



CFP2000 Result

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Bull
NovaScale Blade 2320 (2.0 GHz Xeon LV)

SPECfp_rate2000 = 31.3
SPECfp_rate_base2000 = 30.7

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	150	49.6	4	150	49.6
171.swim	4	734	19.6	4	734	19.6
172.mgrid	4	484	17.2	4	484	17.2
173.applu	4	485	20.1	4	485	20.1
177.mesa	4	90.7	71.6	4	90.7	71.6
178.galgel	4	240	56.2	4	240	56.2
179.art	4	314	38.4	4	314	38.4
183.equake	4	242	24.9	4	186	32.5
187.facerec	4	213	41.5	4	213	41.5
188.amp	4	434	23.5	4	434	23.5
189.lucas	4	422	22.0	4	422	22.0
191.fma3d	4	373	26.1	4	373	26.1
200.sixtrack	4	222	23.0	4	222	23.0
301.apsi	4	302	40.0	4	302	40.0

Hardware

CPU: Intel Xeon Processor (2.0GHz Xeon LV, 2MB L2, 667MHz bus)
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1 to 2
Parallel: No
Primary Cache: 12K(I) micro-ops + 16KB(D) (on chip) per core
Secondary Cache: 2048KB(I+D) (on chip) shared by 2 cores
L3 Cache: N/A
Other Cache: N/A
Memory: 8GB (2GB DIMMx4, 2-way interleaved DDR2-400, PC2-3200 CL3)
Disk Subsystem: 2x36GB 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 20060519Z Package ID: W_CC_C_9.1.025
Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060519Z Package ID: W_FC_C_9.1.025
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 -Qrkd +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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