CFP2000 Result

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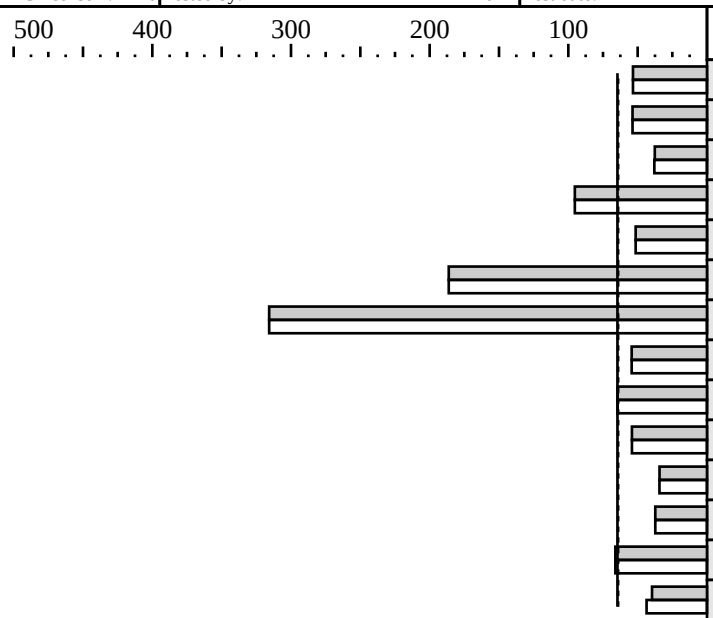
Bull
NovaScale 4040 (1500MHz)

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.ammp	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.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
```