



# CFP2000 Result

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## Bull

NovaScale B280 (Intel Xeon processor E5335, 2.00 GHz)

SPECfp2000 = 2052

SPECfp\_base2000 = 2044

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	49.9	3205	49.9	3205	
171.swim	3100	120	2577	120	2577	
172.mgrid	1800	138	1303	138	1303	
173.applu	2100	122	1717	122	1717	
177.mesa	1400	76.1	1839	76.0	1843	
178.galgel	2900	60.3	4812	60.3	4812	
179.art	2600	37.5	6930	37.5	6930	
183.quake	1300	50.3	2582	50.3	2582	
187.facerec	1900	96.3	1974	96.3	1974	
188.amp	2200	154	1425	147	1496	
189.lucas	2000	114	1758	114	1758	
191.fma3d	2100	134	1573	134	1573	
200.sixtrack	1100	137	800	137	800	
301.apsi	2600	213	1221	213	1221	

### Hardware

CPU: Intel Xeon Processor E5335 (2.00 GHz, 8MB L2, 1333MHz bus)  
CPU MHz: 2000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 4 cores/chip  
CPU(s) orderable: 1 to 2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 8MB(I+D) on chip, per chip ( 4MB 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 Pack1  
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

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

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