



CFP2000 Result

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Hewlett-Packard Company
HP 9000 Model L3000

SPECfp_rate2000 = 4.36

SPECfp_rate_base2000 = 4.01

SPEC license #: 3 Tested by: HP Richardson, TX Test date: Nov-2000 Hardware Avail: Nov-2000 Software Avail: Jan-2001

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise | 1 | 503 | 3.69 | 1 | 407 | 4.56 |
| 171.swim | 1 | 480 | 7.48 | 1 | 467 | 7.70 |
| 172.mgrid | 1 | 433 | 4.82 | 1 | 433 | 4.82 |
| 173.applu | 1 | 401 | 6.07 | 1 | 401 | 6.07 |
| 177.mesa | 1 | 483 | 3.36 | 1 | 483 | 3.36 |
| 178.galgel | 1 | 612 | 5.49 | 1 | 589 | 5.71 |
| 179.art | 1 | 735 | 4.11 | 1 | 550 | 5.49 |
| 183.quake | 1 | 587 | 2.57 | 1 | 403 | 3.74 |
| 187.facerec | 1 | 837 | 2.63 | 1 | 828 | 2.66 |
| 188.amp | 1 | 625 | 4.08 | 1 | 573 | 4.45 |
| 189.lucas | 1 | 735 | 3.16 | 1 | 689 | 3.37 |
| 191.fma3d | 1 | 893 | 2.73 | 1 | 893 | 2.73 |
| 200.sixtrack | 1 | 396 | 3.22 | 1 | 353 | 3.61 |
| 301.apsi | 1 | 517 | 5.84 | 1 | 540 | 5.58 |

Hardware

CPU: 550 MHz PA-8600
 CPU MHz: 550
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-4
 Parallel: No
 Primary Cache: 512KBI+1MBD (on chip)
 Secondary Cache: none
 L3 Cache: none
 Other Cache: None
 Memory: 8GB
 Disk Subsystem: 2x36 GB 10000RPM
 Other Hardware: --

Software

Operating System: HP-UX B.11.0
 Compiler: HP92453-01 A.11.01.20 HP C Compiler
 HP-UX f90 20001003 (213450) PHSS_22539 B.11.01.25
 HP MLIB Math Library B.07.00
 File System: HP-UX HFS
 System State: Multi-user

Notes/Tuning Information

Portability flags:

178.galgel: +source=fixed

188.amp: -DSPEC_CPU2000

Compiler invoked in extended ANSI mode: cc -Ae

Base flags:

f90: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD

cc: +Oall +Odataprefetch -Wl,-a,archive +I/+P

Peak flags:

Peak flags = base flags for 172.mgrid, 173.applu, 177.mesa and 191.fma3d

168.wupwise: +O3 +Onofltacc +cat -Wl,+FPD -Wl,-a,archive

171.swim: +O3 +Onolimit +Oinlinebudget=1000 -Wl,+FPD -Wl,-a,archive

172.mgrid: basepeak

173.applu: basepeak

177.mesa: basepeak

178.galgel: +Oall +fastallocatable -Wl,+FPD -Wl,-a,archive -llapack

RM_SOURCES = lapak.f90

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Notes/Tuning Information (Continued)

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179.art: +Oall +Odataprefetch +Onofltacc +Optrs_strongly_typed
        -Wl,+FPD -Wl,-a,archive +I/+P
183.equake: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive
187.facerec: +O2 +Ofastaccess +fastallocatable -Wl,+FPD -Wl,-a,archive
        -Wl,/opt/langtools/lib/fastmem.o
188.ammp: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD
        -Wl,-a,archive +I/+P
189.lucas: +O3 +Onoinline -Wl,+FPD -Wl,-a,archive
191.fma3d: basepeak
200.sixtrack: +O3 +Onoinline +Onolimit +Onolibcalls +Onodataprefetch -Wl,+FPD
        -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
301.apsi: +O3 +Onodataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive

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Kernel tunables:

vps_pagesize=4096, vps_ceiling=16384, maxdsiz=0X04000000, maxssiz=0X10000000, dbc_max_pct=10, dbc_min_pct=10

Unused processors disabled at boot

Event Monitoring System disabled.