



CINT2000 Result

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IBM Corporation
IBM xSeries 445 (3.0GHz, Intel Xeon MP)

SPECint_rate2000 = 107
SPECint_rate_base2000 = 102

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Jun-2004 | Hardware Avail: Feb-2004 | Software Avail: Mar-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	138	94.4	8	138	94.2
175.vpr	8	148	88.1	8	147	88.2
176.gcc	8	111	91.6	8	83.8	122
181.mcf	8	187	89.1	8	188	88.9
186.crafty	8	90.1	103	8	90.1	103
197.parser	8	145	115	8	146	115
252.eon	8	88.0	137	8	72.7	166
253.perlbnk	8	153	109	8	153	109
254.gap	8	254	40.1	8	253	40.4
255.vortex	8	104	170	8	103	171
256.bzip2	8	132	106	8	125	111
300.twolf	8	191	146	8	190	146

Hardware

CPU: Intel Xeon MP (3.0GHz, 400MHz bus)
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip
 CPU(s) orderable: 1,2,4,8
 Parallel: No
 Primary Cache: 12K micro-ops I + 8KBD on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: 4096KB(I+D) on chip
 Other Cache: 64 MB per 4 CPUs (chips)
 Memory: 4x1024MB PC1600
 Disk Subsystem: 2x36GB 10K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows 2003 Advanced Server (SP3)
 Compiler: Intel C++ Compiler 8.0 Build 20031211Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 File System: NTFS
 System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -QxN -Qipo -O3 +FDO ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
Portability flags:
 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
Peak tuning:
 164.gzip: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
 175.vpr: -QxN -Qipo -O3 +FDO ONESTEP=yes
 176.gcc: -QxN -Qipo -Oi- -O3 +FDO ONESTEP=yes
 181.mcf: -QxN -Qipo -O3 +FDO ONESTEP=yes
 186.crafty: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
 197.parser: -QxN -Qipo -O3 +FDO ONESTEP=yes
 252.eon: -QxN -Qipo -O3 +FDO ONESTEP=yes
 253.perlbnk: -Qipo -Oa -O3 +FDO ONESTEP=yes
 254.gap: -QxN -Qipo -O3 +FDO ONESTEP=yes
 255.vortex: -QxN -Qipo -O3 +FDO ONESTEP=yes
 256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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Notes/Tuning Information (Continued)

300.twolf: -QxN -Qipo -O3 +FDO ONESTEP=yes
BIOS Configuration Notes
Hyper Threading disabled