CFP2000 Result

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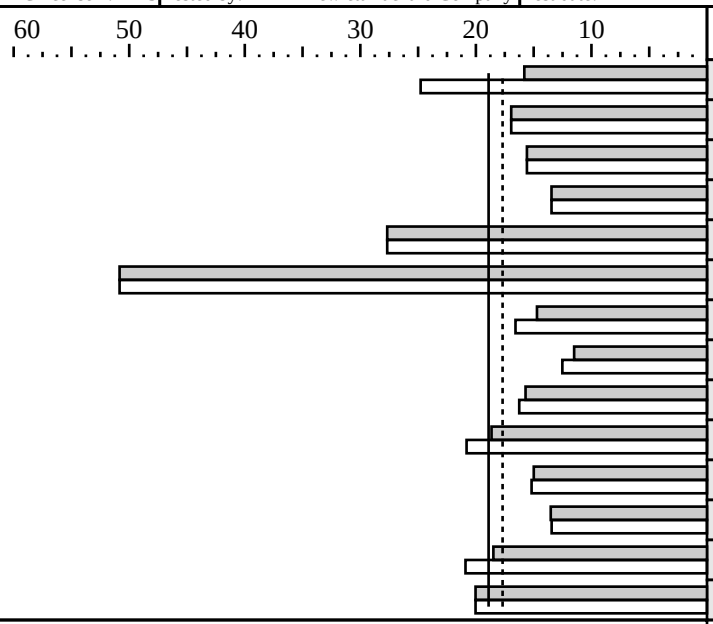
Hewlett-Packard Company
hp server rp7410

SPECfp_rate2000 = 18.9

SPECfp_rate_base2000 = 17.7

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2002 | Hardware Avail: Mar-2002 | Software Avail: Mar-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	470	15.8	4	300	24.8
171.swim	4	849	16.9	4	849	16.9
172.mgrid	4	536	15.6	4	536	15.6
173.applu	4	724	13.5	4	724	13.5
177.mesa	4	235	27.7	4	235	27.7
178.galgel	4	265	50.8	4	265	50.8
179.art	4	820	14.7	4	728	16.6
183.equake	4	525	11.5	4	482	12.5
187.facerec	4	561	15.7	4	543	16.2
188.ammp	4	547	18.6	4	491	20.8
189.lucas	4	619	15.0	4	611	15.2
191.fma3d	4	721	13.5	4	725	13.4
200.sixtrack	4	276	18.5	4	244	20.9
301.apsi	4	602	20.0	4	602	20.0

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	2 to 8 by 2
Parallel:	No
Primary Cache:	0.75MB(I) + 1.5MB(D) on chip
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	8GB (16x512MB DIMMs)
Disk Subsystem:	2x18 GB SCSI
Other Hardware:	--

Software

Operating System:	HP-UX 11i TCOE B.11.11.0203
Compiler:	HP ANSI C 11.11.04 Fortran90 11.11.48 PHSS_24207 libm patch
File System:	VxFS
System State:	Multi-user

Notes/Tuning Information

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

Baseline compile flags:
  fortran: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD
  C      : +I/+P +O4 +Odataprefetch -Wl,-a,archive

Peak compile flags:
  168.wupwise: (ONESTEP) +cat +O3 +Odataprefetch +Onofltacc
               -Wl,+FPD -Wl,-a,archive
  171.swim: basepeak=true
  172.mgrid: basepeak=true
  173.applu: basepeak=true
  177.mesa: basepeak=true
  178.galgel: basepeak=true
  179.art: +I/+P +Oall +Onodataprefetch +Onofltacc +Optrs_strongly_typed
```

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Notes/Tuning Information (Continued)

```
            +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: (ONESTEP) +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: (ONESTEP) +cat +O3 +Onolibcalls +Onolimit +Onoinline
                +Onodataprefetch -Wl,+FPD -Wl,-a,archive
  301.apsi: basepeak=true

Hardware configuration notes:

  System was configured as a single partition with 1 cell
  firmware tunable DataPrefetch enabled (default)

Operating system configuration notes:

  vps_pagesize 4096, vps_ceiling 16384
  maxdsiz 0x80000000, maxssiz 0x10000000
  maxdsiz_64bit 0x400000000, maxssiz_64bit 0x40000000
```