CFP2000 Result

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IBM Corporation

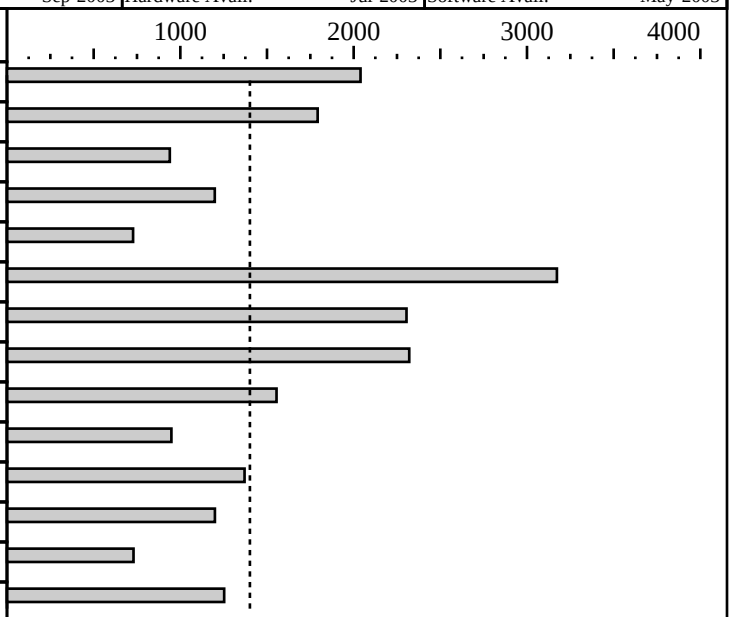
IBM eServer pSeries 655 (1700 Mhz, 1 CPU)

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.applu	2100	175	1199		
177.mesa	1400	192	727		
178.galgel	2900	91.4	3173		
179.art	2600	113	2305		
183.equake	1300	56.0	2321		
187.facerec	1900	122	1555		
188.ammp	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)

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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
```