



CINT2000 Result

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Supermicro
H8DSR-8 Motherboard (AMD Opteron (TM) 254)

SPECint2000 = **1896**
SPECint_base2000 = **1680**

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	104	1351	91.2	1535	
175.vpr	1400	117	1194	94.3	1485	
176.gcc	1100	77.6	1418	54.2	2029	
181.mcf	1800	155	1158	124	1449	
186.crafty	1000	53.4	1871	50.9	1966	
197.parser	1800	105	1721	105	1713	
252.eon	1300	50.5	2573	45.2	2874	
253.perlbnk	1800	88.5	2034	87.1	2066	
254.gap	1100	60.8	1811	60.8	1811	
255.vortex	1900	74.3	2557	69.6	2731	
256.bzip2	1500	104	1447	102	1475	
300.twolf	3000	178	1687	135	2215	

Hardware

CPU: AMD Opteron (TM) 254
CPU MHz: 2800
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)

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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.

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