



CFP2000 Result

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Hewlett-Packard Company
hp server rp7400

SPECfp2000 = 524

SPECfp_base2000 = 464

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	481	333	285	562
171.swim	3100	393	790	393	790
172.mgrid	1800	384	469	384	469
173.applu	2100	355	591	355	591
177.mesa	1400	245	570	244	574
178.galgel	2900	211	1374	211	1374
179.art	2600	520	500	322	808
183.quake	1300	545	239	376	346
187.facerec	1900	568	334	549	346
188.amp	2200	466	472	408	539
189.lucas	2000	666	300	642	312
191.fma3d	2100	770	273	760	276
200.sixtrack	1100	270	407	242	454
301.apsi	2600	440	591	440	591

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.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

```