CFP2000 Result

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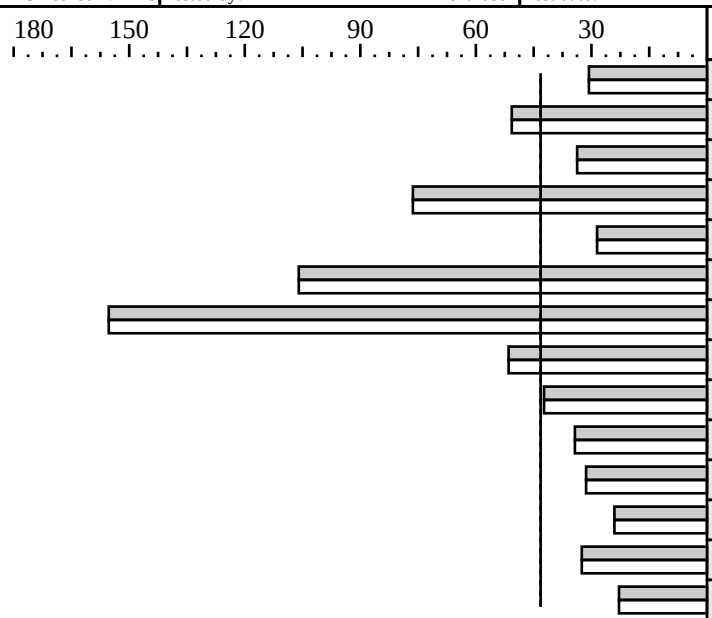
Hewlett-Packard Company

HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECfp_rate2000 = 43.2

SPECfp_rate_base2000 = 43.2

SPEC license #: 3 | Tested by: HP Richardson | Test date: Jan-2004 | Hardware Avail: Jan-2004 | Software Avail: Jan-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	121	30.7	2	121	30.7
171.swim	2	142	50.7	2	142	50.7
172.mgrid	2	124	33.7	2	124	33.7
173.applu	2	63.8	76.4	2	63.8	76.4
177.mesa	2	114	28.5	2	114	28.5
178.galgel	2	63.5	106	2	63.5	106
179.art	2	38.8	155	2	38.8	155
183.equake	2	58.5	51.5	2	58.5	51.5
187.facerec	2	104	42.3	2	104	42.3
188.ammp	2	149	34.3	2	149	34.3
189.lucas	2	148	31.4	2	148	31.4
191.fma3d	2	203	24.0	2	203	24.0
200.sixtrack	2	78.5	32.5	2	78.5	32.5
301.apsi	2	264	22.8	2	264	22.8

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	no
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (on chip) per CPU
L3 Cache:	6.0MB (on chip) per CPU
Other Cache:	N/A
Memory:	32GB (16 * 2GB DIMMs)
Disk Subsystem:	1x36GB 10k RPM SCSI disk
Other Hardware:	N/A

Software

Operating System:	Red Hat Linux Advanced Server release 2.1AS (Update 2)
Compiler:	Intel C++ Compiler 8.0 for Linux, Build 20031017 Intel Fortan Compiler 8.0 for Linux, Build 20031017
File System:	ext3
System State:	Multi-user

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen  PASS2=-prof_use
Base tuning flags:
         C programs: -O3 -ipo +FDO -ansi_alias
   Fortran programs: -O3 -ipo +FDO
Portability:
         178.galgel: -FI

Peak flags same as baseline (basepeak=true set globally)


Note:
  'ELILO boot: linux maxcpus=0' used to
  deconfigure other processors if necessary
  Kernel was built with the configuration of 64K page size.
```