



CFP2000 Result

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Hewlett-Packard Company
hp server rp5470

SPECfp_rate2000 = 10.8

SPECfp_rate_base2000 = 9.53

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	553	6.71	2	324	11.4
171.swim	2	445	16.2	2	445	16.2
172.mgrid	2	432	9.68	2	432	9.68
173.applu	2	402	12.1	2	402	12.1
177.mesa	2	281	11.6	2	280	11.6
178.galgel	2	236	28.5	2	236	28.5
179.art	2	607	9.93	2	359	16.8
183.equake	2	603	5.00	2	423	7.14
187.facerec	2	642	6.86	2	623	7.07
188.amp	2	524	9.74	2	455	11.2
189.lucas	2	724	6.41	2	698	6.65
191.fma3d	2	855	5.70	2	841	5.80
200.sixtrack	2	311	8.21	2	279	9.16
301.apsi	2	495	12.2	2	495	12.2

Hardware

CPU: PA-8700
CPU MHz: 650
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1 to 4
Parallel: No
Primary Cache: 0.75MBI + 1.5MBD on chip
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 18GB SCSI disk
Other Hardware: None

Software

Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
Compiler: HP ANSI C 11.11.03
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:

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



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Notes/Tuning Information (Continued)

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177.mesa: +I/+P +Oall +Odataprefetch +Opromote_indirect_calls
          -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.quake: +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 2063835136, maxssiz 401604608
Unused processors disabled at boot

```