



# 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.aplu	2100	263	800		
177.mesa	1400	236	594		
178.galgel	2900	105	2756		
179.art	2600	187	1394		
183.quake	1300	121	1073		
187.facerec	1900	165	1151		
188.amp	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