



CFP2000 Result

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Bull

NovaScale B260 (Intel Xeon processor E5320, 1.86 GHz)

SPECfp2000 = 1830

SPECfp_base2000 = 1823

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	58.3	2745	58.3	2745	
171.swim	3100	149	2082	149	2082	
172.mgrid	1800	153	1178	153	1178	
173.applu	2100	142	1480	142	1480	
177.mesa	1400	82.4	1699	82.2	1703	
178.galgel	2900	64.8	4472	64.8	4472	
179.art	2600	40.2	6475	40.2	6475	
183.quake	1300	58.0	2243	58.0	2243	
187.facerec	1900	107	1780	107	1780	
188.amp	2200	168	1308	159	1382	
189.lucas	2000	135	1483	135	1483	
191.fma3d	2100	151	1387	151	1387	
200.sixtrack	1100	147	748	147	748	
301.apsi	2600	229	1137	229	1137	

Hardware

CPU: Intel Xeon Processor E5320 (1.86 GHz, 8MB L2, 1066MHz bus)
CPU MHz: 1860
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 (2GB DIMMx4, 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.ammmp: -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>