CFP2000 Result

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IBM Corporation

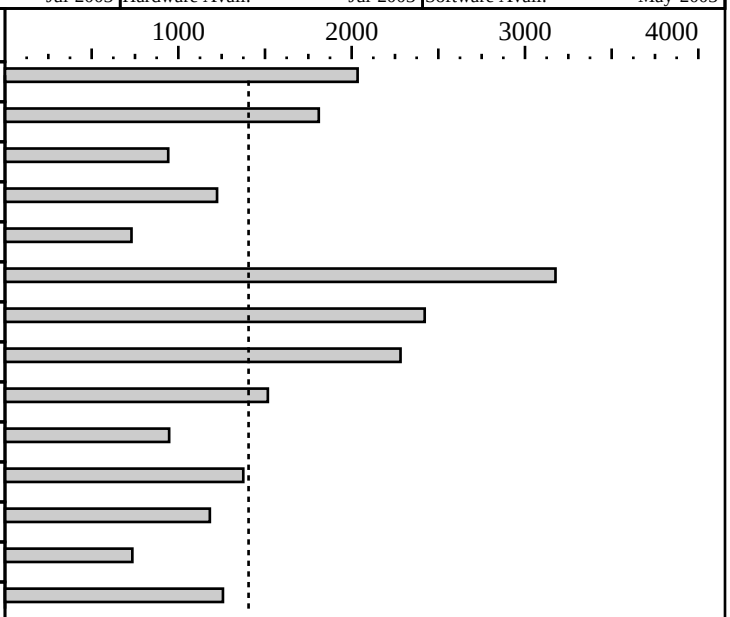
IBM eServer pSeries 655 (1700 Mhz, 1 CPU LPAR)

SPECfp2000 = --

SPECfp_base2000 = 1405

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	78.7	2034		
171.swim	3100	171	1810		
172.mgrid	1800	191	942		
173.applu	2100	172	1223		
177.mesa	1400	192	730		
178.galgel	2900	91.3	3176		
179.art	2600	107	2421		
183.equake	1300	57.0	2282		
187.facerec	1900	125	1516		
188.ammp	2200	232	947		
189.lucas	2000	145	1375		
191.fma3d	2100	178	1182		
200.sixtrack	1100	150	735		
301.apsi	2600	207	1257		



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:	8 GB
Disk Subsystem:	1x36GB SCSI, 10K RPM
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, 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

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

SLES: SuSE Linux Enterprise Server

Running in 1-CPU partition with 8 GB memory on 4-CPU 16GB p655 system.
No other partitions running on the system.
```

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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
```