



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.quake	2	98.9	30.5	2	74.3	40.6
187.facerec	2	117	37.7	2	117	37.7
188.amp	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 Pack 1
Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1, - Build 20060323Z Package ID: W_CC_P_9.1.022
Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060323Z Package ID: W_FC_P_9.1.024
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: -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.quake:    -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
```

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