



CFP2000 Result

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IBM Corporation

IBM eServer BladeCenter HS20 (2.8 GHz Xeon, 2MB L2 Cache)

SPECfp_rate2000 = 18.4

SPECfp_rate_base2000 = 18.1

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Sep-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise | 1 | 71.7 | 25.9 | 1 | 71.7 | 25.9 |
| 171.swim | 1 | 137 | 26.3 | 1 | 136 | 26.4 |
| 172.mgrid | 1 | 145 | 14.4 | 1 | 145 | 14.4 |
| 173.applu | 1 | 160 | 15.2 | 1 | 158 | 15.4 |
| 177.mesa | 1 | 114 | 14.2 | 1 | 114 | 14.2 |
| 178.galgel | 1 | 99.6 | 33.8 | 1 | 99.6 | 33.8 |
| 179.art | 1 | 69.6 | 43.3 | 1 | 69.6 | 43.3 |
| 183.quake | 1 | 65.0 | 23.2 | 1 | 53.6 | 28.1 |
| 187.facerec | 1 | 118 | 18.7 | 1 | 118 | 18.7 |
| 188.amp | 1 | 214 | 11.9 | 1 | 214 | 11.9 |
| 189.lucas | 1 | 108 | 21.4 | 1 | 108 | 21.5 |
| 191.fma3d | 1 | 168 | 14.5 | 1 | 168 | 14.5 |
| 200.sixtrack | 1 | 199 | 6.41 | 1 | 199 | 6.42 |
| 301.apsi | 1 | 241 | 12.5 | 1 | 241 | 12.5 |

Hardware

CPU: Intel Xeon 2.8 (800 MHz system bus)
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
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 PC2-3200 Dual Rank
Disk Subsystem: 36GB SCSI 10K RPM
Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
Compiler: Intel C/C++ Compiler 9.0 (20050624Z) for 32-bit applications
Intel Fortran Compiler 9.0 (20050624Z) for 32-bit applications
Microsoft Visual Studio .NET 13.0.9466 (for libraries)
MicroQuill Smartheap Library 7.30
File System: NTFS
System State: Default

Notes/Tuning Information

GENERAL

ONESTEP=yes
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

PORTABILITY

178.galgel: -FI /F3200000
191.fma3d: srcalt=windowsdp

BASE TUNING

C/F77/F90: -fast -Qansi_alias +FDO

PEAK TUNING

168.wupwise: basepeak=yes
171.swim: -fast -f77rtl +FDO
172.mgrid: basepeak=yes
173.applu: -fast -Qscalar_rep- -Qauto -f77rtl +FDO
177.mesa: -fast +FDO
178.galgel: basepeak=yes
179.art: basepeak=yes
183.quake: -fast -Oa -Qrcd +FDO shlw32M.lib



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Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: basepeak=yes
189.lucas: -fast
191.fma3d: basepeak=yes
200.sixtrack: -Qipo +FDO
301.apsi: basepeak=yes
```