



# CINT2000 Result

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**IBM**  
**2892-001 (2.0 GHz LV Xeon)**

SPECint\_rate2000 = **9.17**  
SPECint\_rate\_base2000 = **9.31**

SPEC license #: 11 | Tested by: IBM, Rochester, MN | Test date: Aug-2004 | Hardware Avail: Oct-2004 | Software Avail: Oct-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	585	11.1	4	768	8.45
175.vpr	4	1206	5.39	4	1203	5.40
176.gcc	4	492	10.4	4	488	10.5
181.mcf	4	1391	6.01	4	1390	6.01
186.crafty	4	494	9.39	4	525	8.84
197.parser	4	906	9.22	4	906	9.22
252.eon	4	450	13.4	4	407	14.8
253.perlbnk	4	850	9.83	4	842	9.92
254.gap	4	397	12.8	4	397	12.8
255.vortex	4	567	15.5	4	567	15.5
256.bzip2	4	880	7.91	4	853	8.16
300.twolf	4	2201	6.32	4	2201	6.32

### Hardware

CPU: Intel LV Xeon  
 400/200 Mhz System/Memory buses  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT technology enabled)  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2 x 512MB DDR200 Registered ECC  
 Disk Subsystem: 1 iSeries 2757-001 Disk IOA,  
 16 x 35.18GB 3516 15k RPM, unprotected.  
 Other Hardware: 2892 attached within  
 iSeries 9406-810, cpu 25F0-000

### Software

Operating System: Windows Server 2003 Standard Edition Build 3790  
 Compiler: Intel C++ Compiler 8.0 (20031017Z)  
 Microsoft Visual Studio .NET (7.0.9466)  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

### 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

### 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



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## Notes/Tuning Information (Continued)

```
252.eon:      -QxW -Qipo      -O3 +FDO
253.perlbnk:  -QxW -Qipo      -O3 +FDO
254.gap:      basepeak=yes
255.vortex   basepeak=yes
256.bzip2:    -Qipo -Oa -Qunroll1 +FDO
300.twolf:    basepeak=yes
```

### EXTRA LIBRARIES

This system is a fully contained Intel based processor board.  
It supports all non-PCI devices directly on the board e.g  
memory, keyboard, mouse, display.

It attaches to the system as another PCI device. The Windows  
OS is provided PCI device drivers to allow the system to use  
the PCI devices attached to the host iSeries system. The host  
OS then supports the use by Windows of the devices such as disks.

More information about the xSeries board in iSeries systems can  
be found at <http://www.ibm.com/servers/eserver/iseries/library>  
In particular, there is a Redbook available titled:  
"Microsoft Windows Server 2003 Integration with iSeries"  
that provides lots more detailed information.