



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp_rate2000 = 32.1
SPECfp_rate_base2000 = 29.6

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	8	561	26.5	8	367	40.4
171.swim	8	1266	22.7	8	1266	22.7
172.mgrid	8	871	19.2	8	871	19.2
173.applu	8	1031	18.9	8	1031	18.9
177.mesa	8	252	51.5	8	246	52.8
178.galgel	8	308	87.5	8	308	87.5
179.art	8	748	32.3	8	604	39.9
183.equake	8	754	16.0	8	637	18.9
187.facerec	8	641	27.5	8	623	28.3
188.amp	8	509	40.1	8	454	45.0
189.lucas	8	877	21.2	8	852	21.8
191.fma3d	8	944	20.6	8	939	20.8
200.sixtrack	8	279	36.6	8	248	41.1
301.apsi	8	547	44.1	8	547	44.1

Hardware

CPU: PA-8700
 CPU MHz: 750
 FPU: Integrated
 CPU(s) enabled: 8 cores, 8 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.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

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