CFP2000 Result

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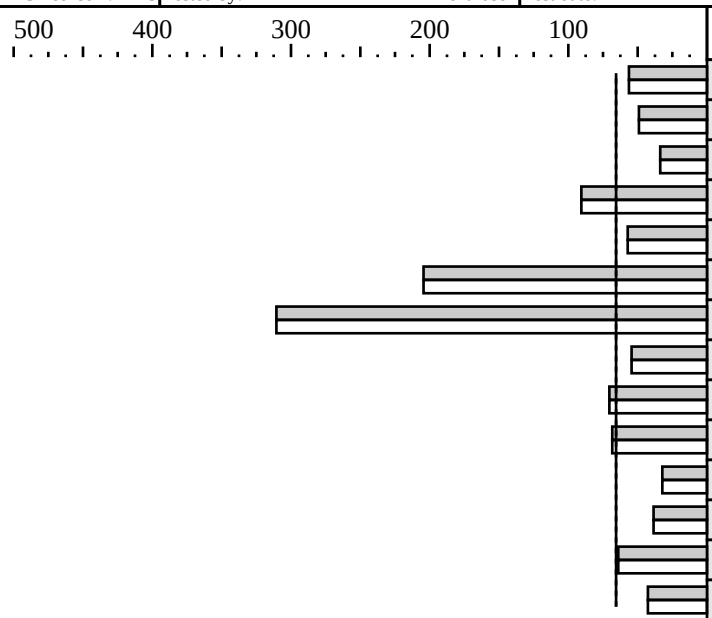
Hewlett-Packard Company

HP Integrity Server rx4640 (1500 MHz, Itanium 2)

SPECfp_rate2000 = 65.6

SPECfp_rate_base2000 = 65.6

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	4	132	56.3	4	132	56.3
171.swim	4	293	49.1	4	293	49.1
172.mgrid	4	248	33.7	4	248	33.7
173.applu	4	108	90.6	4	108	90.6
177.mesa	4	114	57.2	4	114	57.2
178.galgel	4	65.8	204	4	65.8	204
179.art	4	38.9	311	4	38.9	311
183.equake	4	111	54.4	4	111	54.4
187.facerec	4	125	70.4	4	125	70.4
188.ammp	4	149	68.3	4	149	68.3
189.lucas	4	288	32.2	4	288	32.2
191.fma3d	4	253	38.5	4	253	38.5
200.sixtrack	4	79.8	64.0	4	79.8	64.0
301.apsi	4	283	42.6	4	283	42.6

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 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.
```