CFP2000 Result

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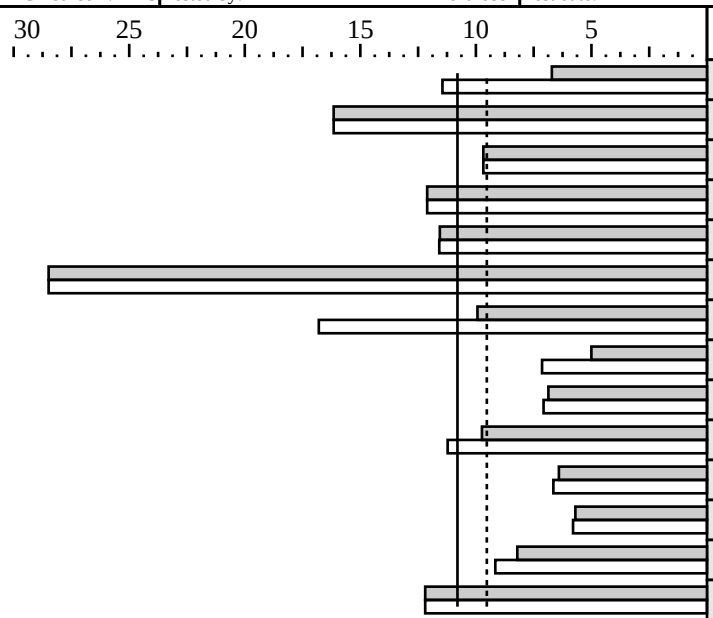
Hewlett-Packard Company
hp server rp5470

SPECfp_rate2000 = 10.8

SPECfp_rate_base2000 = 9.53

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	553	6.71	2	324	11.4
171.swim	2	445	16.2	2	445	16.2
172.mgrid	2	432	9.68	2	432	9.68
173.applu	2	402	12.1	2	402	12.1
177.mesa	2	281	11.6	2	280	11.6
178.galgel	2	236	28.5	2	236	28.5
179.art	2	607	9.93	2	359	16.8
183.equake	2	603	5.00	2	423	7.14
187.facerec	2	642	6.86	2	623	7.07
188.ammp	2	524	9.74	2	455	11.2
189.lucas	2	724	6.41	2	698	6.65
191.fma3d	2	855	5.70	2	841	5.80
200.sixtrack	2	311	8.21	2	279	9.16
301.apsi	2	495	12.2	2	495	12.2

Hardware

CPU:	PA-8700
CPU MHz:	650
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1 to 4
Parallel:	No
Primary Cache:	0.75MBI + 1.5MBD on chip
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	18GB SCSI disk
Other Hardware:	None

Software

Operating System:	B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
Compiler:	HP ANSI C 11.11.03 Fortran90 11.11.40 PHSS_24207 libm patch
File System:	HFS
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
```

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Notes/Tuning Information (Continued)

```
    177.mesa:    +I/+P +Oall +Odataprefetch +Opromote_indirect_calls
                 -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 2063835136, maxssiz 401604608
     Unused processors disabled at boot
```