



# CFP2000 Result

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## Itautec

Servidor Itautec ZX400 (Intel Xeon 7140M processor)

SPECfp\_rate2000 = 104

SPECfp\_rate\_base2000 = 104

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	16	254	117	16	254	117
171.swim	16	1065	54.0	16	1065	54.0
172.mgrid	16	634	52.7	16	634	52.7
173.applu	16	702	55.6	16	702	55.6
177.mesa	16	209	124	16	209	124
178.galgel	16	149	362	16	149	362
179.art	16	99.5	485	16	99.5	485
183.quake	16	318	75.8	16	318	75.8
187.facerec	16	254	139	16	254	139
188.amp	16	315	130	16	315	130
189.lucas	16	687	54.0	16	687	54.0
191.fma3d	16	579	67.3	16	579	67.3
200.sixtrack	16	273	74.8	16	273	74.8
301.apsi	16	393	123	16	393	123

### Hardware

CPU: Intel Xeon 7140M processor (3.40 GHz, 2x1MB L2, 16MB L3, 800 MHz system bus)  
CPU MHz: 3400  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1,2,3,4  
Parallel: No  
Primary Cache: 12k micro-ops I + 16KBD on chip, per core  
Secondary Cache: 1024KB(I+D) on chip, per core  
L3 Cache: 16MB on chip, per chip  
Other Cache: N/A  
Memory: 16x1GB DDR2-RAM PC2-3200R (CAS 3-3-3)  
Disk Subsystem: 1 x 36GB SCSI 10000 RPM  
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),  
Intel Fortran Compiler 9.1  
Build 20060519Z (for 32-bit applications),  
Microsoft Visual Studio .NET 7.0.9466 (for libraries)  
MicroQuill SmartHeap for SMP Library 8.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

178.galgel: -FI /F32000000

### GENERAL

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

### Base tuning flags

for Fortran programs: -fast -Qansi\_alias +FDO

for C programs: -fast +FDO shlSMPMt.lib

### EXTRA LIBRARIES

MicroQuill SmartHeap for SMP Library 8.0 available from  
<http://www.microquill.com/>