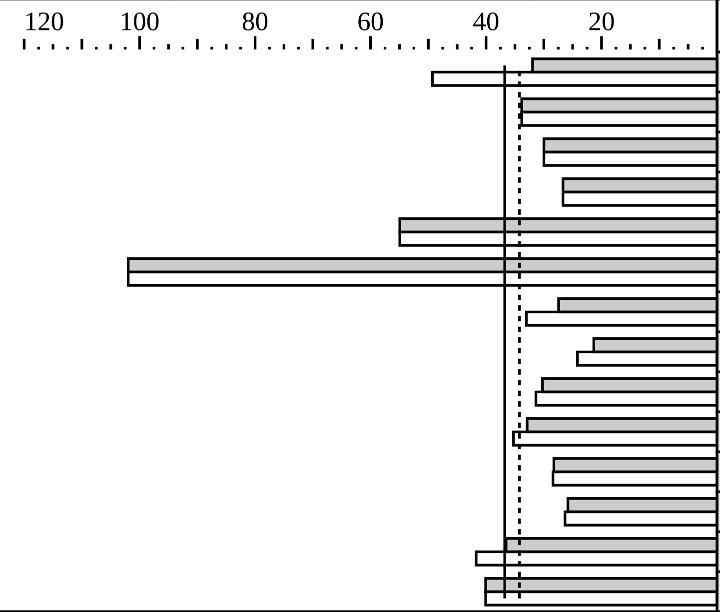
CFP2000 Result

Hewlett-Packard Company
hp server rp7410

SPECfp_rate2000 = 36.8
SPECfp_rate_base2000 = 34.2

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	8	465	31.9	8	301	49.3
171.swim	8	851	33.8	8	851	33.8
172.mgrid	8	557	30.0	8	557	30.0
173.applu	8	730	26.7	8	730	26.7
177.mesa	8	236	54.9	8	236	54.9
178.galgel	8	264	102	8	264	102
179.art	8	879	27.4	8	731	33.0
183.equake	8	565	21.3	8	499	24.2
187.facerec	8	583	30.2	8	562	31.4
188.ammp	8	621	32.9	8	579	35.3
189.lucas	8	657	28.3	8	653	28.4
191.fma3d	8	755	25.8	8	740	26.3
200.sixtrack	8	279	36.5	8	245	41.7
301.apsi	8	602	40.1	8	602	40.1

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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:	16GB (32x512MB 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 2 cells
    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
```