++ 9.0 Compiler 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- -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.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 SC816S-(R)700 ,
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/HT2000/H8DSP-8.cfm
To ensure system stability, a 600W (minimum) ATX power supply [8-pin (+12V) and 24-pin are required]
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