



# CFP2000 Result

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## Bull NovaScale 5160 HPC 8 way

SPECfp\_rate2000 = --  
SPECfp\_rate\_base2000 = 113

SPEC license #: 20 | Tested by: JFL | Test date: Feb-2003 | Hardware Avail: Apr-2003 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	178	83.6			
171.swim	8	145	198			
172.mgrid	8	132	127			
173.applu	8	94.0	207			
177.mesa	8	192	67.8			
178.galgel	8	133	202			
179.art	8	85.3	283			
183.quake	8	94.8	127			
187.facerec	8	168	105			
188.amp	8	272	75.0			
189.lucas	8	172	108			
191.fma3d	8	299	65.2			
200.sixtrack	8	127	80.1			
301.apsi	8	401	60.2			

### Hardware

CPU: Itanium 2 processor 1000 MHz  
 CPU MHz: 1000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
 CPU(s) orderable: 4 to 16  
 Parallel: No  
 Primary Cache: 16KBI + 16KBD on chip  
 Secondary Cache: 256KB(I+D) on chip  
 L3 Cache: 3MB (I+D) off chip  
 Other Cache: N/A  
 Memory: 64 GB (4\*16 \* 1GB DIMMs)  
 Disk Subsystem: 1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks  
 Other Hardware: HW configuration: 4 modules of 2 CPUs

### Software

Operating System: 64 bit Linux64: Red Hat Advanced Server 2.1 +Bull expansion Pack  
 Compiler: Intel C++ & Fortran Compilers 7.0 for Linux64 Build 20021210  
 File System: ext2  
 System State: Single User

## Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
Base tuning:
C programs:      -ipo -O3 +FDO -ansi_alias
Fortran programs: -ipo -O3 +FDO
Portability:
178.galgel: -FI
16 CPU machine with only 8 CPU enabled
8 CPU disabled by the service processor before booting
```