



CINT2000 Result

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Supermicro
H8DSR-8 Motherboard (AMD Opteron (TM) 256)

SPECint2000 = **2012**
SPECint_base2000 = **1782**

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	1000 2000 3000 4000			
164.gzip	1400	96.9	1444	85.2	1643	[Bar chart showing ratio 1643]			
175.vpr	1400	111	1260	89.5	1564	[Bar chart showing ratio 1564]			
176.gcc	1100	72.8	1511	51.0	2156	[Bar chart showing ratio 2156]			
181.mcf	1800	153	1176	122	1478	[Bar chart showing ratio 1478]			
186.crafty	1000	49.8	2010	47.6	2100	[Bar chart showing ratio 2100]			
197.parser	1800	98.5	1827	99.1	1816	[Bar chart showing ratio 1816]			
252.eon	1300	47.0	2764	42.2	3078	[Bar chart showing ratio 3078]			
253.perlbnk	1800	83.0	2170	81.3	2215	[Bar chart showing ratio 2215]			
254.gap	1100	56.6	1943	56.6	1943	[Bar chart showing ratio 1943]			
255.vortex	1900	70.0	2713	65.7	2893	[Bar chart showing ratio 2893]			
256.bzip2	1500	98.7	1520	96.5	1554	[Bar chart showing ratio 1554]			
300.twolf	3000	168	1790	126	2373	[Bar chart showing ratio 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- -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

Standard Performance Evaluation Corporation

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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 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.
```