



# CFP2000 Result

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**Bull**  
NovaScale 3045 (1.6 GHz, Itanium2 9050)

SPECfp\_rate2000 = 188  
SPECfp\_rate\_base2000 = 188

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	69.2	215	8	69.2	215
171.swim	8	215	134	8	215	134
172.mgrid	8	169	99.1	8	169	99.1
173.applu	8	68.0	286	8	68.0	286
177.mesa	8	97.2	134	8	97.2	134
178.galgel	8	42.3	637	8	42.3	637
179.art	8	13.4	1799	8	13.4	1799
183.quake	8	93.5	129	8	93.5	129
187.facerec	8	71.8	246	8	71.8	246
188.amp	8	149	137	8	149	137
189.lucas	8	199	93.1	8	199	93.1
191.fma3d	8	199	97.8	8	199	97.8
200.sixtrack	8	76.2	134	8	76.2	134
301.apsi	8	237	102	8	237	102

### Hardware

CPU: Itanium 2 Processor 9050 1600 MHz FSB 533MHz  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1, 2, 3 or 4 (chips)  
Parallel: No  
Primary Cache: 16KB(I) + 16KB(D) on chip per core  
Secondary Cache: 256KBI + 1MBD on chip per core  
L3 Cache: 12MB (I+D) on chip per core  
Other Cache: N/A  
Memory: 128 GB (32 x 4GB ECC DIMMs DDR2-533 PC4200 533MHz CL4)  
Disk Subsystem: 2x10krpm 73GB SAS disks  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition (64 bits), Service Pack 1  
Compiler: Intel(R) C++ Itanium(R) Compiler for Itanium(R)-based app., Version 9.1.  
- Build 20060928 Package ID: W\_CC\_C\_9.1.032  
Intel(R) Fortran Itanium(R) Compiler for Itanium(R)-based app., Version 9.1.  
- Build 20060928 Package ID: W\_FC\_C\_9.1.032  
Microsoft Platform SDK February 2003  
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 /QIPF-fp-relaxed +FDO

Peak Tuning Flags: basepeak=true

For information about Bull please see:



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## Notes/Tuning Information (Continued)

<http://www.bull.com>