



CFP2000 Result

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IBM Corporation
IBM System p5 520 (1900 MHz, 2 CPU)

SPECfp_rate2000 = 67.6
SPECfp_rate_base2000 = 65.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	96.6	76.8	4	91.2	81.4
171.swim	4	194	74.0	4	194	74.0
172.mgrid	4	161	52.0	4	161	52.0
173.applu	4	173	56.5	4	171	57.0
177.mesa	4	179	36.3	4	164	39.6
178.galgel	4	118	114	4	104	130
179.art	4	39.4	306	4	39.4	307
183.quake	4	43.7	138	4	43.7	138
187.facerec	4	130	67.6	4	130	67.6
188.amp	4	285	35.9	4	285	35.9
189.lucas	4	142	65.4	4	142	65.4
191.fma3d	4	218	44.7	4	209	46.7
200.sixtrack	4	183	27.9	4	178	28.7
301.apsi	4	266	45.4	4	238	50.6

Hardware

CPU: POWER5+
CPU MHz: 1900
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (SMT on)
CPU(s) orderable: 2
Parallel: None
Primary Cache: 64KBI+32KBD (on chip)/core
Secondary Cache: 1920KB unified (on chip)/chip
L3 Cache: 36MB unified (off-chip)/DCM, 1 DCM/SUT
Other Cache: None
Memory: 8x2GB
Disk Subsystem: 1x73GB SCSI, 15K RPM
Other Hardware: None

Software

Operating System: AIX 5L V5.3
Compiler: XL C/C++ Enterprise Edition Version 8.0 for AIX
XL Fortran Enterprise Edition Version 10.1 for AIX
Other Software: ESSL 4.2.0.2
File System: AIX/JFS2
System State: Multi-user

Notes/Tuning Information

Portability Flags:
-qfixed used in: 168.wupwise, 171.swim, 172.mgrid, 173.applu,
178.galgel, 200.sixtrack, 301.apsi
-qsuffix=f=f90 used in: 178.galgel, 187.facerec, 189.lucas, 191.fma3d

Base Optimization Flags:
Fortran: -O5 -lhamu -blpdata -lmass
C: -qpdf1/pdf2
-O5 -blpdata -qalign=natural

Peak Optimization Flags
168.wupwise: -qpdf1/pdf2
-O5 -blpdata -qfdpr -qalign=struct=natural
fdpr -q -O3
171.swim: basepeak=1
172.mgrid: basepeak=1
173.applu: -O5 -blpdata -lmass

