



# CINT2000 Result

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## Itautec

Servidor Itautec MX221 (Intel Xeon processor E5310, 1.60 GHz)

SPECint\_rate2000 = 128

SPECint\_rate\_base2000 = 128

SPEC license #: 9001 | Tested by: Itautec | Test date: Feb-2007 | Hardware Avail: Feb-2007 | Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	8	146	88.7	8	146	88.7
175.vpr	8	147	88.1	8	147	88.1
176.gcc	8	66.6	153	8	66.6	153
181.mcf	8	194	86.2	8	194	86.2
186.crafty	8	68.1	136	8	68.1	136
197.parser	8	148	113	8	148	113
252.eon	8	62.8	192	8	62.8	192
253.perlbnk	8	99.9	167	8	99.9	167
254.gap	8	96.9	105	8	96.9	105
255.vortex	8	78.4	225	8	78.4	225
256.bzip2	8	141	98.6	8	141	98.6
300.twolf	8	165	169	8	165	169

### Hardware

CPU: Intel Xeon processor E5310 (1.60 GHz, 2x4MB L2, 1066 MHz system bus)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 8 MB I+D on chip per chip (4 MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x1GB DDR2-RAM PC2-5300F (CAS 5-5-5)  
Disk Subsystem: 1 x 146GB SCSI 10000RPM  
Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition + SP1 (32-bit)  
Compiler: Intel C++ Compiler 9.1  
Build 20060519Z (for 32-bit applications),  
Microsoft Visual Studio .NET 2003 7.1.3088 (for libraries)  
Microquill SmartHeap Library v.8.0 for SMP  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### GENERAL

Basepeak=yes is used for all programs  
+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_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 flags

for C programs: -fast +FDO sh1SMPMt.lib  
for C++ programs: -fast -Qcxx\_features +FDO sh1SMPMt.lib

### EXTRA LIBRARIES

Microquill SmartHeap Library v.8.0 for SMP  
<http://www.microquill.com>

The Servidor Itautec MX221 and the Servidor Itautec MX201 are electronically equivalent.