



CFP2000 Result

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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.earthquake	1300	666	195	462	282	
187.facerec	1900	2456	77.4	1882	101	
188.amp	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)

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183.quake: +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
```