



CFP2000 Result

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Bull

NovaScale R440 (Intel Xeon processor 5130, 2.00 GHz)

SPECfp2000 = 2028

SPECfp_base2000 = 1994

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	51.8	3090	51.8	3090	
171.swim	3100	119	2609	119	2609	
172.mgrid	1800	140	1290	140	1290	
173.applu	2100	125	1684	125	1684	
177.mesa	1400	76.1	1840	76.1	1840	
178.galgel	2900	60.4	4801	60.4	4801	
179.art	2600	37.6	6910	37.6	6910	
183.quake	1300	65.9	1972	51.9	2507	
187.facerec	1900	97.6	1947	97.6	1947	
188.amp	2200	148	1482	148	1482	
189.lucas	2000	118	1694	118	1694	
191.fma3d	2100	135	1560	135	1560	
200.sixtrack	1100	138	798	138	798	
301.apsi	2600	213	1223	213	1223	

Hardware

CPU: Intel Xeon Processor 5130 (1332MHz bus)
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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)
L3 Cache: N/A
Other Cache: N/A
Memory: 8GB (8x1GB 533MHz ECC CL4 DDR2 FB-DIMM)
Disk Subsystem: 2x36GB 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.ammp:      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>