CINT2000 Result

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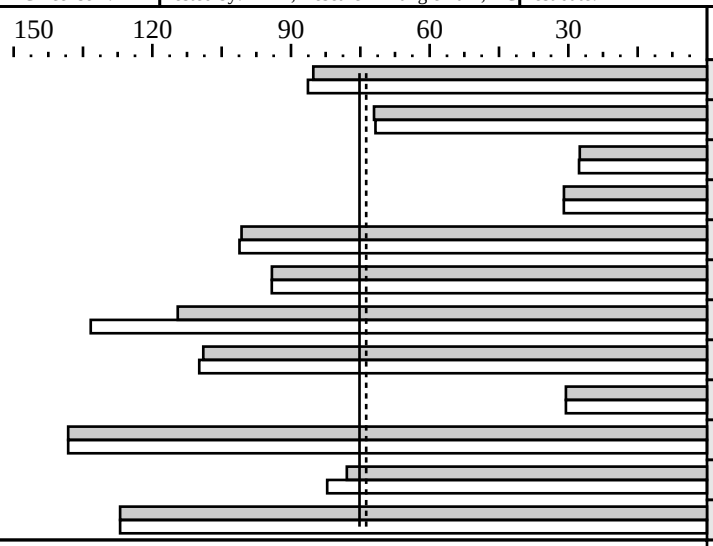
IBM
xSeries 445 (2.8 GHz Xeon MP)

SPECint_rate2000 = 75.2

SPECint_rate_base2000 = 73.7

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	153	85.2	8	150	86.3
175.vpr	8	180	72.0	8	181	71.7
176.gcc	8	371	27.5	8	369	27.7
181.mcf	8	540	30.9	8	539	31.0
186.crafty	8	92.2	101	8	91.8	101
197.parser	8	177	94.1	8	177	94.2
252.eon	8	105	115	8	90.5	133
253.perlbmk	8	153	109	8	152	110
254.gap	8	334	30.5	8	334	30.5
255.vortex	8	128	138	8	128	138
256.bzip2	8	179	77.9	8	169	82.2
300.twolf	8	219	127	8	219	127

Hardware

CPU:	Intel Xeon MP (400 MHz system bus)
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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:	8 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 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
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
  EXTRA LIBRARIES
```