



CFP2000 Result

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**Bull
NovaScale 4040**

SPECfp_rate2000 = 48.8

SPECfp_rate_base2000 = 48.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	182	40.8	4	183	40.6
171.swim	4	268	53.6	4	268	53.6
172.mgrid	4	233	35.9	4	231	36.1
173.applu	4	111	87.8	4	111	87.8
177.mesa	4	192	33.9	4	192	33.9
178.galgel	4	131	102	4	131	102
179.art	4	68.7	176	4	68.7	176
183.equake	4	132	45.5	4	132	45.5
187.facerec	4	187	47.1	4	187	47.1
188.amp	4	272	37.6	4	255	40.0
189.lucas	4	282	32.9	4	282	32.9
191.fma3d	4	322	30.2	4	322	30.2
200.sixtrack	4	127	40.3	4	127	40.3
301.apsi	4	436	27.7	4	401	30.1

Hardware

CPU: Itanium 2 processor 1000 MHz
 CPU MHz: 1000
 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: 3MB (I+D) off chip
 Other Cache: N/A
 Memory: 4 GB (16 * 512 MB DIMMs)
 Disk Subsystem: 1 SCSI Maxtor 10krpm
 Other Hardware:

Software

Operating System: 64 bit Linux64 : Red Hat Advanced Server 2.1
 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
168.wupwise: +FDO -ipo -O3 -ansi_alias -IPF_fltacc -IPF_flt_eval_method0 -static -ftz
171.swim: +FDO -ipo -O3 (basepeak=yes)
172.mgrid: -O3 -ipo -ansi_alias -IPF_fltacc -IPF_flt_eval_method0 -ftz
173.applu: +FDO -ipo -O3 (basepeak=yes)
177.mesa: +FDO -ipo -O3 -ansi_alias -IPF_fltacc -IPF_flt_eval_method0 -ftz
178.galgel: +FDO -ipo -O3 (basepeak=yes)
179.art: +FDO -ipo -O3 -ansi_alias (basepeak=yes)
183.equake: +FDO -ipo -O3 (basepeak=yes)
187.facerec: +FDO -ipo -O3 (basepeak=yes)
188.amp: +FDO -ipo -O3 -ansi_alias -IPF_fltacc -IPF_flt_eval_method0 -ftz
189.lucas: -O3 -ipo -ansi_alias -IPF_fltacc -IPF_flt_eval_method0 -ftz
```



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Notes/Tuning Information (Continued)

```
191.fma3d: +FDO -ipo -O3 (basepeak=yes)
200.sixtrack: +FDO -O3 -ipo (basepeak=yes)
301.apsi: -O3 -ipo -ansi_alias -IPFfltacc -IPFflt_eval_method0 -ftz
```