CFP2000 Result

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IBM

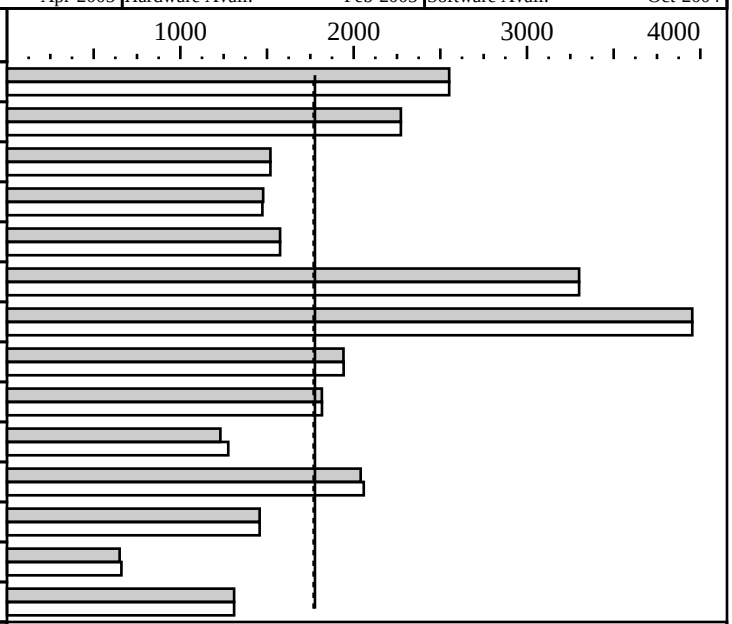
IBM eServer BladeCenter HS20 (3.6 GHz Intel Xeon)

SPECfp2000 = 1777

SPECfp_base2000 = 1769

SPEC license #: 11 | Tested by: IBM, Research Trinagle Park, NC | Test date: Apr-2005 | Hardware Avail: Feb-2005 | Software Avail: Oct-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	62.7	2551	62.7	2551
171.swim	3100	136	2272	136	2272
172.mgrid	1800	118	1520	118	1520
173.applu	2100	142	1478	143	1473
177.mesa	1400	88.9	1576	88.9	1576
178.galgel	2900	87.9	3301	87.9	3301
179.art	2600	65.8	3953	65.8	3953
183.equake	1300	67.0	1941	66.9	1942
187.facerec	1900	105	1817	105	1817
188.ammp	2200	179	1231	172	1277
189.lucas	2000	98.0	2040	97.2	2058
191.fma3d	2100	144	1458	144	1458
200.sixtrack	1100	169	650	167	660
301.apsi	2600	198	1310	198	1310



Hardware

CPU:	Intel Xeon (3.6 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz:	3600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	12K(I) micro-ops + 16KB(D) on chip
Secondary Cache:	2048KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x 2048 MB ECC PC2-3200 Dual Rank
Disk Subsystem:	73GB SCSI 10K RPM
Other Hardware:	

Software

Operating System:	Windows Server 2003 Standard Edition
Compiler:	Intel C/C++ Compiler 8.1 (20041019Z) Intel Fortran Compiler 8.1 (20040802Z) Microsoft Visual Studio .NET 13.0.9466 (for libraries) MicroQuill Smartheap Library 7.30
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
GENERAL
  ONESTEP=yes
  +FDO:   PASS1=-Qprof_gen  PASS2=-Qprof_use
PORTABILITY
  178.galgel:   -FI /F32000000
BASE TUNING
  C/F77/F90:    -fast -QxP -Qansi_alias     +FDO
PEAK TUNING
  168.wupwise:  basepeak=yes
  171.swim:     basepeak=yes
  172.mgrid:    basepeak=yes
  173.applu:    -fast -QxP -Qansi_alias -Qscalar_rep- -Qauto +FDO
  177.mesa:     basepeak=yes
  178.galgel:   basepeak=yes
  179.art:      basepeak=yes
  183.equake:   -fast -QxP -Qansi_alias -Oa -Qrcd +FDO
  187.facerec:  -fast -QxP -Qunroll1 -Qscalar_rep- +FDO
```

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Notes/Tuning Information (Continued)

```
188.ammp:     -Oa -QxP
189.lucas:    -fast -QxP
191.fma3d:    basepeak=yes
200.sixtrack: -QxP -Qipo +FDO
301.apsi:     basepeak=yes
```