



# CFP2000 Result

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## Bull

NovaScale B280 (Intel Xeon processor 5110, 1.60 GHz)

SPECfp\_rate2000 = 55.3

SPECfp\_rate\_base2000 = 54.8

SPEC license #: 20 Tested by: Bull Test date: Dec-2006 Hardware Avail: Jan-2007 Software Avail: Dec-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	90.3	82.2	4	90.3	82.2
171.swim	4	338	42.6	4	338	42.6
172.mgrid	4	219	38.2	4	219	38.2
173.applu	4	243	40.0	4	243	40.0
177.mesa	4	98.0	66.3	4	97.6	66.6
178.galgel	4	96.7	139	4	96.7	139
179.art	4	86.0	140	4	86.0	140
183.equake	4	116	52.2	4	116	52.2
187.facerec	4	137	64.2	4	137	64.2
188.amp	4	237	43.1	4	206	49.7
189.lucas	4	225	41.3	4	225	41.3
191.fma3d	4	237	41.1	4	237	41.1
200.sixtrack	4	175	29.2	4	175	29.2
301.apsi	4	276	43.8	4	276	43.8

### Hardware

CPU: Intel Xeon Processor 5110 (1.60 GHz, 4MB L2, 1066MHz bus)  
CPU MHz: 1600  
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 by 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8GB (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)  
Disk Subsystem: 1x73GB SAS 10000 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 20061103Z Package ID: W\_CC\_C\_9.1.033  
Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20061103Z Package ID: W\_FC\_C\_9.1.033  
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 +FDO ONESTEP=yes shlW32M.lib  
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: -fast +FDO ONESTEP=yes
178.galgel: basepeak=yes
179.art: basepeak=yes
183.quake: basepeak=yes
187.facerec: basepeak=yes
188.ammp: -fast +FDO ONESTEP=yes
189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes
```

Other Configuration Notes

For information about Bull please see:  
<http://www.bull.com>