



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.amp	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 +Odataprefetch +Onofltacc +Optrs_strongly_typed



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Notes/Tuning Information (Continued)

```
+Opromote_indirect_calls -Wl,+FPD -Wl,-a,archive
183.quake: +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.ampp: +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
```