



CFP2000 Result

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Bull

NovaScale R460 (Intel Xeon processor 5160, 3.00 GHz)

SPECfp2000 = 2626

SPECfp_base2000 = 2572

SPEC license #: 20 Tested by: Bull Test date: Oct-2006 Hardware Avail: Oct-2006 Software Avail: Oct-2006

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|--------------|----------------|--------------|------------|---------|-------|
| 168.wupwise | 1600 | 44.5 | 3593 | 44.5 | 3593 |
| 171.swim | 3100 | 114 | 2722 | 114 | 2722 |
| 172.mgrid | 1800 | 103 | 1755 | 103 | 1755 |
| 173.applu | 2100 | 106 | 1977 | 106 | 1977 |
| 177.mesa | 1400 | 52.9 | 2645 | 52.9 | 2645 |
| 178.galgel | 2900 | 40.7 | 7122 | 40.7 | 7122 |
| 179.art | 2600 | 25.2 | 10335 | 25.2 | 10335 |
| 183.quake | 1300 | 61.0 | 2130 | 45.6 | 2849 |
| 187.facerec | 1900 | 74.4 | 2555 | 74.4 | 2555 |
| 188.amp | 2200 | 103 | 2136 | 103 | 2136 |
| 189.lucas | 2000 | 105 | 1903 | 105 | 1903 |
| 191.fma3d | 2100 | 106 | 1979 | 106 | 1979 |
| 200.sixtrack | 1100 | 91.9 | 1197 | 91.9 | 1197 |
| 301.apsi | 2600 | 163 | 1598 | 163 | 1598 |

Hardware

CPU: Intel Xeon Processor 5160 (1332MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
CPU(s) orderable: 1 to 2
Parallel: No
Primary Cache: 32KB(I) + 32KB(D) on chip, per core
Secondary Cache: 4096KB(I+D) on chip per chip (shared)
L3 Cache: N/A
Other Cache: N/A
Memory: 12GB (12x1GB 533MHz ECC CL4 DDR2 FB-DIMM)
Disk Subsystem: 2x73GB SAS 15000 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 20060927Z Package ID: W_CC_C_9.1.032
Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W_FC_C_9.1.032
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 -Qansi_alias +FDO
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:      basepeak=yes
178.galgel:    basepeak=yes
179.art:       basepeak=yes
183.quake:     -fast -Oa -Qrcd +FDO ONESTEP=yes shlW32M.lib
187.facerec:   basepeak=yes
188.ammmp:     basepeak=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>