



CFP2000 Result

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Bull

NovaScale B280 (Intel Xeon processor E5320, 1.86 GHz)

SPECfp2000 = 1845

SPECfp_base2000 = 1837

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 | 57.5 | 2782 | 57.5 | 2782 | |
| 171.swim | 3100 | 146 | 2122 | 146 | 2122 | |
| 172.mgrid | 1800 | 152 | 1185 | 152 | 1185 | |
| 173.applu | 2100 | 140 | 1498 | 140 | 1498 | |
| 177.mesa | 1400 | 82.0 | 1708 | 82.0 | 1708 | |
| 178.galgel | 2900 | 64.8 | 4479 | 64.8 | 4479 | |
| 179.art | 2600 | 40.2 | 6475 | 40.2 | 6475 | |
| 183.quake | 1300 | 57.3 | 2270 | 57.3 | 2270 | |
| 187.facerec | 1900 | 107 | 1782 | 107 | 1782 | |
| 188.amp | 2200 | 168 | 1310 | 159 | 1385 | |
| 189.lucas | 2000 | 132 | 1519 | 132 | 1519 | |
| 191.fma3d | 2100 | 150 | 1396 | 150 | 1396 | |
| 200.sixtrack | 1100 | 147 | 748 | 147 | 748 | |
| 301.apsi | 2600 | 227 | 1146 | 227 | 1146 | |

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 (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

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

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