CFP2000 Result

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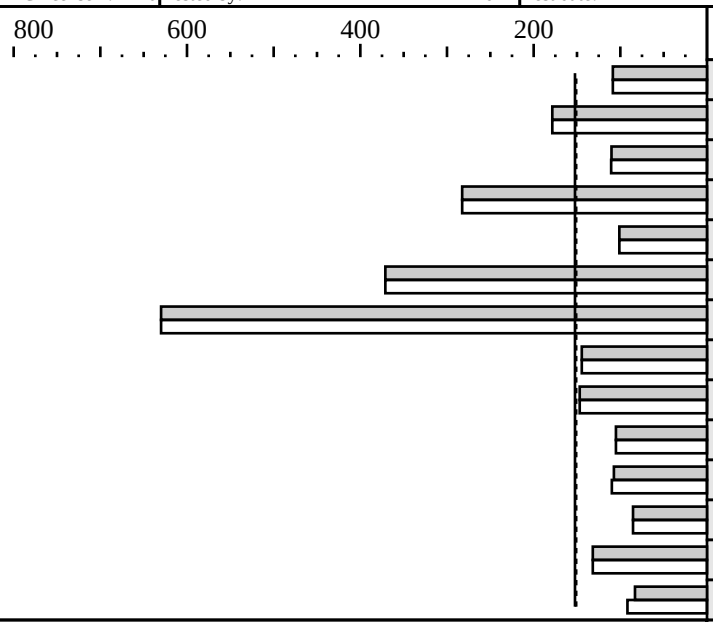
Bull
NovaScale 5160 HPC 8 way (1500MHz)

SPECfp_rate2000 = 152

SPECfp_rate_base2000 = 151

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	8	137	109	8	137	109
171.swim	8	161	178	8	161	178
172.mgrid	8	152	110	8	151	111
173.applu	8	69.0	282	8	69.0	282
177.mesa	8	128	101	8	128	101
178.galgel	8	72.5	371	8	72.5	371
179.art	8	38.3	630	8	38.3	630
183.equake	8	83.5	144	8	83.5	144
187.facerec	8	120	147	8	120	147
188.ammp	8	194	105	8	194	105
189.lucas	8	173	107	8	169	110
191.fma3d	8	228	85.4	8	228	85.4
200.sixtrack	8	77.5	132	8	77.5	132
301.apsi	8	290	83.1	8	263	91.8

Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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:	Hardware configuration: 4 modules of 2 CPUs

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

  16 CPU machine with only 8 CPU enabled
  8 CPU disabled by the service processor before booting
```