CFP2000 Result

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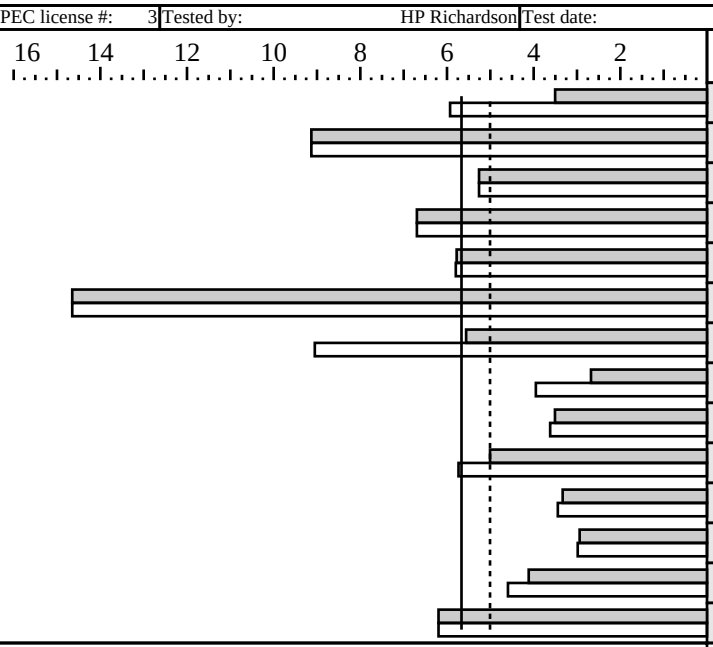
Hewlett-Packard Company
hp server rp5470

SPECfp_rate2000 = 5.67

SPECfp_rate_base2000 = 5.01

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	1	530	3.50	1	313	5.93
171.swim	1	394	9.13	1	394	9.13
172.mgrid	1	397	5.26	1	397	5.26
173.applu	1	364	6.69	1	364	6.69
177.mesa	1	281	5.78	1	280	5.80
178.galgel	1	230	14.6	1	230	14.6
179.art	1	543	5.56	1	333	9.05
183.equake	1	563	2.68	1	382	3.95
187.facerec	1	628	3.51	1	609	3.62
188.ammp	1	510	5.01	1	445	5.73
189.lucas	1	697	3.33	1	674	3.44
191.fma3d	1	829	2.94	1	817	2.98
200.sixtrack	1	310	4.11	1	278	4.59
301.apsi	1	487	6.20	1	487	6.20

Hardware

CPU:	PA-8700
CPU MHz:	650
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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
```