



CFP2000 Result

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IBM Corporation
IBM x335(3.2GHz, 533MHZ FSB)

SPECfp_rate2000 = 16.0
SPECfp_rate_base2000 = 14.3

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: Feb-2004 | Hardware Avail: Feb-2004 | Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	199	18.7	2	198	18.7
171.swim	2	355	20.2	2	355	20.2
172.mgrid	2	322	13.0	2	322	13.0
173.applu	2	401	12.1	2	384	12.7
177.mesa	2	195	16.7	2	195	16.7
178.galgel	2	251	26.8	1	112	30.2
179.art	2	627	9.62	1	119	25.4
183.quake	2	209	14.4	2	211	14.3
187.facerec	2	228	19.4	2	227	19.4
188.amp	2	385	13.3	2	403	12.7
189.lucas	2	323	14.3	1	149	15.6
191.fma3d	2	384	12.7	2	384	12.7
200.sixtrack	2	277	9.21	2	276	9.23
301.apsi	2	666	9.05	2	412	14.6

Hardware

CPU: Intel Xeon processor
CPU MHz: 3200
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 + 8KB(D) on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 2048(I+D) on chip
Other Cache: N/A
Memory: 4x256MB PC2100 CL2.5 ECC
Disk Subsystem: 1 x 36GB 10K RPM SCSI
Other Hardware: None

Software

Operating System: Windows Server 2003, Standard Edition (Build 3790)
Compiler: Intel C++ Compiler 8.0 Build 20031017Z
Intel Fortran Compiler 8.0 Build 20040125Z
File System: NTFS
System State: Default (Hyper-Threading Technology is disabled)

Notes/Tuning Information

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Portability:
178.galgel: -FI /F32000000
ONESTEP=yes +FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning: -Qipo -QxN -O3 +FDO
Peak tuning:
168.wupwise: -Qipo -QxN -O3 +FDO
171.swim: -Qipo -QxN -O3 +FDO
172.mgrid: -Qipo -QxN -O3 +FDO
173.applu: -Qipo -QxN -O3 -Qscalar_rep- -Qauto +FDO
177.mesa: -O3 -QxN -Qipo -Oa -Qscalar_rep- +FDO
178.galgel: -Qipo -QxN -O3 +FDO users=1
179.art: -Oa -Qipo -Qunroll4 -Zp4 users=1
183.quake: -Qipo -QxN -Oa -Qrcd +FDO
187.facerec: -O3 -QxN -Qipo -Qunroll1 -Qscalar_rep- +FDO
188.amp: -Oa -QxN
189.lucas: -QxN -Qipo -O3 -Qprefetch- +FDO users=1
191.fma3d: basepeak=yes

```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxN +FDO
301.apsi: -Qipo -QxN -O3 +FDO