



# CFP2000 Result

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## Bull

NovaScale R440 (Intel Xeon processor 5160, 3.00 GHz)

SPECfp\_rate2000 = 78.9

SPECfp\_rate\_base2000 = 77.3

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	68.5	108	4	68.5	108
171.swim	4	264	54.4	4	264	54.4
172.mgrid	4	167	50.1	4	167	50.1
173.applu	4	187	52.2	4	187	52.2
177.mesa	4	54.1	120	4	54.1	120
178.galgel	4	58.7	229	4	58.7	229
179.art	4	76.2	158	4	76.2	158
183.quake	4	119	50.5	4	89.7	67.3
187.facerec	4	95.2	92.6	4	95.2	92.6
188.amp	4	122	83.8	4	122	83.8
189.lucas	4	179	51.9	4	179	51.9
191.fma3d	4	167	58.5	4	167	58.5
200.sixtrack	4	94.5	54.0	4	94.5	54.0
301.apsi	4	193	62.6	4	193	62.6

### Hardware

CPU: Intel Xeon Processor 5160 (1332MHz bus)  
 CPU MHz: 3000  
 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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