CFP2000 Result

IBM Corporation

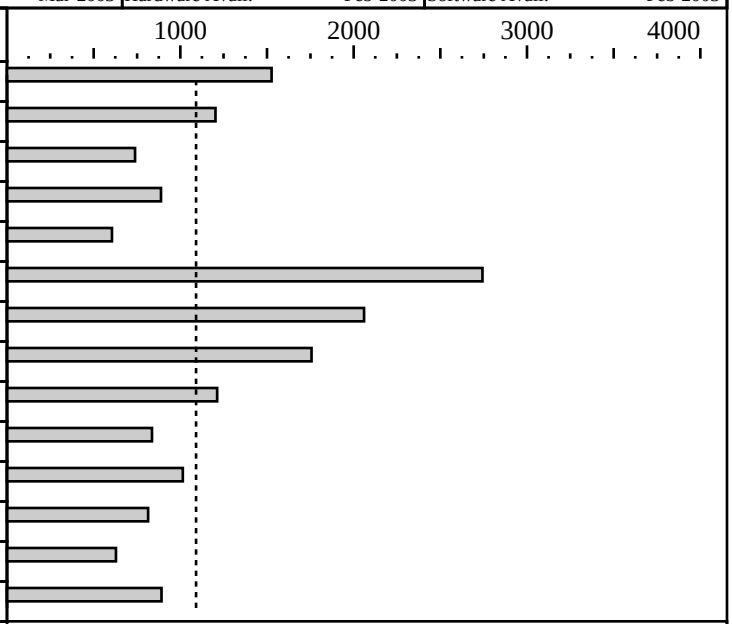
IBM eServer pSeries 650 Model 6M2 (1450 MHz, 1 CPU)

SPECfp2000 = --

SPECfp_base2000 = 1091

SPEC license #: 11 | Tested by: IBM, Austin, Tx | Test date: Mar-2003 | Hardware Avail: Feb-2003 | Software Avail: Feb-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	105	1526		
171.swim	3100	258	1203		
172.mgrid	1800	244	739		
173.applu	2100	236	888		
177.mesa	1400	231	606		
178.galgel	2900	106	2744		
179.art	2600	126	2060		
183.equake	1300	74.0	1757		
187.facerec	1900	157	1212		
188.ammp	2200	263	836		
189.lucas	2000	197	1014		
191.fma3d	2100	258	814		
200.sixtrack	1100	175	629		
301.apsi	2600	292	891		



Hardware

CPU:	POWER4+
CPU MHz:	1450
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip, 1 chip/SCM
CPU(s) orderable:	1,2,3,4 (order by # SCM)
Parallel:	No
Primary Cache:	64KBI+32KBD (on chip) per core
Secondary Cache:	1536KB unified (on chip) per chip
L3 Cache:	32MB unified (off-chip) per SCM, 1 SCM in SUT
Other Cache:	None
Memory:	8 GB
Disk Subsystem:	1x18GB SCSI
Other Hardware:	None

Software

Operating System:	SLES 8 for pSeries w/2.4.19 kernel
Compiler:	IBM VisualAge C++ Version 6.0 for Linux on pSeries IBM XL Fortran Version 8.1 for Linux on pSeries
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

SCM: Acronym for "Single-chip module"
SUT: Acronym for "System under test"

SLES: SuSE Linux Enterprise Server

1 processor was deconfigured through the configuration menu
```

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
```