CFP2000 Result

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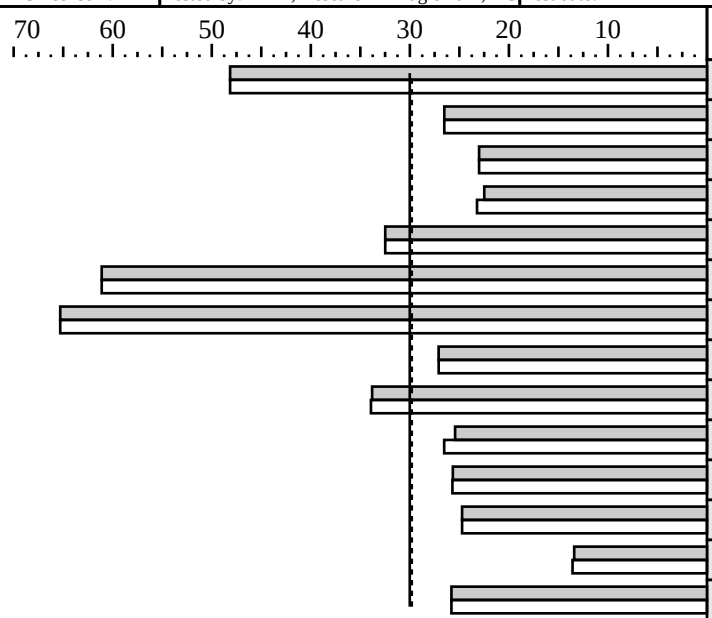
IBM

IBM eServer BladeCenter HS20 (3.2 GHz Intel Xeon)

SPECfp_rate2000 = 30.0

SPECfp_rate_base2000 = 29.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	77.1	48.1	2	77.1	48.1
171.swim	2	271	26.5	2	271	26.5
172.mgrid	2	181	23.0	2	181	23.0
173.applu	2	217	22.5	2	210	23.2
177.mesa	2	100.0	32.5	2	100.0	32.5
178.galgel	2	110	61.1	2	110	61.1
179.art	2	92.4	65.3	2	92.4	65.3
183.equake	2	111	27.1	2	111	27.1
187.facerec	2	130	33.8	2	130	33.9
188.ammp	2	201	25.4	2	192	26.5
189.lucas	2	181	25.7	2	181	25.7
191.fma3d	2	197	24.7	2	197	24.7
200.sixtrack	2	190	13.4	2	188	13.6
301.apsi	2	234	25.8	2	234	25.8

Hardware

CPU:	Intel Xeon (3.2 GHz Xeon, 2MB L2 Cache, 800 MHz system bus)
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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:	4 x 2048 MB ECC DDR2 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
```