



CFP2000 Result

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Bull

NovaScale R460 (Intel Xeon processor 5110, 1.60 GHz)

SPECfp_rate2000 = 54.8

SPECfp_rate_base2000 = 53.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	89.7	82.7	4	89.7	82.7
171.swim	4	339	42.4	4	339	42.4
172.mgrid	4	219	38.2	4	219	38.2
173.applu	4	244	40.0	4	244	40.0
177.mesa	4	97.7	66.5	4	97.7	66.5
178.galgel	4	96.8	139	4	96.8	139
179.art	4	100	120	4	100	120
183.equake	4	153	39.5	4	115	52.4
187.facerec	4	136	64.7	4	136	64.7
188.amp	4	204	50.2	4	204	50.2
189.lucas	4	221	42.0	4	221	42.0
191.fma3d	4	238	40.9	4	238	40.9
200.sixtrack	4	175	29.1	4	175	29.1
301.apsi	4	275	43.9	4	275	43.9

Hardware

CPU: Intel Xeon Processor 5110 (1066MHz bus)
 CPU MHz: 1600
 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)
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8GB (8x1GB 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 Pack 1
 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 -Qrzd +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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