



# CFP2000 Result

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Hewlett-Packard Company  
hp server rp8400

SPECfp\_rate2000 = 71.0  
SPECfp\_rate\_base2000 = 65.6

SPEC license #: 3 Tested by: HP Test date: Aug-2001 Hardware Avail: Sep-2001 Software Avail: Sep-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	16	489	60.7	16	316	93.9
171.swim	16	862	66.7	16	862	66.7
172.mgrid	16	588	56.8	16	588	56.8
173.applu	16	720	54.1	16	720	54.1
177.mesa	16	248	105	16	242	107
178.galgel	16	268	201	16	268	201
179.art	16	930	51.9	16	735	65.6
183.quake	16	634	38.1	16	539	44.8
187.facerec	16	623	56.6	16	615	57.3
188.amp	16	649	62.9	16	591	69.1
189.lucas	16	703	52.8	16	714	52.0
191.fma3d	16	812	48.0	16	788	49.5
200.sixtrack	16	281	72.6	16	251	81.5
301.apsi	16	597	80.8	16	597	80.8

Hardware		Software	
CPU:	PA-8700	Operating System:	B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
CPU MHz:	750	Compiler:	HP ANSI C 11.11.03 aC++ C.03.30.02 Fortran90 11.11.40 PHSS_24207 libm patch
FPU:	Integrated	File System:	Advanced JFS
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip	System State:	Multi-user
CPU(s) orderable:	2 to 16 by 2		
Parallel:	No		
Primary Cache:	0.75MBI + 1.5MBD on chip		
Secondary Cache:	None		
L3 Cache:	None		
Other Cache:	None		
Memory:	32GB		
Disk Subsystem:	8x36GB SCSI		
Other Hardware:	4 cells		

## 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:

ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack  
168.wupwise: +cat +O3 +Odataprefetch +Onofltacc  
-Wl,+FPD -Wl,-a,archive  
171.swim: basepeak=true  
172.mgrid: basepeak=true  
173.applu: basepeak=true  
177.mesa: +I/+P +Oall +Odataprefetch +Opromote\_indirect\_calls



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## Notes/Tuning Information (Continued)

```

-Wl,+FPD -Wl,-a,archive
178.galgel: basepeak=true
179.art: +I/+P +Oall +Odataprefetch +Onofltacc
+Optrs_strongly_typed +Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive
183.quake: +O4 +Olibcalls +Odataprefetch +Optrs_strongly_typed
+Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive
187.facerec: +cat +O3 +Ofastaccess
-Wl,+FPD -Wl,-a,archive
188.ammp: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed
+Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive
189.lucas: +O3 +Onoinline
-Wl,+FPD -Wl,-a,archive
191.fma3d: +O3 +Onolimit
-Wl,+FPD -Wl,-a,archive
200.sixtrack: +cat +O3 +Onolibcalls +Onolimit +Onoinline
+Odataprefetch
-Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true

```

### System tunables:

```

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 0x7b03a000, maxssiz 256000000
boot time firmware tunable DataPrefetch enabled (default)

```