



CFP2000 Result

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Bull NovaScale 4040

SPECfp2000 = 1404

SPECfp_base2000 = 1391

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	167	959	167	959	
171.swim	3100	97.1	3194	97.1	3194	
172.mgrid	1800	103	1745	101	1784	
173.applu	2100	90.5	2320	90.5	2320	
177.mesa	1400	194	723	194	723	
178.galgel	2900	120	2410	120	2410	
179.art	2600	59.6	4365	59.6	4365	
183.quake	1300	79.3	1639	79.3	1639	
187.facerec	1900	154	1232	154	1232	
188.amp	2200	249	884	249	884	
189.lucas	2000	142	1409	137	1462	
191.fma3d	2100	281	749	281	749	
200.sixtrack	1100	124	889	124	889	
301.apsi	2600	405	642	377	690	

Hardware

CPU: Itanium 2 processor 1000 MHz
CPU MHz: 1000
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: 3MB (I+D) off chip
Other Cache: N/A
Memory: 2 GB (16 * 256 MB DIMMs)
Disk Subsystem: 1 SCSI Maxtor 10krpm
Other Hardware:

Software

Operating System: Linux 64 bit : Red Hat Advanced Server 2.1
Compiler: Intel C++ & Fortran Compilers 7.0 for Linux64 Build 20030213
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
4 CPU machine with only 1 CPU enabled thanks to boot Linux
with option maxcpus=0 (ie=UP kernel) in elilo.conf
168.wupwise: +FDO -ipo -O3 -ansi_alias -IPF_ftacc -IPF_ft_eval_method0 -static -ftz
171.swim: +FDO -ipo -O3 (basepeak=yes)
172.mgrid: -O3 -ipo -ansi_alias -IPF_ftacc -IPF_ft_eval_method0 -ftz
173.applu: +FDO -ipo -O3 (basepeak=yes)
177.mesa: +FDO -ipo -O3 (basepeak=yes)
178.galgel: +FDO -ipo -O3 (basepeak=yes)
179.art: +FDO -ipo -O3 -ansi_alias (basepeak=yes)
183.quake: +FDO -ipo -O3 (basepeak=yes)
187.facerec: +FDO -ipo -O3 (basepeak=yes)
```



CFP2000 Result

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**Bull
NovaScale 4040**

SPECfp2000 =	1404
SPECfp_base2000 =	1391

SPEC license #:	20	Tested by:	JFL	Test date:	Feb-2003	Hardware Avail:	Apr-2003	Software Avail:	Apr-2003
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Notes/Tuning Information (Continued)

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188. ammp: +FDO -ipo -O3 (basepeak=yes)
189. lucas: -O3 -ipo -ansi_alias -IPFfltacc -IPFflt_eval_method0 -ftz
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
```