CFP2000 Result

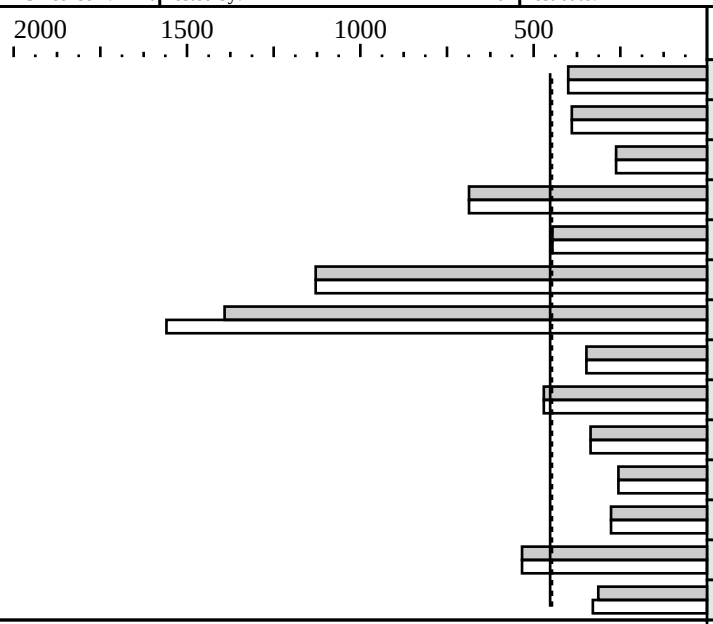
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Bull
NovaScale 6320 (1500MHz)

SPECfp_rate2000 = 452

SPECfp_rate_base2000 = 447

SPEC license #: 20 | Tested by: Bull | Test date: May-2004 | Hardware Avail: Jul-2004 | Software Avail: Jun-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	32	148	400	32	148	400
171.swim	32	295	390	32	295	390
172.mgrid	32	255	262	32	255	262
173.applu	32	114	686	32	114	686
177.mesa	32	117	446	32	117	446
178.galgel	32	95.4	1129	32	95.4	1129
179.art	32	69.4	1392	32	61.9	1559
183.equake	32	139	348	32	139	348
187.facerec	32	150	471	32	150	471
188.ammp	32	243	336	32	243	336
189.lucas	32	291	256	32	291	256
191.fma3d	32	282	277	32	282	277
200.sixtrack	32	76.5	534	32	76.5	534
301.apsi	32	308	314	32	293	329

Hardware

CPU:	Itanium 2 processor 1500 MHz
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 chips, 1 core/chip
CPU(s) orderable:	4 to 32
Parallel:	No
Primary Cache:	16KBI + 16KBD on chip per core
Secondary Cache:	256KB(I+D) on chip per core
L3 Cache:	6MB (I+D) on chip per core
Other Cache:	N/A
Memory:	128 GB (8 * 16 * 1GB DIMMs DDR 266)
Disk Subsystem:	1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks + 1 SR0812 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 8.0 (Build 20040416) Intel(R) C++ Compiler for Linux 8.0 (Build 20040416)
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

Processes were bound to CPUs using pexec

Portability Flags:
  178.galgel:  -FI

Peak optimization flags:
  191.fma3d:basepeak=yes
  171.swim: basepeak=yes
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Bull
NovaScale 6320 (1500MHz)

SPECfp_rate2000 = 452
SPECfp_rate_base2000 = 447

SPEC license #: 20 | Tested by: Bull | Test date: May-2004 | Hardware Avail: Jul-2004 | Software Avail: Jun-2004

Notes/Tuning Information (Continued)

```
172.mgrid: -O3 -ipo
173.applu: basepeak=yes
177.mesa: basepeak=yes
178.galgel: basepeak=yes
183.equake: basepeak=yes
187.facerec: basepeak=yes
188.ammp: basepeak=yes
189.lucas: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: -O3 -ipo
```