



# CINT2000 Result

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## Itaotec

Servidor Itaotec MX221 (Intel Xeon processor 5110, 1.60GHz)

SPECint\_rate2000 = 70.7

SPECint\_rate\_base2000 = 69.0

SPEC license #: 2784 | Tested by: Itaotec | Test date: Jun-2006 | Hardware Avail: Jul-2006 | Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	144	45.2	4	144	45.2
175.vpr	4	125	51.9	4	125	51.9
176.gcc	4	63.5	80.4	4	63.5	80.4
181.mcf	4	118	70.7	4	118	70.7
186.crafty	4	67.6	68.6	4	67.7	68.5
197.parser	4	146	57.2	4	145	57.7
252.eon	4	80.6	74.8	4	62.4	96.7
253.perlbnk	4	98.2	85.0	4	98.2	85.0
254.gap	4	75.0	68.0	4	72.6	70.3
255.vortex	4	74.6	118	4	74.6	118
256.bzip2	4	136	51.2	4	136	51.3
300.twolf	4	164	84.9	4	164	84.9

### Hardware

CPU: Intel Xeon Dual Core processor 5110 (1067 MHz system bus)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 32K(I) + 32KB(D) on chip, per core  
Secondary Cache: 4096KB(I+D) on chip, shared  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4 x 2GB 667MHz ECC CL5 DDR2 FB-DIMM  
Disk Subsystem: 1 x 120GB serial ata 7200rpm  
Other Hardware: None

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition Service Pack 1 (32-bit)  
Compiler: Intel C++ Compiler 9.1 for 32-bit applications Build 20060519Z  
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= -prof\_gen PASS2= -prof\_use

### 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

### BASE TUNING

C: -fast -QxP +FDO shlw32m2.lib  
C++: -Qipo -Qcxx\_features +FDO shlw32m2.lib

### PEAK TUNING

164.gzip: -fast -QxP +FDO  
175.vpr: basepeak=yes  
176.gcc: basepeak=yes  
181.mcf: basepeak=yes  
186.crafty: -fast -Oa +FDO shlw32m2.lib  
197.parser: -fast -QxP +FDO  
252.eon: -fast +FDO  
253.perlbnk: basepeak=yes



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**Itautec**

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## Notes/Tuning Information (Continued)

```
254.gap:      -fast +FDO
255.vortex    basepeak=yes
256.bzip2:    -fast -Qunroll11 -Oa +FDO
300.twolf:    basepeak=yes
EXTRA LIBRARIES
: MicroQuill SmartHeap Library v.7.0
  www.microquill.com
```