



CFP2000 Result

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Bull

NovaScale B280 (Intel Xeon processor 5130, 2.0 GHz)

SPECfp_rate2000 = 68.3

SPECfp_rate_base2000 = 67.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	73.0	102	4	73.0	102
171.swim	4	271	53.2	4	271	53.2
172.mgrid	4	176	47.6	4	176	47.6
173.applu	4	194	50.3	4	194	50.3
177.mesa	4	76.8	84.6	4	78.1	83.2
178.galgel	4	77.8	173	4	77.8	173
179.art	4	70.4	171	4	70.4	171
183.equake	4	93.8	64.3	4	93.8	64.3
187.facerec	4	112	78.8	4	112	78.8
188.amp	4	192	53.3	4	165	62.0
189.lucas	4	185	50.3	4	185	50.3
191.fma3d	4	191	51.0	4	191	51.0
200.sixtrack	4	140	36.5	4	140	36.5
301.apsi	4	237	50.8	4	237	50.8

Hardware

CPU: Intel Xeon Processor 5130 (2.0 GHz, 4MB L2, 1333MHz bus)
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1 to 2 chips
Parallel: No
Primary Cache: 32KB(I) + 32KB(D) on chip, per core
Secondary Cache: 4096KB(I+D) on chip per chip (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 (shIW32M.lib)spec.cpu2000.sw_file: NTFS
File System: --
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 shIW32M.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

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