



# CFP2000 Result

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## Bull

NovaScale B280 (Intel Xeon processor E5320, 1.86 GHz)

SPECfp\_rate2000 = 78.0

SPECfp\_rate\_base2000 = 76.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	171	86.9	8	171	86.9
171.swim	8	689	41.7	8	689	41.7
172.mgrid	8	429	39.0	8	429	39.0
173.applu	8	460	42.4	8	460	42.4
177.mesa	8	84.4	154	8	83.7	155
178.galgel	8	110	246	8	110	246
179.art	8	128	188	8	128	188
183.equake	8	221	54.6	8	221	54.6
187.facerec	8	183	96.3	8	183	96.3
188.amp	8	241	84.9	8	190	107
189.lucas	8	403	46.0	8	403	46.0
191.fma3d	8	381	51.2	8	381	51.2
200.sixtrack	8	157	64.8	8	157	64.8
301.apsi	8	288	83.9	8	288	83.9

### Hardware

CPU: Intel Xeon Processor E5320 (1.86 GHz, 8MB L2, 1066MHz bus)  
CPU MHz: 1860  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 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 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>