



CFP2000 Result

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Hewlett-Packard Company
hp workstation c3700

SPECfp_rate2000 = 6.68

SPECfp_rate_base2000 = 6.10

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	1	365	5.09	1	269	6.89
171.swim	1	398	9.04	1	387	9.28
172.mgrid	1	340	6.13	1	336	6.21
173.applu	1	324	7.53	1	324	7.53
177.mesa	1	310	5.23	1	305	5.32
178.galgel	1	196	17.1	1	196	17.1
179.art	1	424	7.12	1	337	8.96
183.quake	1	340	4.44	1	256	5.90
187.facerec	1	528	4.17	1	489	4.51
188.amp	1	441	5.78	1	385	6.63
189.lucas	1	490	4.73	1	478	4.86
191.fma3d	1	580	4.20	1	564	4.32
200.sixtrack	1	277	4.60	1	242	5.27
301.apsi	1	408	7.40	1	408	7.40

Hardware

CPU: PA-8700
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 768KBI + 1536KBD (on chip)
Secondary Cache: none
L3 Cache: none
Other Cache: none
Memory: 512MB
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

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Notes/Tuning Information (Continued)

```
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
187.facerec: +cat +O3 +Ofastaccess
188.ammmp: +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
```