



# CINT2000 Result

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**Itaotec**  
Servidor Itaotec MX220 (3.4 GHz Intel Xeon)

SPECint\_rate2000 = **38.4**  
SPECint\_rate\_base2000 = **37.7**

SPEC license #: 2784 | Tested by: Itaotec | Test date: Sep-2005 | Hardware Avail: May-2005 | Software Avail: May-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	184	35.3	4	185	35.1
175.vpr	4	251	25.9	4	251	25.9
176.gcc	4	100	50.9	4	100	50.9
181.mcf	4	346	24.1	4	346	24.1
186.crafty	4	152	30.5	4	159	29.3
197.parser	4	220	38.0	4	220	38.0
252.eon	4	122	49.5	4	122	49.4
253.perlbnk	4	209	39.9	4	202	41.3
254.gap	4	118	43.3	4	118	43.3
255.vortex	4	146	60.5	4	146	60.3
256.bzip2	4	211	33.0	4	211	33.0
300.twolf	4	371	37.5	4	293	47.5

### Hardware

CPU: Intel Xeon (3.4 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4 x 2048 MB ECC DDR2 Single Rank  
Disk Subsystem: 80GB Sata 10k  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition  
Compiler: Intel C/C++ Compiler 8.1 for 32-bit applications Build 20050201Z  
Intel Fortran Compiler 8.1 for 32-bit application Build 20050201Z  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
Microquill SmartHeap Library v.7.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### GENERAL

ONESTEP=yes  
+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
186.crafty: -DNT\_i386  
252.eon: srcalt=stdcpp  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### BASE TUNING

C: -fast -QxP -Qansi\_alias +FDO  
C++: -QxP -Qipo -Qcxx\_features +FDO\*

### PEAK TUNING

164.gzip: -fast -QxP -Qansi\_alias -Oa +FDO  
175.vpr: basepeak=yes  
176.gcc: basepeak=yes  
181.mcf: basepeak=yes  
186.crafty: -fast -QxP -Oa +FDO shlw32M2.lib  
197.parser: basepeak=yes  
252.eon: -fast -QxP +FDO



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Itautec

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## Notes/Tuning Information (Continued)

```
253.perlbnk: -fast -QxP -Qansi_alias +FDO shlw32M2.lib
254.gap:      basepeak=yes
255.vortex   -fast -QxP +FDO
256.bzip2:   -fast -QxP -Qunroll11 -Oa +FDO
300.twolf:   -fast -QxP +FDO shlw32M2.lib
```

### EXTRA LIBRARIES

```
shlw32M2.lib: MicroQuill SmartHeap Library v.7.0
              www.microquill.com
```

### NOTES

\*+FDO does not include -QxP for PASS1 to enable cross-compilation.