



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp_rate2000 = 20.5
SPECfp_rate_base2000 = 18.4

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	4	524	14.2	4	314	23.6
171.swim	4	679	21.2	4	679	21.2
172.mgrid	4	506	16.5	4	506	16.5
173.applu	4	566	17.2	4	566	17.2
177.mesa	4	246	26.4	4	245	26.5
178.galgel	4	238	56.4	4	238	56.4
179.art	4	630	19.1	4	423	28.5
183.equake	4	634	9.51	4	474	12.7
187.facerec	4	600	14.7	4	583	15.1
188.amp	4	488	20.9	4	430	23.7
189.lucas	4	732	12.7	4	706	13.1
191.fma3d	4	837	11.6	4	831	11.7
200.sixtrack	4	274	18.6	4	244	20.9
301.apsi	4	475	25.4	4	475	25.4

Hardware

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

```