CINT2000 Result

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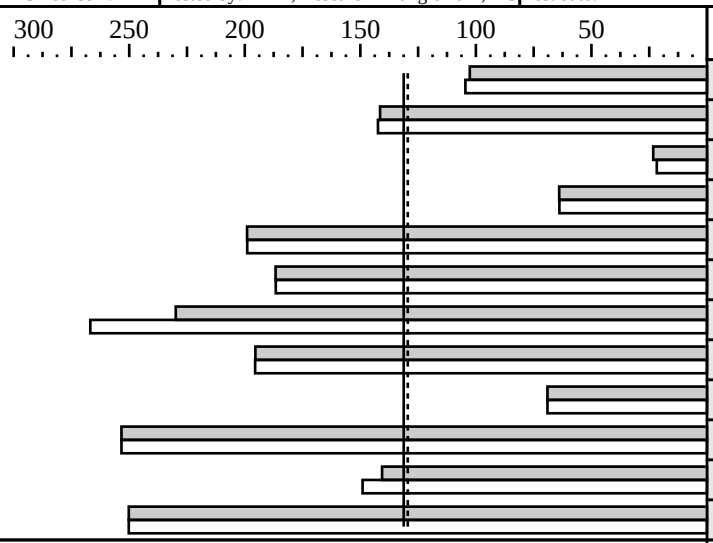
IBM
xSeries 445 (2.8 GHz Xeon MP)

SPECint_rate2000 = 131

SPECint_rate_base2000 = 129

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: Sep-2003 | Hardware Avail: Jul-2003 | Software Avail: Apr-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	253	103	16	249	105
175.vpr	16	184	141	16	183	142
176.gcc	16	877	23.3	16	940	21.7
181.mcf	16	522	64.0	16	523	63.9
186.crafty	16	93.3	199	16	93.3	199
197.parser	16	179	187	16	179	187
252.eon	16	105	230	16	90.4	267
253.perlbmk	16	171	195	16	171	196
254.gap	16	296	69.0	16	296	69.0
255.vortex	16	139	253	16	139	253
256.bzip2	16	198	141	16	187	149
300.twolf	16	223	250	16	223	250

Hardware

CPU:	Intel Xeon MP (400 MHz system bus)
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	2,4,8,16
Parallel:	No
Primary Cache:	12K(I) micro-ops + 8KB(D) on chip
Secondary Cache:	512KB(I+D) on chip
L3 Cache:	2048KB(I+D) on chip
Other Cache:	64MB per 4 CPUs
Memory:	16 x 1024MB DDR200
Disk Subsystem:	2 x 36GB SCSI
Other Hardware:	

Software

Operating System:	Windows 2003 Advanced Server Build 3790
Compiler:	Intel C++ Compiler 7.0 (20021018Z) Microsoft Visual C++ .NET (Ver. 2002)
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
BASE TUNING
  C:           -QxW -Qipo -O3 +FDO
  C++:         -QxW -Qipo -GX -GR
PEAK TUNING
  164.gzip:    -QxW -Qipo -Oa -O3 +FDO
  175.vpr:     -QxW -Qipo     -O3 +FDO
  176.gcc:     -QxW -Qipo     -O3 +FDO
  181.mcf:     -QxW -Qipo     -O3 +FDO
  186.crafty:  -QxW -Qipo     -O3 +FDO
  197.parser:  -QxW -Qipo     -O3 +FDO
  252.eon:     -QxW -Qipo     -O3 +FDO
  253.perlbmk: -QxW -Qipo     -O3 +FDO
  254.gap:     basepeak=yes
```

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Notes/Tuning Information (Continued)

```
255.vortex   basepeak=yes
256.bzip2:   -Qipo -Oa -Qunroll1 +FDO
300.twolf:   basepeak=yes
```