# CFP2000 Result

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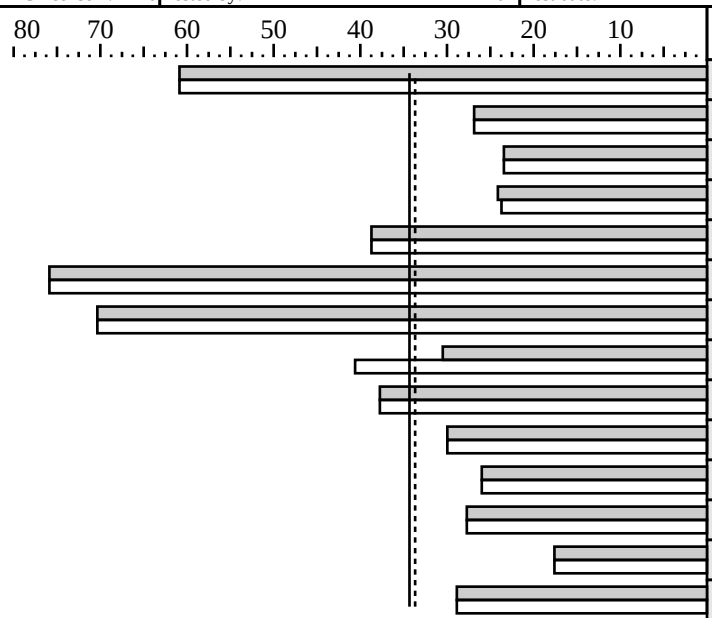
## Bull
## NovaScale Blade 2021 (3.8 GHz Xeon)

SPECfp_rate2000 = 34.3

SPECfp_rate_base2000 = 33.7

SPEC license #: 20 | Tested by: Bull | Test date: May-2006 | Hardware Avail: Dec-2005 | Software Avail: Jun-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 2 | 61.0 | 60.9 | 2 | 61.0 | 60.9 |
| 171.swim | 2 | 268 | 26.9 | 2 | 268 | 26.9 |
| 172.mgrid | 2 | 178 | 23.4 | 2 | 178 | 23.4 |
| 173.applu | 2 | 202 | 24.1 | 2 | 205 | 23.7 |
| 177.mesa | 2 | 83.9 | 38.7 | 2 | 83.9 | 38.7 |
| 178.galgel | 2 | 88.7 | 75.9 | 2 | 88.7 | 75.9 |
| 179.art | 2 | 85.8 | 70.3 | 2 | 85.8 | 70.3 |
| 183.equake | 2 | 98.9 | 30.5 | 2 | 74.3 | 40.6 |
| 187.facerec | 2 | 117 | 37.7 | 2 | 117 | 37.7 |
| 188.ammp | 2 | 170 | 30.0 | 2 | 170 | 30.0 |
| 189.lucas | 2 | 179 | 26.0 | 2 | 179 | 26.0 |
| 191.fma3d | 2 | 176 | 27.7 | 2 | 176 | 27.7 |
| 200.sixtrack | 2 | 145 | 17.6 | 2 | 145 | 17.6 |
| 301.apsi | 2 | 209 | 28.9 | 2 | 209 | 28.9 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor (3.8GHz Xeon, 2MB L2, 800MHz bus) |
| CPU MHz: | 3800 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled) |
| CPU(s) orderable: | 1 to 2 |
| Parallel: | No |
| Primary Cache: | 12K(I) micro-ops + 16KB(D) on chip |
| Secondary Cache: | 2048KB(I+D) on chip |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 8GB (2GB DIMMx4, 2-way interleaved DDR2-400, PC2-3200 CL3) |
| Disk Subsystem: | 2x73GB SCSI 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 20060323Z Package ID: W_CC_P_9.1.022<br>Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060323Z Package ID: W_FC_P_9.1.024<br>Microsoft Visual Studio .NET 2003 (for libraries)<br>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:    -fast -Qscalar_rep- -Qauto -f77rtl +FDO
```

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## Notes/Tuning Information (Continued)

```
    177.mesa:     basepeak=yes
    178.galgel:   basepeak=yes
    179.art:      basepeak=yes
    183.equake:   -fast -Oa -Qrcd +FDO ONESTEP=yes shlW32M.lib
    187.facerec:  basepeak=yes
    188.ammp:     basepeak=yes
    189.lucas:    basepeak=yes
    191.fma3d:    basepeak=yes
    200.sixtrack: basepeak=yes
    301.apsi:     basepeak=yes


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