



# CFP2000 Result

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## Bull

NovaScale T840 (3.0 GHz, Intel Xeon Processor 5050)

SPECfp\_rate2000 = 42.1

SPECfp\_rate\_base2000 = 41.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	118	62.8	4	118	62.8
171.swim	4	467	30.8	4	467	30.8
172.mgrid	4	292	28.6	4	292	28.6
173.applu	4	321	30.4	4	321	30.4
177.mesa	4	117	55.6	4	117	55.6
178.galgel	4	123	109	4	123	109
179.art	4	174	69.5	4	174	69.5
183.equake	4	214	28.2	4	161	37.5
187.facerec	4	189	46.5	4	189	46.5
188.amp	4	273	37.4	4	273	37.4
189.lucas	4	305	30.4	4	305	30.4
191.fma3d	4	286	34.0	4	286	34.0
200.sixtrack	4	188	27.1	4	188	27.1
301.apsi	4	286	42.2	4	286	42.2

### Hardware

CPU: Intel Xeon Processor 5050 (3.0GHz, 2x2MB L2, 667MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1 to 2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core  
Secondary Cache: 2048KB(I+D) (on chip) per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8GB (8 x 1GB 533MHz ECC CL4 DDR2 FB-DIMM)  
Disk Subsystem: 2x73GB SCSI 10K 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 20060706Z Package ID: W\_CC\_C\_9.1.028  
Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060706Z Package ID: W\_FC\_C\_9.1.028  
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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