CFP2000 Result

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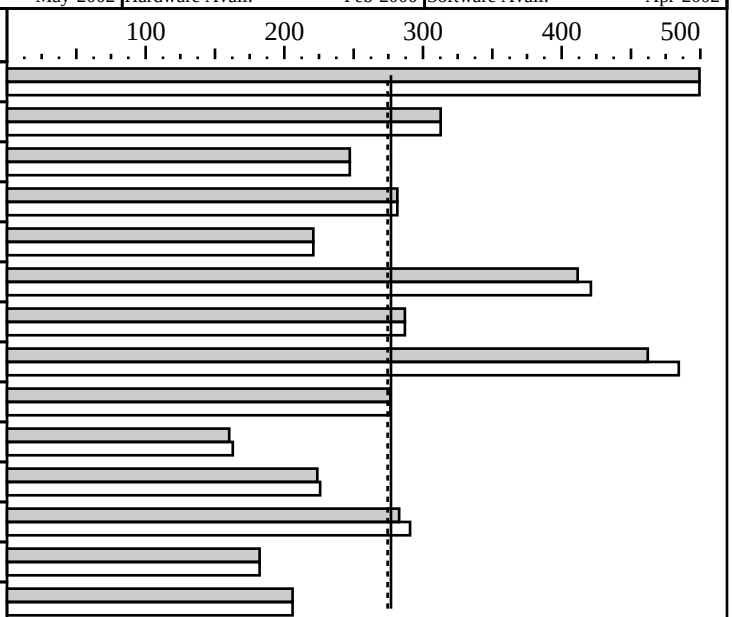
IBM Corporation
RS/6000 44P-170 (333 MHz)

SPECfp2000 = 277

SPECfp_base2000 = 274

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: May-2002 | Hardware Avail: Feb-2000 | Software Avail: Apr-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	320	499	320	499
171.swim	3100	991	313	991	313
172.mgrid	1800	728	247	728	247
173.applu	2100	746	281	746	281
177.mesa	1400	634	221	634	221
178.galgel	2900	705	412	689	421
179.art	2600	906	287	906	287
183.equake	1300	281	462	268	484
187.facerec	1900	687	277	687	277
188.ammp	2200	1373	160	1351	163
189.lucas	2000	894	224	886	226
191.fma3d	2100	743	283	722	291
200.sixtrack	1100	604	182	604	182
301.apsi	2600	1262	206	1262	206



Hardware

CPU:	POWER3-II
CPU MHz:	333
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	1MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1x9.1GB SCSI
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	IBM XL FORTRAN for AIX, Version 7.1.1.1 IBM VisualAge C++ for AIX, Version 6.0 BETA Other Software: MASS 2.7
File System:	AIX/JFS
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  -qfixed used in: wupwise, swim, mgrid, applu, galgel,
   sixtrack, apsi
  -qsuffix=f=f90 used in: galgel, facerec, lucas, fma3d
Base Optimization Flags:
  Fortran:   -O5 -lmass
  C:         -O5 -lmass
Peak Optimization Flags:
  168.wupwise:  basepeak=1
  171.swim:     basepeak=1
  172.mgrid:    basepeak=1
  173.applu:    basepeak=1
  177.mesa:     basepeak=1
  178.galgel:   -O5
  179.art:      basepeak=1
  183.equake:   -O5 -lmass -lhmu -qinline
  187.facerec:  basepeak=1
```

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Notes/Tuning Information (Continued)

```
  188.ammp:     -O3 -qarch=pwr3
  189.lucas:    -qpdf1/pdf2 -O3 -lhmu -lmass
                -qipa=partition=large, fdpr -v -R3
  191.fma3d:    -O4 -lmass -qipa=partition=large
  200.sixtrack: basepeak=1
  301.apsi:     basepeak=1
fdpr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 was applied to AIX 5L V5.1 to enable new hardware support.
ulimits set to unlimited.
Fortran 77 and 90: IBM XL Fortran 7.1.1.1 for AIX invoked
as xlf90.
C: IBM VAC++ invoked as xlc.
The final version of the beta compiler will be available by Sep-2002.
```