CFP2000 Result

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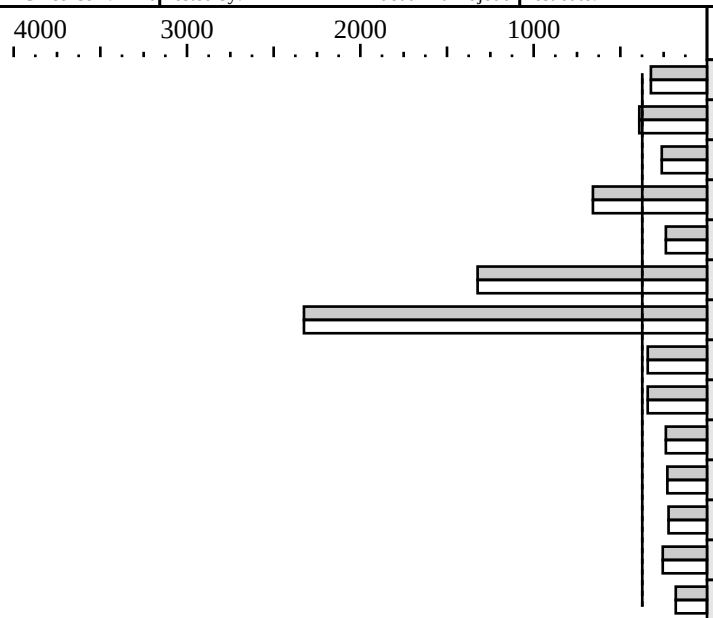
Bull
NovaScale 6320 HPC 16way (1600MHz)

SPECfp_rate2000 = 373

SPECfp_rate_base2000 = 373

SPEC license #: 20 | Tested by: Allaoua Ait Eldjoudi | Test date: Nov-2004 | Hardware Avail: Nov-2004 | Software Avail: Nov-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	16	91.8	324	16	91.8	324
171.swim	16	147	391	16	147	391
172.mgrid	16	128	261	16	128	261
173.applu	16	59.2	658	16	59.2	658
177.mesa	16	110	237	16	110	237
178.galgel	16	40.7	1323	16	40.7	1323
179.art	16	20.8	2325	16	20.8	2325
183.equake	16	70.6	342	16	70.6	342
187.facerec	16	103	342	16	103	342
188.ammp	16	172	237	16	172	237
189.lucas	16	162	229	16	162	229
191.fma3d	16	176	222	16	176	222
200.sixtrack	16	80.0	255	16	80.0	255
301.apsi	16	268	180	16	268	180

Hardware

CPU:	Itanium 2 processor 1600 MHz
CPU MHz:	1600
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, per core
Secondary Cache:	256KB(I+D) on chip, per core
L3 Cache:	9.0MB (I+D) on chip, per core
Other Cache:	N/A
Memory:	128 GB (8 * 16 * 1GB DIMMs)
Disk Subsystem:	1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks
Other Hardware:	--

Software

Operating System:	Bull Advanced Server 2 V3 (linux kernel 2.6.4, glibc 2.2.4)
Compiler:	Intel(R) Fortran Compiler for Linux 8.1 (Build 20041021) Intel(R) C++ Compiler for Linux 8.1 (Build 20041021)
File System:	ext3
System State:	Multi User

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen  PASS2=-prof_use

Baseline optimization flags:
  C programs:       -fast -ansi_alias -IPF_fp_relaxed +FDO
  Fortran programs: -fast -IPF_fp_relaxed + FDO

Portability Flags:
  178.galgel:  -FI

Peak optimization flags: basepeak=yes

32 CPU machine with only 16 CPU enabled
16 CPU disabled by service processor before booting
Processes were bound to CPUs using pexec
```