



CFP2000 Result

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Bull

NovaScale R440 (Intel Xeon processor 5130, 2.00 GHz)

SPECfp_rate2000 = 66.9

SPECfp_rate_base2000 = 65.6

SPEC license #: 20 | Tested by: Bull | Test date: Nov-2006 | Hardware Avail: Nov-2006 | Software Avail: Nov-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	73.8	101	4	73.8	101
171.swim	4	271	53.1	4	271	53.1
172.mgrid	4	178	47.1	4	178	47.1
173.applu	4	194	50.1	4	194	50.1
177.mesa	4	78.5	82.8	4	78.5	82.8
178.galgel	4	78.1	172	4	78.1	172
179.art	4	84.2	143	4	84.2	143
183.equake	4	125	48.2	4	94.8	63.6
187.facerec	4	113	77.8	4	113	77.8
188.amp	4	167	61.2	4	167	61.2
189.lucas	4	188	49.4	4	188	49.4
191.fma3d	4	192	50.7	4	192	50.7
200.sixtrack	4	141	36.3	4	141	36.3
301.apsi	4	237	50.8	4	237	50.8

Hardware

CPU: Intel Xeon Processor 5130 (1332MHz bus)
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1 to 2 chips
 Parallel: No
 Primary Cache: 32KB(I) + 32KB(D) on chip, per core
 Secondary Cache: 4096KB(I+D) on chip per chip (shared)
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8GB (8x1GB 533MHz ECC CL4 DDR2 FB-DIMM)
 Disk Subsystem: 2x36GB SAS 15000 rpm
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits), Service Pack 1
 Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W_CC_C_9.1.032
 Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W_FC_C_9.1.032
 Microsoft Visual Studio .NET 2003 (for libraries)
 MicroQuill SmartHeap Library 8.0 (shlW32M.lib)
 File System: NTFS
 System State: Default

Notes/Tuning Information

Portability flags:
 178.galgel: -FI /F32000000

Feedback optimization:
 +FDO: PASS1= -Qprof_gen PASS2= -Qprof_use

Baseline Tuning Flags:
 for C programs:
 -fast -Qansi_alias +FDO
 for Fortran programs:
 -fast -Qansi_alias +FDO

Peak Tuning Flags:
 168.wupwise: basepeak=yes
 171.swim: basepeak=yes
 172.mgrid: basepeak=yes
 173.applu: basepeak=yes



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Notes/Tuning Information (Continued)

```
177.mesa:      basepeak=yes
178.galgel:    basepeak=yes
179.art:       basepeak=yes
183.quake:    -fast -Oa -Qrcd +FDO ONESTEP=yes shlW32M.lib
187.facerec:  basepeak=yes
188.ammp:     basepeak=yes
189.lucas:    basepeak=yes
191.fma3d:    basepeak=yes
200.sixtrack: basepeak=yes
301.apsi:     basepeak=yes
```

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