# CFP2000 Result

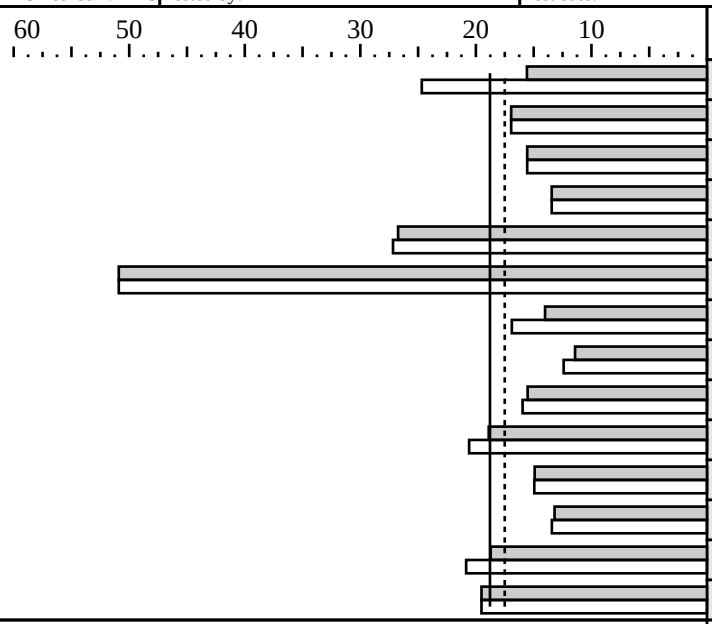
Copyright ©1999-2004, Standard Performance Evaluation Corporation

## Hewlett-Packard Company
## hp server rp8400

SPECfp_rate2000 = 18.8

SPECfp_rate_base2000 = 17.5

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 | 4 | 476 | 15.6 | 4 | 301 | 24.7 |
| 171.swim | 4 | 849 | 16.9 | 4 | 849 | 16.9 |
| 172.mgrid | 4 | 537 | 15.6 | 4 | 537 | 15.6 |
| 173.applu | 4 | 725 | 13.4 | 4 | 725 | 13.4 |
| 177.mesa | 4 | 243 | 26.7 | 4 | 239 | 27.2 |
| 178.galgel | 4 | 264 | 50.9 | 4 | 264 | 50.9 |
| 179.art | 4 | 861 | 14.0 | 4 | 714 | 16.9 |
| 183.equake | 4 | 528 | 11.4 | 4 | 486 | 12.4 |
| 187.facerec | 4 | 568 | 15.5 | 4 | 552 | 16.0 |
| 188.ammp | 4 | 540 | 18.9 | 4 | 496 | 20.6 |
| 189.lucas | 4 | 622 | 14.9 | 4 | 621 | 14.9 |
| 191.fma3d | 4 | 739 | 13.2 | 4 | 726 | 13.4 |
| 200.sixtrack | 4 | 273 | 18.7 | 4 | 245 | 20.8 |
| 301.apsi | 4 | 618 | 19.5 | 4 | 618 | 19.5 |

### Hardware

| | |
|---|---|
| CPU: | PA-8700 |
| CPU MHz: | 750 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 4 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: | 8GB |
| Disk Subsystem: | 8x36GB SCSI |
| Other Hardware: | 1 cell |

### Software

| | |
|---|---|
| Operating System: | B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches |
| Compiler: | HP ANSI C 11.11.03<br>aC++ C.03.30.02<br>Fortran90 11.11.40<br>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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation



## 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)
```