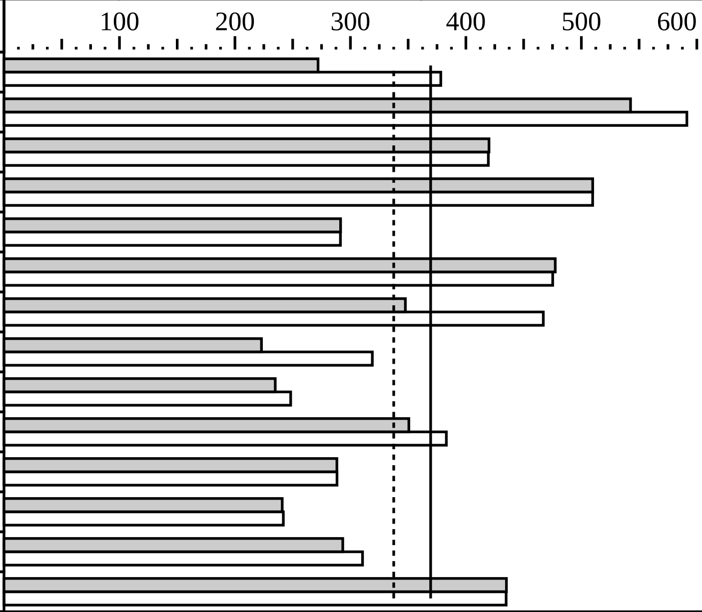
CFP2000 Result

Hewlett-Packard Company
HP 9000 Model N4000

SPECfp2000 = 369
SPECfp_base2000 = 338

SPEC license #:	Tested by:	Test date:	Hardware Avail:	Software Avail:
3	HP Richardson, TX	Mar-2000	Apr-2000	Apr-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	588	272	423	378
171.swim	3100	571	543	524	591
172.mgrid	1800	429	420	429	419
173.applu	2100	412	510	412	510
177.mesa	1400	480	291	481	291
178.galgel	2900	607	477	610	475
179.art	2600	748	348	557	467
183.equake	1300	583	223	408	319
187.facerec	1900	809	235	765	248
188.ammp	2200	627	351	574	383
189.lucas	2000	694	288	694	288
191.fma3d	2100	872	241	868	242
200.sixtrack	1100	375	293	354	310
301.apsi	2600	598	435	598	435



Hardware

CPU:	552 MHz PA-RISC 8600
CPU MHz:	552
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1-8
Parallel:	--
Primary Cache:	512KBI+1MBD (on chip)
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	8GB
Disk Subsystem:	1x9GB FC 10,000 rpm
Other Hardware:	--

Software

Operating System:	HP-UX B.11.00
Compiler:	HP92453-01 A.11.01.02 HP C Compiler HP-UX f90 19990722 (140507) B.11.01.08 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   +Onofltacc -Wl,-a,archive -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: +O3 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
173.applu: +O3 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
177.mesa: +I/+P +Oall +Odataprefetch -Wl,+FPD -Wl,-a,archive
178.galgel: +O3 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
179.art: +Oall +Odataprefetch +Onofltacc +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive +I/+P
```

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SPEC license #:	3	Tested by:	HP Richardson, TX	Test date:	Mar-2000	Hardware Avail:	Apr-2000	Software Avail:	Apr-2000

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: +O3 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
200.sixtrack: f90 +Oall +Ofastaccess +Oloop_block +Omultiprocessor +Onofltacc
              LIBS = -Wl,+FPD -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
301.apsi: +O3 +Odataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive
Kernel Tunables:
vps_pagesize=256, vps_ceiling=256
```