CFP2000 Result

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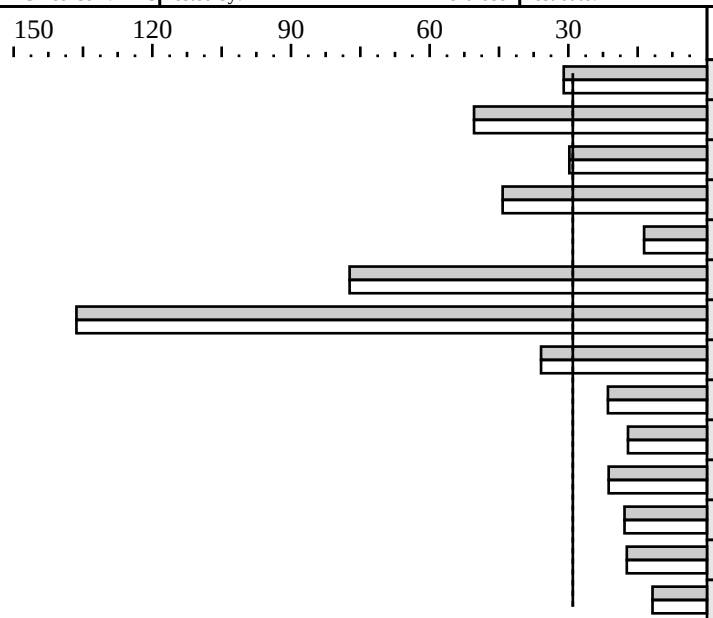
Hewlett-Packard Company

HP Integrity rx4640-8 (1.5GHz/4MB Itanium 2)

SPECfp_rate2000 = 29.0

SPECfp_rate_base2000 = 29.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	59.9	31.0	1	59.9	31.0
171.swim	1	71.3	50.4	1	71.3	50.4
172.mgrid	1	70.1	29.8	1	70.1	29.8
173.applu	1	55.1	44.2	1	55.1	44.2
177.mesa	1	119	13.6	1	119	13.6
178.galgel	1	43.5	77.3	1	43.5	77.3
179.art	1	22.1	136	1	22.1	136
183.equake	1	42.0	35.9	1	42.0	35.9
187.facerec	1	103	21.4	1	103	21.4
188.ammp	1	149	17.1	1	149	17.1
189.lucas	1	109	21.3	1	109	21.3
191.fma3d	1	137	17.8	1	137	17.8
200.sixtrack	1	73.5	17.4	1	73.5	17.4
301.apsi	1	256	11.8	1	256	11.8

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	no
Primary Cache:	16KBI + 16KBD on chip, per core
Secondary Cache:	256KB (I+D) on chip, per core
L3 Cache:	4.0MB (I+D) on chip, per core
Other Cache:	N/A
Memory:	32GB (16x2GB DIMMs)
Disk Subsystem:	1x36GB 15K SCSI
Other Hardware:	N/A

Software

Operating System:	Red Hat Linux Advanced Server release 3.0AS (Update 3)
Compiler:	Intel C++ Compiler 8.1 for Linux (Build 20041021) Intel Fortran Compiler 8.1 for Linux (Build 20041021)
File System:	ext3
System State:	Multi-user

Notes/Tuning Information

```
Base tuning flags:
        C programs: -fast -ansi_alias +FDO -IPF_fp_relaxed
   Fortran programs: -fast +FDO -IPF_fp_relaxed

Portability:
        178.galgel:  -FI
        187.facerec: srcalt=AllocShape

Peak flags same as baseline (basepeak=true set globally)
+FDO: PASS1=-prof_gen  PASS2=-prof_use

Note:
  EFI command "cpuconfig" used prior to booting to
  deconfigure other processors if necessary
```