CFP2000 Result

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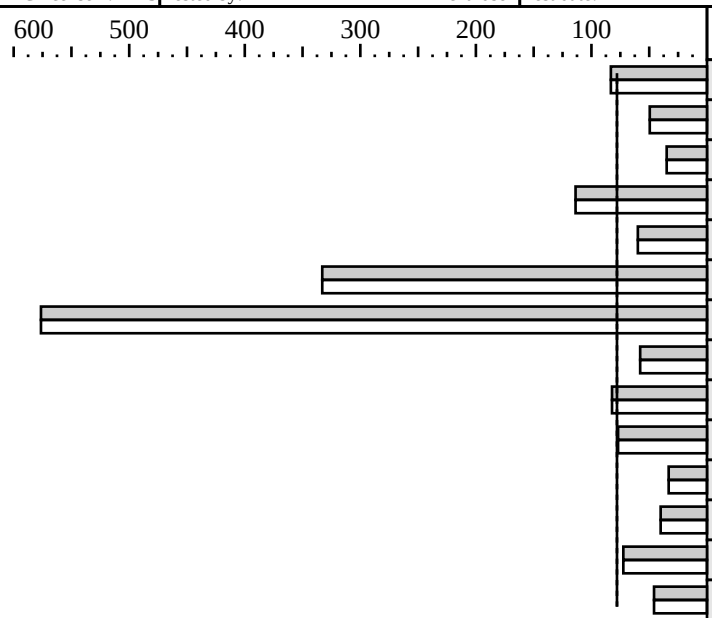
Hewlett-Packard Company

HP Integrity rx4640-8 (1.6GHz/9MB Itanium 2)

SPECfp_rate2000 = 77.9

SPECfp_rate_base2000 = 77.9

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	89.2	83.2	4	89.2	83.2
171.swim	4	290	49.5	4	290	49.5
172.mgrid	4	239	34.9	4	239	34.9
173.applu	4	85.7	114	4	85.7	114
177.mesa	4	109	59.8	4	109	59.8
178.galgel	4	40.4	333	4	40.4	333
179.art	4	20.9	576	4	20.9	576
183.equake	4	104	57.8	4	104	57.8
187.facerec	4	107	82.2	4	107	82.2
188.ammp	4	133	76.9	4	133	76.9
189.lucas	4	280	33.2	4	280	33.2
191.fma3d	4	243	40.1	4	243	40.1
200.sixtrack	4	70.5	72.4	4	70.5	72.4
301.apsi	4	263	45.8	4	263	45.8

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	4
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:	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
```