CFP2000 Result

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IBM Corporation

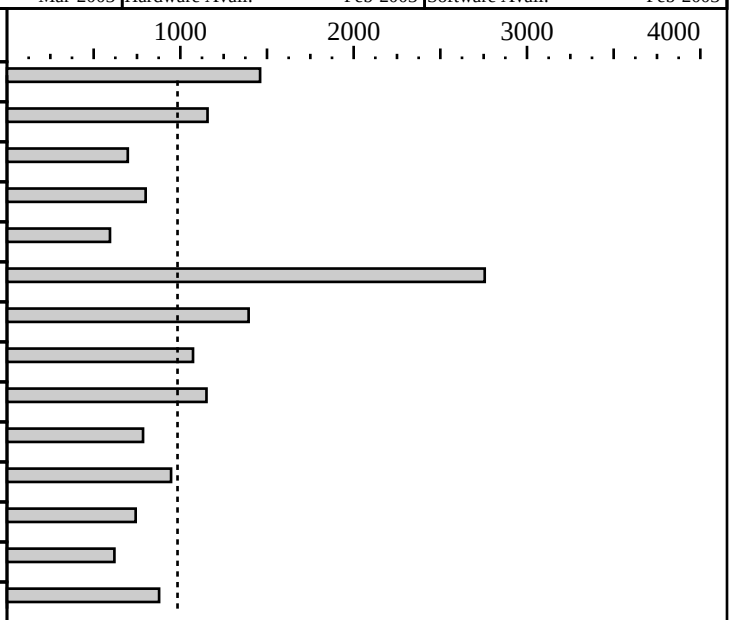
IBM eServer pSeries 630 Model 6E4 (1450 Mhz, 1 CPU)

SPECfp2000 = --

SPECfp_base2000 = 984

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	110	1460		
171.swim	3100	268	1157		
172.mgrid	1800	258	697		
173.applu	2100	263	800		
177.mesa	1400	236	594		
178.galgel	2900	105	2756		
179.art	2600	187	1394		
183.equake	1300	121	1073		
187.facerec	1900	165	1151		
188.ammp	2200	280	785		
189.lucas	2000	211	947		
191.fma3d	2100	283	742		
200.sixtrack	1100	178	620		
301.apsi	2600	296	877		



Hardware

CPU:	POWER4+
CPU MHz:	1450
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip, 1 chip/SCM
CPU(s) orderable:	1,2,4 (order by # cores)
Parallel:	No
Primary Cache:	64KBI+32KBD (on chip) per core
Secondary Cache:	1536KB unified (on chip) per chip
L3 Cache:	8MB unified (off-chip) per SCM, 1 SCM in SUT
Other Cache:	None
Memory:	8 GB
Disk Subsystem:	1x36GB 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

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
```