



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp_rate2000 = 10.4
SPECfp_rate_base2000 = 9.26

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	2	553	6.71	2	327	11.4
171.swim	2	538	13.4	2	538	13.4
172.mgrid	2	463	9.02	2	463	9.02
173.applu	2	478	10.2	2	478	10.2
177.mesa	2	280	11.6	2	279	11.7
178.galgel	2	243	27.7	2	243	27.7
179.art	2	575	10.5	2	392	15.4
183.quake	2	600	5.02	2	429	7.03
187.facerec	2	637	6.92	2	619	7.12
188.amp	2	518	9.86	2	451	11.3
189.lucas	2	724	6.41	2	699	6.64
191.fma3d	2	853	5.71	2	844	5.77
200.sixtrack	2	311	8.20	2	279	9.14
301.apsi	2	504	12.0	2	504	12.0

Hardware

CPU: PA-8700
CPU MHz: 650
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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

Software

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

```