



CFP2000 Result

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Hewlett-Packard Company
hp server rp5470

SPECfp_rate2000 = 19.9

SPECfp_rate_base2000 = 17.8

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	4	530	14.0	4	316	23.5
171.swim	4	774	18.6	4	774	18.6
172.mgrid	4	551	15.2	4	551	15.2
173.applu	4	589	16.5	4	589	16.5
177.mesa	4	247	26.3	4	247	26.3
178.galgel	4	246	54.7	4	246	54.7
179.art	4	640	18.9	4	410	29.4
183.equake	4	646	9.34	4	483	12.5
187.facerec	4	604	14.6	4	585	15.1
188.amp	4	488	20.9	4	432	23.6
189.lucas	4	775	12.0	4	748	12.4
191.fma3d	4	848	11.5	4	833	11.7
200.sixtrack	4	275	18.6	4	245	20.8
301.apsi	4	485	24.9	4	485	24.9

Hardware

CPU: PA-8700
 CPU MHz: 750
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 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

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