



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp_rate2000 = 6.08

SPECfp_rate_base2000 = 5.38

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	481	3.86	1	285	6.52
171.swim	1	393	9.16	1	393	9.16
172.mgrid	1	384	5.44	1	384	5.44
173.applu	1	355	6.86	1	355	6.86
177.mesa	1	245	6.62	1	244	6.66
178.galgel	1	211	15.9	1	211	15.9
179.art	1	520	5.80	1	322	9.38
183.equake	1	545	2.77	1	376	4.01
187.facerec	1	568	3.88	1	549	4.02
188.amp	1	466	5.47	1	408	6.26
189.lucas	1	666	3.48	1	642	3.61
191.fma3d	1	770	3.17	1	760	3.20
200.sixtrack	1	270	4.72	1	242	5.26
301.apsi	1	440	6.85	1	440	6.85

Hardware

CPU: PA-8700
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1-8
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:

168.wupwise: +cat +O3 +Odataprefetch +Onofltacc
-Wl,+FPD -Wl,-a,archive
171.swim: basepeak=true
172.mgrid: basepeak=true
173.applu: basepeak=true
177.mesa: +I/+P +Oall +Odataprefetch +Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive



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Notes/Tuning Information (Continued)

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178.galgel: basepeak=true
179.art: +I/+P +Oall +Odataprefetch +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.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: +cat +O3 +Onolibcalls +Onolimit +Onoinline
        +Odataprefetch
        -Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true
ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack

```

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

```