



CFP2000 Result

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IBM Corporation

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

SPECfp2000 = 1583

SPECfp_base2000 = 1559

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	71.6	2234	71.6	2234	
171.swim	3100	136	2273	136	2273	
172.mgrid	1800	145	1240	145	1240	
173.applu	2100	160	1311	158	1331	
177.mesa	1400	114	1224	114	1224	
178.galgel	2900	99.5	2913	99.5	2913	
179.art	2600	69.7	3731	69.7	3731	
183.quake	1300	65.0	2000	53.8	2418	
187.facerec	1900	118	1609	118	1610	
188.amp	2200	214	1027	214	1027	
189.lucas	2000	108	1849	108	1855	
191.fma3d	2100	168	1252	168	1252	
200.sixtrack	1100	199	553	199	553	
301.apsi	2600	241	1081	241	1081	

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
```