



CFP2000 Result

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**Bull
NovaScale 4040 (1500MHz)**

SPECfp_rate2000 = **64.6**

SPECfp_rate_base2000 = **64.1**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	139	53.4	4	139	53.4
171.swim	4	268	53.7	4	268	53.7
172.mgrid	4	222	37.7	4	220	38.0
173.applu	4	102	95.3	4	102	95.3
177.mesa	4	126	51.4	4	126	51.4
178.galgel	4	72.3	186	4	72.3	186
179.art	4	38.2	316	4	38.2	316
183.equake	4	111	54.3	4	111	54.3
187.facerec	4	137	64.5	4	137	64.5
188.amp	4	189	54.1	4	189	54.1
189.lucas	4	271	34.2	4	271	34.3
191.fma3d	4	261	37.3	4	261	37.3
200.sixtrack	4	77.2	66.1	4	77.2	66.1
301.apsi	4	304	39.6	4	277	43.6

Hardware

CPU: Itanium 2 processor 1500 MHz
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 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.quake: basepeak=yes
187.facerec: basepeak=yes
188.ammmp: basepeak=yes
189.lucas: -O3 -ipo
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: -O3 -ipo