



CFP2000 Result

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Hewlett-Packard Company
hp workstation j6700

SPECfp_rate2000 = 10.5
SPECfp_rate_base2000 = 9.76

SPEC license #: 3 Tested by: HP Fort Collins, CO Test date: Mar-2001 Hardware Avail: Jul-2001 Software Avail: Jul-2001

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise | 2 | 393 | 9.46 | 2 | 295 | 12.6 |
| 171.swim | 2 | 756 | 9.52 | 2 | 756 | 9.52 |
| 172.mgrid | 2 | 489 | 8.54 | 2 | 482 | 8.66 |
| 173.applu | 2 | 616 | 7.91 | 2 | 616 | 7.91 |
| 177.mesa | 2 | 310 | 10.5 | 2 | 305 | 10.7 |
| 178.galgel | 2 | 251 | 26.8 | 2 | 251 | 26.8 |
| 179.art | 2 | 600 | 10.1 | 2 | 500 | 12.1 |
| 183.quake | 2 | 423 | 7.13 | 2 | 368 | 8.20 |
| 187.facerec | 2 | 554 | 7.96 | 2 | 515 | 8.55 |
| 188.amp | 2 | 473 | 10.8 | 2 | 422 | 12.1 |
| 189.lucas | 2 | 592 | 7.84 | 2 | 580 | 8.00 |
| 191.fma3d | 2 | 647 | 7.53 | 2 | 629 | 7.74 |
| 200.sixtrack | 2 | 280 | 9.12 | 2 | 244 | 10.4 |
| 301.apsi | 2 | 480 | 12.6 | 2 | 480 | 12.6 |

Hardware

CPU: PA-8700
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 2
Parallel: --
Primary Cache: 768KBI + 1536KBD (on chip)
Secondary Cache: none
L3 Cache: none
Other Cache: none
Memory: 1GB
Disk Subsystem: 1 x 18 GB LVD
Other Hardware: --

Software

Operating System: HP-UX 11.0
Compiler: HP ANSI C 11.11.02
HP Fortran90 B.11.01.40
File System: HP-UX VxFS
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 same as base for 173.applu, 178.galgel, 301.apsi

Peak Flags:

All: -Wl,+FPD -Wl,-a,archive

168.wupwise: +cat +O3 +Odataprefetch +Onofltacc

171.swim: +O3 +Onolimit +Oinline_budget=1000

172.mgrid: +O3 +Ocache_pad_common +Oloop_unroll=6
+Oinline_budget=10

177.mesa: +I/+P +Oall +Odataprefetch +Opromote_indirect_calls

179.art: +I/+P +Oall +Onodataprefetch +Onofltacc
+Optrs_strongly_typed +Opromote_indirect_calls

183.quake: +O4 +Olibcalls +Odataprefetch +Optrs_strongly_typed
+Opromote_indirect_calls



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Notes/Tuning Information (Continued)

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187.facerec: +cat +O3 +Ofastaccess
188.ammf:    +I/+P +Oall +Odataprefetch +Optrs_strongly_typed
            +Opromote_indirect_calls
189.lucas:  +O3 +Onoinline
191.fma3d:  +O3 +Onolimit
200.sixtrack: +cat +O3 +Onolibcalls +Onolimit +Onoinline
            +Onodataprefetch
ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack
System tunables:
vps_pagesize 4096, vps_ceiling 4096
dbc_min_pct 15, dbc_max_pct 15
```