CFP2000 Result

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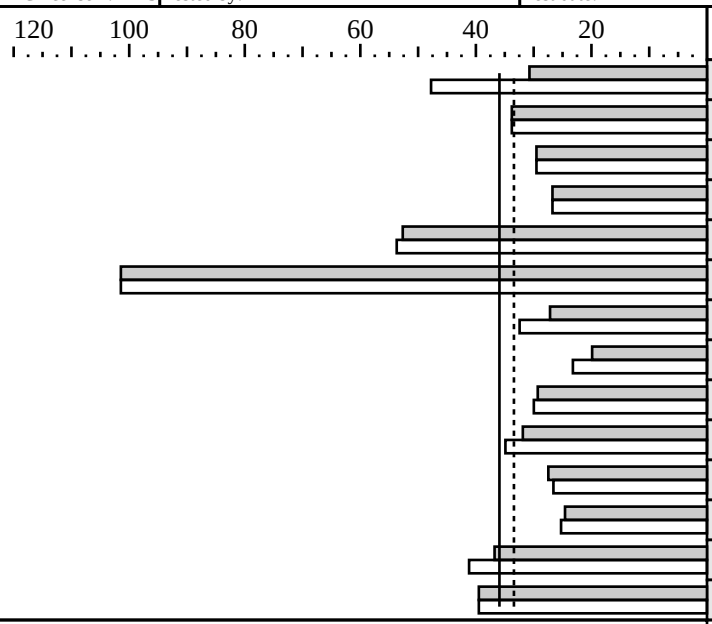
Hewlett-Packard Company
hp server rp8400

SPECfp_rate2000 = 35.9

SPECfp_rate_base2000 = 33.4

SPEC license #: 3 | Tested by: HP | Test date: Aug-2001 | Hardware Avail: Sep-2001 | Software Avail: Sep-2001



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	483	30.7	8	311	47.8
171.swim	8	852	33.8	8	852	33.8
172.mgrid	8	566	29.5	8	566	29.5
173.applu	8	729	26.7	8	729	26.7
177.mesa	8	247	52.7	8	242	53.7
178.galgel	8	265	101	8	265	101
179.art	8	888	27.2	8	744	32.4
183.equake	8	607	19.9	8	520	23.2
187.facerec	8	602	29.3	8	588	30.0
188.ammp	8	640	31.9	8	585	34.9
189.lucas	8	676	27.5	8	698	26.6
191.fma3d	8	793	24.6	8	772	25.3
200.sixtrack	8	278	36.8	8	248	41.2
301.apsi	8	611	39.5	8	611	39.5

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	2 to 16 by 2
Parallel:	No
Primary Cache:	0.75MBI + 1.5MBD on chip
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	16GB
Disk Subsystem:	8x36GB SCSI
Other Hardware:	2 cells

Software

Operating System:	B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
Compiler:	HP ANSI C 11.11.03 aC++ C.03.30.02 Fortran90 11.11.40 PHSS_24207 libm patch
File System:	Advanced JFS
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  178.galgel:  +source=fixed

Base Flags:
  f90: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD
  C:   +I/+P +O4 +Odataprefetch -Wl,-a,archive

Peak Flags:

  ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack
  168.wupwise: +cat +O3 +Odataprefetch +Onofltacc
               -Wl,+FPD -Wl,-a,archive
  171.swim:    basepeak=true
  172.mgrid:   basepeak=true
  173.applu:   basepeak=true
  177.mesa:    +I/+P +Oall +Odataprefetch +Opromote_indirect_calls
```

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Notes/Tuning Information (Continued)

```
                -Wl,+FPD -Wl,-a,archive
  178.galgel:  basepeak=true
  179.art:     +I/+P +Oall +Onodataprefetch +Onofltacc
               +Optrs_strongly_typed +Opromote_indirect_calls
               -Wl,+FPD -Wl,-a,archive
  183.equake:  +O4 +Olibcalls +Odataprefetch +Optrs_strongly_typed
               +Opromote_indirect_calls
               -Wl,+FPD -Wl,-a,archive
  187.facerec: +cat +O3 +Ofastaccess
               -Wl,+FPD -Wl,-a,archive
  188.ammp:    +I/+P +Oall +Odataprefetch +Optrs_strongly_typed
               +Opromote_indirect_calls
               -Wl,+FPD -Wl,-a,archive
  189.lucas:   +O3 +Onoinline
               -Wl,+FPD -Wl,-a,archive
  191.fma3d:   +O3 +Onolimit
               -Wl,+FPD -Wl,-a,archive
  200.sixtrack: +cat +O3 +Onolibcalls +Onolimit +Onoinline
                +Onodataprefetch
                -Wl,+FPD -Wl,-a,archive
  301.apsi:     basepeak=true

System tunables:
  vps_pagesize 4096, vps_ceiling 16384
  dbc_min_pct 20, dbc_max_pct 20
  maxdsiz 0x7b03a000, maxssiz 256000000
  boot time firmware tunable DataPrefetch enabled (default)
```