



CFP2000 Result

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IBM Corporation
IBM eServer pSeries 655 (1700 Mhz, 1 CPU)

SPECfp2000 = --
SPECfp_base2000 = 1401

SPEC license #: 11 | Tested by: IBM, Austin, Tx | Test date: Sep-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	78.4	2040			
171.swim	3100	173	1792			
172.mgrid	1800	192	939			
173.aplu	2100	175	1199			
177.mesa	1400	192	727			
178.galgel	2900	91.4	3173			
179.art	2600	113	2305			
183.quake	1300	56.0	2321			
187.facerec	1900	122	1555			
188.amp	2200	232	948			
189.lucas	2000	146	1371			
191.fma3d	2100	175	1199			
200.sixtrack	1100	151	730			
301.apsi	2600	208	1253			

Hardware

CPU: POWER4+
CPU MHz: 1700
FPU: Integrated
CPU(s) enabled: 1 core, 4 chips, 1 core/chip, 4 chips/MCM
CPU(s) orderable: 1 MCM (order by # MCM)
Parallel: No
Primary Cache: 64KBI+32KBD (on chip) per core
Secondary Cache: 1536KB unified (off chip) per chip
L3 Cache: 128MB unified (off-chip) per MCM, 1 MCM in SUT
Other Cache: None
Memory: 16 GB
Disk Subsystem: 1x36GB SCSI, 10K RPM
Other Hardware: None

Software

Operating System: SLES 8 for pSeries w/2.4.19 kernel, Service Release 1
Compiler: IBM VisualAge C++ Version 6.0 for Linux on pSeries, May 2003 PTF
IBM XL Fortran Version 8.1 for Linux on pSeries, May 2003 PTF
File System: ext2
System State: Multi-user

Notes/Tuning Information

cfg file: ppc32-linux-ibm-ref-o5.cfg

Compiled 32-bit applications

CC = /opt/ibmcmp/vac/6.0/bin/xlc
CXX = /opt/ibmcmp/vacpp/6.0/bin/xlC
FC = /opt/ibmcmp/xlf/8.1/bin/xlf90
F77 = /opt/ibmcmp/xlf/8.1/bin/xlf90

MCM: Acronym for "Multi-chip module"
SUT: Acronym for "System under test"

SLES: SuSE Linux Enterprise Server

3 processors were deconfigured through the configuration menu.



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Notes/Tuning Information (Continued)

Floating point optimization flags
FP: -O5

Floating point portability flags
wupwise: -qfixed
swim: -qfixed
mgrid: -qfixed
applu: -qfixed
mesa: none
galgel: -qfixed -qsuffix=f=f90
facerec: -qsuffix=f=f90
lucas: -qsuffix=f=f90
fma3d: -qsuffix=f=f90
sixtrack: -qfixed
apsi: -qfixed