

CFP2000 Result

IBM Corporation

IBM eServer p5 550 Express (1500 MHz, 1 CPU)

SPECfp2000 = SPECfp base2000 = NC

SPEC license #: 11 Tested by:

IBM Test date:

Oct-2004 Software Avail:

Oct-2004

SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the submitter has reported that measurements on a production system were not, as required by the SPEC CPU2000 Run Rules, within the 1.75% lower bound of the preproduction system.

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	NC	NC	NC	NC
171.swim	3100	NC	NC	NC	NC
172.mgrid	1800	NC	NC	NC	NC
173.applu	2100	NC	NC	NC	NC
177.mesa	1400	NC	NC	NC	NC
178.galgel	2900	NC	NC	NC	NC
179.art	2600	NC	NC	NC	NC
183.equake	1300	NC	NC	NC	NC
187.facerec	1900	NC	NC	NC	NC
188.ammp	2200	NC	NC	NC	NC
189.lucas	2000	NC	NC	NC	NC
191.fma3d	2100	NC	NC	NC	NC
200.sixtrack	1100	NC	NC	NC	NC
301.apsi	2600	NC	NC	NC	NC

Hardware

CPU: POWER5 CPU MHz: 1500

FPU: Integrated

CPU(s) enabled: 1 core, 1 chip, 2 cores/chip (SMT off)

CPU(s) orderable: 2.4 No Parallel:

Primary Cache: 64KBI+32KBD (on chip)/core Secondary Cache: 1920KB unified (on chip)/chip L3 Cache: 36MB unified (off chip)/DCM, 2 DCM/SUT

Other Cache: None Memory: 16x2 GB

Disk Subsystem: 2x36GB SCSI, 15K RPM

Other Hardware:

Software

.

Operating System: AIX 5L V5.3 Compiler: XL C/C++ Enterprise Edition V7.0 for AIX

XL Fortran Enterprise Edition V9.1 for AIX Other Software: ÎBM ESSL for AIX V4.2

AIX/JFS2

File System: System State: Multi-user

Notes/Tuning Information

Tested by IBM

Portability Flags:

168.wupwise, 171.swim, 172.mgrid, 173.applu, -qfixed used in:

178.galgel, 200.sixtrack, 301.apsi -qsuffix=f=f90 used in: 178.galgel, 187.facerec, 189.lucas, 191.fma3d

Base Optimization Flags:



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Notes/Tuning Information (Continued)

C: -qpdf1/pdf2

-05 -blpdata -lmass

-qpdf1/pdf2 Fortran:

-05 -blpdata -lmass

Peak Optimization Flags:

-05 -qarch=pwr3 -qtune=pwr3 -blpdata -lmass 168.wupwise:

F77=xlf

-05 -qarch=pwr3 -qtune=pwr3 -blpdata -lmass 171.swim:

F77=xlf

172.mgrid: -qpdf1/pdf2

-05 -blpdata -lmass

173.applu: -05 -qarch=pwr3 -qtune=pwr3 -blpdata -lmass

F77=xlf

-qpdf1/pdf2 177.mesa:

-05

178.galgel: -05 -blpdata -qessl -lessl

179.art: -05 -lmass -qessl -lessl -blpdata -qsave

183.equake: -qpdf1/pdf2

-05 -blpdata -lmass

-03 -qhot -qarch=pwr5 -qtune=pwr5 -qfdpr 187.facerec:

fdpr -R3

188.ammp: -qpdf1/pdf2

-05 -blpdata -qalign=natural -D_ILS_MACROS

189.lucas: -05 -blpdata -lmass

191.fma3d: -qpdf1/pdf2

-05 -blpdata -qalign=natural -qhot=arraypad -Q

200.sixtrack: -03 -qhot -qarch=pwr5 -qtune=pwr5 -qfdpr

301.apsi: -05 -lmass -qessl -lessl -blpdata -qsave

SMT: Acronym for "Simultaneous Multi-Threading". A processor technology that allows the simultaneous execution of multiple thread contexts within a single processor core. (Enabled by default)

ESSL: Engineering and Scientific Subroutine Library DCM: Acronym for "Dual-Chip Module" (one dual-core processor chip + one L3-cache chip)

SUT: Acronym for "System Under Test"

IBM XL C for AIX invoked as xlc

Fortran: IBM XL Fortran for AIX invoked as xlf90

APAR IY 62534 was applied to AIX to enable new hardware support.

ulimits set to unlimited.

Large page mode was set as follows:

vmo -r -o lgpg_regions=600 -o lgpg_size=16777216 -o memory_affinity=1



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Notes/Tuning Information (Continued) chuser capabilities=CAP_BYPASS_RAC_VMM, CAP_PROPAGATE \$USER shutdown -r

Three cores were deconfigured and SMT disabled at the open-firmware prompt, using the command

boot -s cpu=1 -s smt_off