CFP2000 Result

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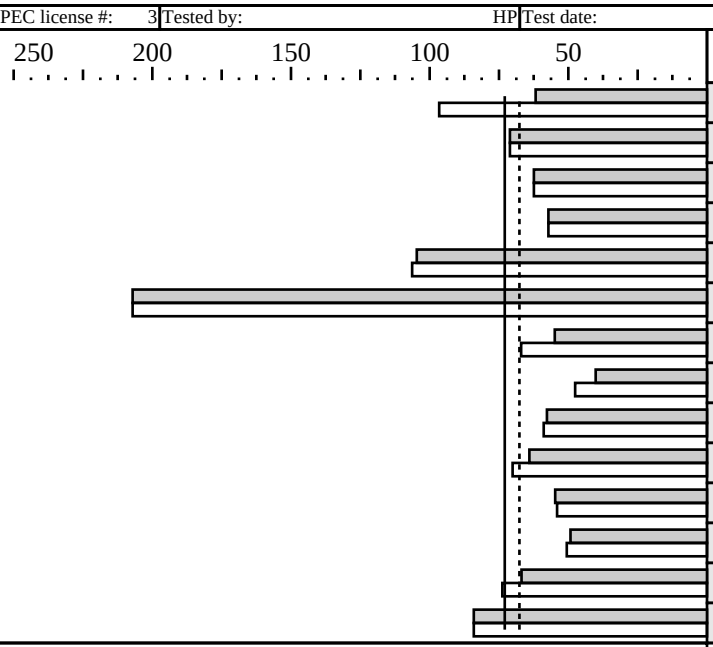
Hewlett-Packard Company

HP Superdome 16-way (750MHz PA-8700)

SPECfp_rate2000 = 72.9

SPECfp_rate_base2000 = 67.6

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	16	481	61.8	16	308	96.6
171.swim	16	810	71.1	16	810	71.1
172.mgrid	16	535	62.4	16	535	62.4
173.applu	16	682	57.2	16	682	57.2
177.mesa	16	248	105	16	244	106
178.galgel	16	260	207	16	260	207
179.art	16	879	54.9	16	720	67.0
183.equake	16	601	40.1	16	508	47.5
187.facerec	16	611	57.7	16	599	58.9
188.ammp	16	638	64.0	16	583	70.1
189.lucas	16	678	54.7	16	687	54.1
191.fma3d	16	792	49.2	16	771	50.6
200.sixtrack	16	305	66.9	16	277	73.8
301.apsi	16	574	84.1	16	574	84.1

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	2-16
Parallel:	No
Primary Cache:	0.75MBI + 1.5MBD on chip
Secondary Cache:	none
L3 Cache:	none
Other Cache:	none
Memory:	64GB
Disk Subsystem:	5x9GB Fiberchannel (striped) 1x9GB SCSI disk (root), 4x9GB FC disks (swap)
Other Hardware:	4 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:	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:

  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
  ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack

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)
```