CFP2000 Result

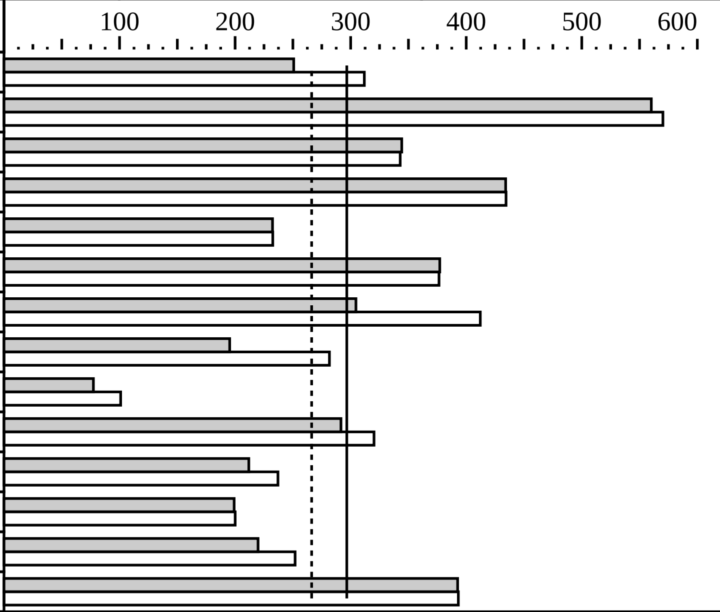
Hewlett-Packard Company
HP 9000 Model N4000

SPECfp2000 = 297

SPECfp_base2000 = 266

SPEC license #: 3	Tested by: Hewlett-Packard Company	Test date: Nov-1999	Hardware Avail: Nov-1999	Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	638	251	513	312
171.swim	3100	553	560	544	570
172.mgrid	1800	523	344	525	343
173.applu	2100	484	434	483	434
177.mesa	1400	602	232	602	233
178.galgel	2900	769	377	770	376
179.art	2600	854	305	631	412
183.equake	1300	666	195	462	282
187.facerec	1900	2456	77.4	1882	101
188.ammp	2200	754	292	687	320
189.lucas	2000	944	212	844	237
191.fma3d	2100	1054	199	1050	200
200.sixtrack	1100	500	220	437	252
301.apsi	2600	662	393	661	393



Hardware

CPU:	440 MHz PA-RISC 8600
CPU MHz:	440
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	max config 8 CPUs
Parallel:	--
Primary Cache:	512KBI+1MBD
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	8GB
Disk Subsystem:	1 9GB Ultra-SCSI 7200 rpm
Other Hardware:	--

Software

Operating System:	HP-UX B.11.00
Compiler:	HP-UX f77 971027 (162928) B.11.00.01
File System:	HP-UX VxFS
System State:	Multi-user

Notes/Tuning Information

```
Portability flags:
cc: -Ae
168.wupwise: -K
178.galgel: +source=fixed

Base Flags:
f90: +O3   +Odataprefetch +Onofltacc -Wl,+FPD
cc: +Oall +Odataprefetch -Wl,-a,archive +I/+P

Peak flags:
168.wupwise: f77 +DA2.0 +DS2.0 +O4 +Odataprefetch +Onofltacc
171.swim: f77 +DA2.0 +DS2.0 +O4 +Odataprefetch +Ocachepadcommon +Oloop_unroll
172.mgrid: base #basepeak=true
173.applu: base #basepeak=true
177.mesa: base #basepeak=true
178.galgel:base #basepeak=true
179.art: +Oall +Odataprefetch +Onofltacc +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive +I/+P
```

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Notes/Tuning Information (Continued)

```
183.equake: +Oall +Odataprefetch +Optrs_strongly_typed
187.facerec: +O2 +Ofastaccess +Omultiprocessor -Wl,+FPD -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
188.ammp: +Oall +Odataprefetch +Optrs_strongly_typed +I/+P
189.lucas: +O3 +Odataprefetch +Onofltacc +Omultiprocessor
191.fma3d: base #basepeak=true
200.sixtrack: f90 +Oall +Ofastaccess +Oloop_block +Omultiprocessor +Onofltacc
              LIBS = -Wl,+FPD -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
301.apsi: base #basepeak=true
```