



# CINT2000 Result

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

SPECint2000 = 766  
SPECint\_base2000 = 756

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	171	817	170	824	
175.vpr	1400	306	458	306	458	
176.gcc	1100	116	946	117	942	
181.mcf	1800	374	481	375	480	
186.crafty	1000	136	738	136	737	
197.parser	1800	251	718	251	718	
252.eon	1300	125	1040	109	1189	
253.perlbnk	1800	211	852	211	853	
254.gap	1100	108	1017	108	1017	
255.vortex	1900	138	1377	138	1377	
256.bzip2	1500	259	578	255	589	
300.twolf	3000	559	537	559	537	

### 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



# CINT2000 Result

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

SPECint2000 =	766
SPECint_base2000 =	756

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

## 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.