CFP2000 Result

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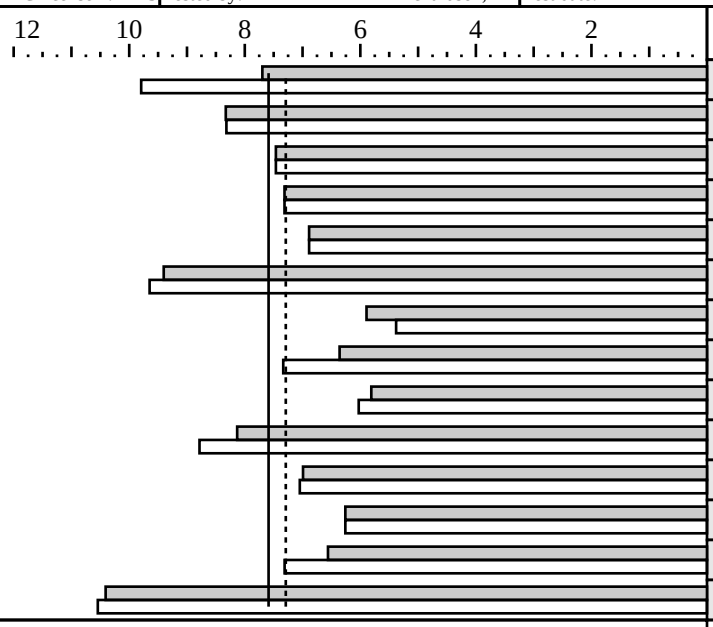
Hewlett-Packard Company
HP 9000 Model A500

SPECfp_rate2000 = 7.59

SPECfp_rate_base2000 = 7.29

SPEC license #: 3 | Tested by: HP Richardson, TX | Test date: Oct-2000 | Hardware Avail: Nov-2001 | Software Avail: Jan-2001



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	482	7.70	2	379	9.79
171.swim	2	864	8.33	2	865	8.32
172.mgrid	2	560	7.46	2	560	7.46
173.applu	2	666	7.31	2	666	7.31
177.mesa	2	472	6.89	2	472	6.89
178.galgel	2	716	9.40	2	697	9.65
179.art	2	1024	5.89	2	1121	5.38
183.equake	2	474	6.36	2	411	7.33
187.facerec	2	759	5.81	2	731	6.03
188.ammp	2	628	8.13	2	581	8.78
189.lucas	2	664	6.99	2	658	7.05
191.fma3d	2	778	6.26	2	778	6.26
200.sixtrack	2	389	6.56	2	349	7.31
301.apsi	2	580	10.4	2	572	10.5

Hardware

CPU:	550 MHz PA-8600
CPU MHz:	550
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	--
Primary Cache:	512KBI+1MBD (on chip)
Secondary Cache:	none
L3 Cache:	none
Other Cache:	None
Memory:	8GB
Disk Subsystem:	2x18 GB 10000RPM
Other Hardware:	--

Software

Operating System:	HP-UX B.11.0
Compiler:	HP92453-01 A.11.01.20 HP C Compiler HP-UX f90 20000928 (181730) B.11.01.25 HP-UX f90 20001003 (213450) PHSS_22539 B.11.01.25 HP MLIB Math Library B.07.00
File System:	HP-UX VxFS
System State:	Multi-user

Notes/Tuning Information

```
Portability flags:
        cc: -Ae
178.galgel: +source=fixed
  188.ammp: -DSPEC_CPU2000

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

Peak flags:
Peak flags = base flags for 172.mgrid, 173.applu, 177.mesa and 191.fma3d
 168.wupwise: +O3 +Onofltacc +cat -Wl,+FPD -Wl,-a,archive
    171.swim: +O3 +Onolimit +Oinlinebudget=1000 -Wl,+FPD -Wl,-a,archive
   172.mgrid: basepeak
   173.applu: basepeak
    177.mesa: basepeak
  178.galgel: +Oall +fastallocatable -Wl,+FPD -Wl,-a,archive -llapack
```

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Notes/Tuning Information (Continued)

```
                RM_SOURCES = lapak.f90
      179.art: +Oall +Odataprefetch +Onofltacc +Optrs_strongly_typed
               -Wl,+FPD -Wl,-a,archive +I/+P
   183.equake: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD -Wl,-a,archive
  187.facerec: +O2 +Ofastaccess +fastallocatable -Wl,+FPD -Wl,-a,archive
               -Wl,/opt/langtools/lib/fastmem.o
     188.ammp: +Oall +Odataprefetch +Optrs_strongly_typed -Wl,+FPD
               -Wl,-a,archive +I/+P
    189.lucas: +O3 +Onoinline -Wl,+FPD -Wl,-a,archive
    191.fma3d: basepeak
200.sixtrack: +O3 +Onoinline +Onolimit +Onolibcalls +Onodataprefetch -Wl,+FPD
               -Wl,-a,archive -Wl,/opt/langtools/lib/fastmem.o
     301.apsi: +O3 +Onodataprefetch +Onofltacc -Wl,+FPD -Wl,-a,archive

Kernel tunables:
vps_pagesize=4096, vps_ceiling=16384, maxdsiz=0X040000000, maxssiz=0X10000000
2nd processor disabled at boot - co cpu 1 off
Event Monitoring System disabled.
```