



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp_rate2000 = 5.67
SPECfp_rate_base2000 = 4.99

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	529	3.51	1	314	5.92
171.swim	1	393	9.15	1	393	9.15
172.mgrid	1	396	5.27	1	396	5.27
173.applu	1	363	6.70	1	363	6.70
177.mesa	1	280	5.80	1	279	5.83
178.galgel	1	229	14.7	1	229	14.7
179.art	1	575	5.24	1	337	8.96
183.quake	1	564	2.67	1	384	3.92
187.facerec	1	630	3.50	1	611	3.61
188.amp	1	510	5.00	1	445	5.73
189.lucas	1	691	3.36	1	666	3.48
191.fma3d	1	829	2.94	1	815	2.99
200.sixtrack	1	310	4.12	1	278	4.59
301.apsi	1	485	6.21	1	485	6.21

Hardware	Software
CPU: PA-8700 CPU MHz: 650 FPU: Integrated CPU(s) enabled: 1 core, 1 chip, 1 core/chip CPU(s) orderable: 1 to 8 Parallel: No Primary Cache: 0.75MBI + 1.5MBD on chip Secondary Cache: None L3 Cache: None Other Cache: None Memory: 16GB Disk Subsystem: 2x9GB SCSI disk Other Hardware: None	Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches Compiler: HP ANSI C 11.11.03 aC++ C.03.30.02 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

```