



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp_rate2000 = 30.5

SPECfp_rate_base2000 = 28.1

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	8	607	24.5	8	388	38.3
171.swim	8	1269	22.7	8	1269	22.7
172.mgrid	8	871	19.2	8	871	19.2
173.applu	8	1033	18.9	8	1033	18.9
177.mesa	8	285	45.7	8	280	46.4
178.galgel	8	326	82.6	8	326	82.6
179.art	8	772	31.2	8	607	39.7
183.equake	8	766	15.8	8	643	18.8
187.facerec	8	694	25.4	8	674	26.2
188.amp	8	552	37.0	8	490	41.6
189.lucas	8	897	20.7	8	869	21.4
191.fma3d	8	988	19.7	8	983	19.8
200.sixtrack	8	316	32.3	8	284	35.9
301.apsi	8	583	41.4	8	583	41.4

Hardware

CPU: PA-8700
 CPU MHz: 650
 FPU: Integrated
 CPU(s) enabled: 8 cores, 8 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

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System tunables:

```

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 2063835136, maxssiz 401604608

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