CFP2000 Result

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IBM Corporation

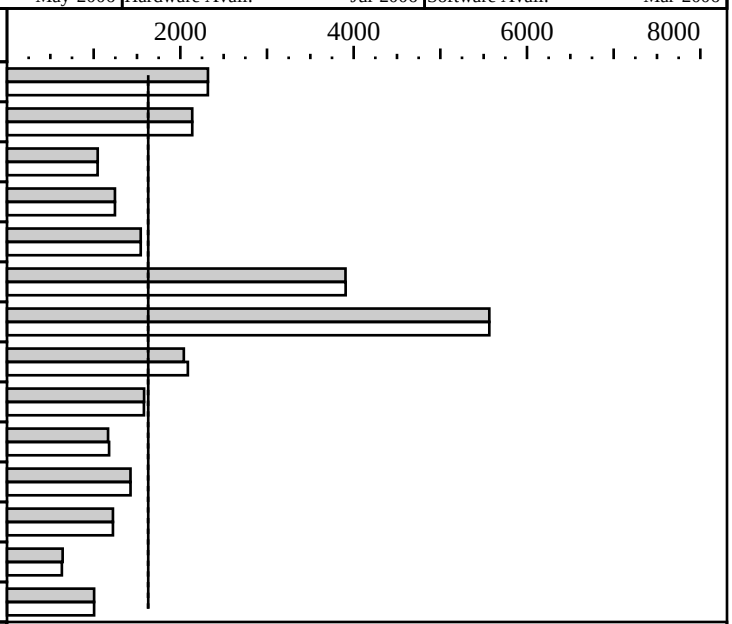
IBM BladeCenter HS21 (1.60 GHz Xeon 5110, 4MB L2 Cache)

SPECfp2000 = 1630

SPECfp_base2000 = 1628

SPEC license #: 11 | Tested by: IBM Corporation | Test date: May-2006 | Hardware Avail: Jul-2006 | Software Avail: Mar-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	69.0	2319	69.0	2318
171.swim	3100	145	2137	145	2137
172.mgrid	1800	172	1047	172	1046
173.applu	2100	169	1245	169	1245
177.mesa	1400	90.7	1543	90.7	1543
178.galgel	2900	74.3	3906	74.2	3907
179.art	2600	46.7	5565	46.7	5565
183.equake	1300	63.7	2040	62.3	2087
187.facerec	1900	120	1582	120	1580
188.ammp	2200	189	1166	187	1178
189.lucas	2000	140	1425	140	1425
191.fma3d	2100	172	1222	172	1222
200.sixtrack	1100	171	642	174	633
301.apsi	2600	259	1005	259	1005



Hardware

CPU:	Intel Xeon processor 5110 (1.60 GHz, 1333 MHz bus)
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1, 2
Parallel:	No
Primary Cache:	32KB(I) + 32KB(D) on chip (per core)
Secondary Cache:	4096KB(I+D) on chip (per chip)
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8 x 1024 MB ECC PC2-5300F
Disk Subsystem:	73GB SAS 15K RPM
Other Hardware:	Memory and I/O Expansion Unit (P/N 42C1600)

Software

Operating System:	Windows Server 2003 Enterprise Edition (32-bit)
Compiler:	Intel C++ and Fortran Compiler 9.1 for 32-bit applications Build 20060323Z Microsoft Visual Studio 2005(for libraries) SmartHeap Library Version 8.0 from http://www.microquill.com/
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
  +FDO: PASS1=  -Qprof_gen  PASS2=-Qprof_use
  Base tuning for Fortran programs:  -fast -Qansi_alias +FDO
  Base tuning for C programs:  -fast    +FDO shlW32M.lib
  Portability:
  178.galgel:   -FI /F32000000
  Peak:
171.swim:     -fast -Qansi_alias +FDO
172.mgrid:    -fast -Qansi_alias +FDO
173.applu:  basepeak=yes
177.mesa:   basepeak=yes
178.galgel:   -fast -Qansi_alias +FDO
179.art:      basepeak=yes
183.equake:   -QxP -Oa -Qrcd -Qipo  +FDO  shlW32M.lib
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -fast -Oa +FDO  shlW32M.lib
189.lucas:    -fast -Qprefetch- +FDO
191.fma3d:    basepeak=yes
```

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Notes/Tuning Information (Continued)

```
200.sixtrack: -Qipo -QxP +FDO
301.apsi:     -fast +FDO
```