CFP2000 Result

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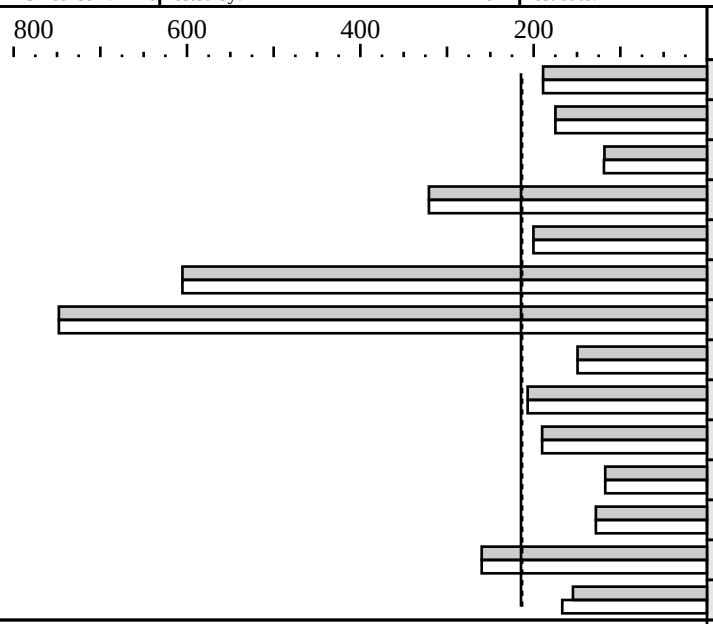
Bull
NovaScale 5160 (1500MHz)

SPECfp_rate2000 = 215

SPECfp_rate_base2000 = 213

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	16	157	189	16	157	189
171.swim	16	329	175	16	329	175
172.mgrid	16	282	118	16	281	119
173.applu	16	121	321	16	121	321
177.mesa	16	130	200	16	130	200
178.galgel	16	88.9	605	16	88.9	605
179.art	16	64.5	748	16	64.5	748
183.equake	16	162	149	16	162	149
187.facerec	16	170	207	16	170	207
188.ammp	16	215	190	16	215	190
189.lucas	16	316	117	16	316	117
191.fma3d	16	304	128	16	304	128
200.sixtrack	16	78.5	260	16	78.5	260
301.apsi	16	312	155	16	289	167

Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	4 to 16
Parallel:	No
Primary Cache:	16KBI + 16KBD on chip
Secondary Cache:	256KB(I+D) on chip
L3 Cache:	6MB (I+D) off chip
Other Cache:	N/A
Memory:	64 GB (4 *16 * 1GB DIMMs)
Disk Subsystem:	1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks
Other Hardware:	

Software

Operating System:	Linux 64 bit : Red Hat Advanced Server 2.1 + Bull expansion Pack
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:	Multi 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
```

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Notes/Tuning Information (Continued)

```
179.art: basepeak=yes
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
```