



CFP2000 Result

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IBM Corporation

IBM eServer Bladecenter HS20 (3.0 GHz Xeon, 2MB L2 Cache)

SPECfp2000 = 1648

SPECfp_base2000 = 1627

SPEC license #: 11 Tested by: IBM Corporation Test date: Dec-2005 Hardware Avail: Feb-2006 Software Avail: Dec-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	68.0	2351	68.0	2351	
171.swim	3100	142	2190	142	2184	
172.mgrid	1800	138	1309	138	1309	
173.applu	2100	148	1417	152	1382	
177.mesa	1400	107	1314	107	1315	
178.galgel	2900	92.4	3137	92.4	3137	
179.art	2600	69.0	3768	69.0	3768	
183.quake	1300	63.9	2035	52.1	2497	
187.facerec	1900	112	1695	112	1702	
188.amp	2200	201	1096	201	1096	
189.lucas	2000	109	1840	108	1849	
191.fma3d	2100	160	1312	160	1312	
200.sixtrack	1100	183	602	183	602	
301.apsi	2600	234	1113	234	1113	

Hardware

CPU: Intel Xeon 3.0 (800 MHz system bus)
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 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: 2048(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4 x 1024 MB ECC PC2-3200 Single Rank
 Disk Subsystem: 73GB SCSI 10K RPM
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
 Compiler: Intel C/C++ Compiler 9.0 (20051130Z) for 32-bit applications
 Intel Fortran Compiler 9.0 (20051120Z) 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 /F32000000

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
 187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO



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Notes/Tuning Information (Continued)

188. ammp: basepeak=yes
189. lucas: -fast
191. fma3d: basepeak=yes
200. sixtrack: -fast +FDO
301. apsi: basepeak=yes