



# CFP2000 Result

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**Bull**  
**NovaScale 4040 (1500MHz)**

SPECfp2000 = 2015

SPECfp\_base2000 = 1994

SPEC license #: 20 Tested by: JFL Test date: Jul-2003 Hardware Avail: Sep-2003 Software Avail: Sep-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	121	1320	121	1320	
171.swim	3100	79.5	3898	79.5	3898	
172.mgrid	1800	78.1	2304	77.0	2339	
173.applu	2100	61.3	3427	61.3	3427	
177.mesa	1400	125	1119	125	1119	
178.galgel	2900	71.6	4050	71.6	4050	
179.art	2600	38.0	6834	38.0	6834	
183.quake	1300	50.2	2589	50.2	2589	
187.facerec	1900	103	1846	103	1846	
188.amp	2200	188	1171	188	1171	
189.lucas	2000	126	1593	119	1676	
191.fma3d	2100	203	1034	203	1034	
200.sixtrack	1100	77.1	1427	77.1	1427	
301.apsi	2600	275	945	253	1030	

### Hardware

CPU: Itanium 2 processor 1500 MHz  
 CPU MHz: 1500  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1 to 4  
 Parallel: No  
 Primary Cache: 16KBI + 16KBD on chip  
 Secondary Cache: 256KB(I+D) on chip  
 L3 Cache: 6MB (I+D) on chip  
 Other Cache: N/A  
 Memory: 4 GB (16 \* 256 MB DIMMs)  
 Disk Subsystem: 1 Maxtor 10krpm 36GB SCSI  
 Other Hardware:

### Software

Operating System: Linux 64bit: Red Hat Advanced Server 2.1  
 Compiler: Intel(R) Fortran Compiler for Linux 7.1 (Build 20030605)  
 Intel(R) C++ Compiler for Linux 7.1 (Build 20030605)  
 File System: ext2  
 System State: Single User

## Notes/Tuning Information

+FDO: PASS1=-prof\_gen PASS2=-prof\_use

### Baseline optimization flags:

C programs: -ipo -O3 +FDO -ansi\_alias  
 Fortran programs: -ipo -O3 +FDO

### Portability Flags:

178.galgel: -FI

### Peak optimization flags:

168.wupwise: basepeak=yes  
 171.swim: basepeak=yes  
 172.mgrid: -O3 -ipo  
 173.applu: basepeak=yes  
 177.mesa: basepeak=yes  
 178.galgel: basepeak=yes  
 179.art: basepeak=yes



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## Notes/Tuning Information (Continued)

183.equake: basepeak=yes  
187.facerec: basepeak=yes  
188.ammp: basepeak=yes  
189.lucas: -O3 -ipo  
191.fma3d: basepeak=yes  
200.sixtrack: basepeak=yes  
301.apsi: -O3 -ipo

4 CPU machine with only 1 CPU enabled thanks to boot Linux  
with option maxcpus=0 (ie=UP kernel) in elilo.conf