



# CINT2000 Result

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**IBM Corporation**  
IBM System X 3800 (3.33 GHz Xeon 7140N)

SPECint2000 = --  
SPECint\_base2000 = 1697

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Dec-2006 | Hardware Avail: Oct-2006 | Software Avail: May-2006

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip    | 1400           | 124          | 1133       |         |       |  |
| 175.vpr     | 1400           | 118          | 1183       |         |       |  |
| 176.gcc     | 1100           | 56.1         | 1959       |         |       |  |
| 181.mcf     | 1800           | 78.4         | 2295       |         |       |  |
| 186.crafty  | 1000           | 79.4         | 1259       |         |       |  |
| 197.parser  | 1800           | 133          | 1351       |         |       |  |
| 252.eon     | 1300           | 57.2         | 2273       |         |       |  |
| 253.perlbmk | 1800           | 88.3         | 2037       |         |       |  |
| 254.gap     | 1100           | 63.6         | 1730       |         |       |  |
| 255.vortex  | 1900           | 61.0         | 3113       |         |       |  |
| 256.bzip2   | 1500           | 114          | 1317       |         |       |  |
| 300.twolf   | 3000           | 177          | 1697       |         |       |  |

### Hardware

CPU: Intel Xeon processor 7140N ( 3.33 GHz, 667 MHz bus)  
CPU MHz: 3333  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1, 2, 4 chips  
Parallel: No  
Primary Cache: 12 K I micro-ops + 16 KB D on chip per core  
Secondary Cache: 1 MB I+D on chip per core  
L3 Cache: 16 MB on chip per chip  
Other Cache: N/A  
Memory: 16 x 2048 MB ECC PC2-3200  
Disk Subsystem: 73GB SAS 15K RPM  
Other Hardware:

### Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)  
Compiler: Intel C++ Compiler 9.1 for 32-bit applications  
Build 20060323Z Package ID: W\_CC\_P\_9.1.020  
Microsoft Visual Studio 2005 (for libraries)  
SmartHeap Library Version 8.0 from <http://www.microquill.com/>  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -fast +FDO shlw32M-80.lib
Base tuning for C++ programs: -fast -Qcxx_features +FDO shlw32M-80.lib
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafy: -DNT_i386
252.eon: -DHAS_ERRLIST
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
```

### Bios Settings

Hardware Prefetch enabled  
Memory Array set to High-Performance Memory Array