



CFP2000 Result

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IBM Corporation

IBM eServer xSeries 346 (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: Aug-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	71.6	25.9	1	71.6	25.9
171.swim	1	137	26.3	1	137	26.3
172.mgrid	1	145	14.4	1	145	14.4
173.applu	1	160	15.3	1	157	15.5
177.mesa	1	114	14.3	1	114	14.3
178.galgel	1	99.1	34.0	1	99.1	34.0
179.art	1	69.3	43.5	1	69.3	43.5
183.quake	1	65.3	23.1	1	53.4	28.2
187.facerec	1	118	18.7	1	118	18.7
188.amp	1	212	12.0	1	212	12.0
189.lucas	1	108	21.5	1	107	21.7
191.fma3d	1	167	14.6	1	167	14.6
200.sixtrack	1	198	6.45	1	198	6.45
301.apsi	1	240	12.6	1	240	12.6

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: 8 x 512 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 (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