



CINT2000 Result

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Supermicro
X6DH8-XG2 (3.40 GHz Xeon, 1MB L2 Cache)

SPECint_rate2000 = 26.5
SPECint_rate_base2000 = 24.2

SPEC license #01176 | Tested by: Supermicro Inc., San Jose, CA | Test date: Jun-2004 | Hardware Avail: Jun-2004 | Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	150	21.7	2	142	22.9
175.vpr	2	210	15.5	2	210	15.5
176.gcc	2	81.7	31.2	2	81.7	31.2
181.mcf	2	254	16.5	2	243	17.2
186.crafy	2	95.5	24.3	2	95.5	24.3
197.parser	2	170	24.6	2	170	24.6
252.eon	2	96.1	31.4	2	71.6	42.1
253.perlbnk	2	139	30.0	2	123	33.9
254.gap	2	86.4	29.6	2	86.4	29.6
255.vortex	2	106	41.7	2	106	41.7
256.bzip2	2	191	18.2	2	175	19.9
300.twolf	2	370	18.8	2	233	29.9

Hardware

CPU: Intel Xeon (3.4GHz, 800 MHz system bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology enabled)
CPU(s) orderable: 1, 2
Parallel: No
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 8 x 512GB ECC CL3 PC2 3200 DDRII SDRAM
Disk Subsystem: 1 x 73GB U320 SCSI, 10K RPM
Other Hardware:

Software

Operating System: Windows 2003 Enterprise Server
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)
Microsoft Visual Studio .NET (7.0.9466)
MicroQuill SmartHeap Library 7.1
File System: NTFS
System State: Default

Notes/Tuning Information

PORTABILITY FLAGS

176.gcc: -Dalloca=_alloca /F10000000
186.crafy: -DNT_i386
253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes
FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

BASE TUNING

C: -QxN -Qipo -O3 +FDO
C++: -QxN -Qipo -GX -GR

PEAK TUNING

164.gzip: -QxN -Qipo -O3 -Oa +FDO
175.vpr: basepeak=yes
176.gcc: basepeak=yes
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib
186.crafy: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib
197.parser: basepeak=yes
252.eon: -QxN -Qipo -O3 +FDO
253.perlbnk: -QxN -Qipo -O3 +FDO shlw32M.lib



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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo      -Oa -Qunroll1 +FDO shlW32M.lib
300.twolf:    -QxN -Qipo -O3      +FDO shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 7.1
              www.microquill.com
```