



# CINT2000 Result

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**Supermicro**  
X6DAR-8G (3.40 GHz Xeon, 1MB L3 Cache)

SPECint2000 = 1402  
SPECint\_base2000 = 1320

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	125	1117	125	1117	
175.vpr	1400	159	880	159	880	
176.gcc	1100	64.5	1704	64.5	1704	
181.mcf	1800	189	954	186	967	
186.crafty	1000	80.8	1238	80.8	1237	
197.parser	1800	145	1241	145	1241	
252.eon	1300	78.9	1648	66.3	1962	
253.perlbmk	1800	113	1594	104	1731	
254.gap	1100	63.2	1740	63.2	1740	
255.vortex	1900	80.6	2357	80.6	2357	
256.bzip2	1500	155	967	149	1005	
300.twolf	3000	275	1091	181	1659	

### Hardware

CPU: Intel Xeon (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 + 8KB(D) on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: 1024KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 4 x 512MB ECC CL2.5 PC 2700 DDR 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)  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafy: -DNT\_i386  
 253.perlbmk: -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.crafty: -QxN -Qipo -O3 -Oa +FDO shlw32M.lib  
 197.parser: basepeak=yes  
 252.eon: -QxN -Qipo -O3 +FDO  
 253.perlbmk: -QxN -Qipo -O3 +FDO shlw32M.lib



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**Supermicro**  
X6DAR-8G (3.40 GHz Xeon, 1MB L3 Cache)

SPECint2000 =	1402
SPECint_base2000 =	1320

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

## 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
```