



# CFP2000 Result

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Hewlett-Packard Company  
hp server rx4610

SPECfp\_rate2000 = 7.58  
SPECfp\_rate\_base2000 = 6.32

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	476	3.90	1	341	5.44
171.swim	1	300	12.0	1	289	12.4
172.mgrid	1	207	10.1	1	207	10.1
173.applu	1	388	6.28	1	388	6.28
177.mesa	1	372	4.37	1	367	4.43
178.galgel	1	217	15.5	1	211	16.0
179.art	1	238	12.7	1	159	19.0
183.equake	1	382	3.95	1	230	6.55
187.facerec	1	350	6.29	1	350	6.29
188.amp	1	710	3.59	1	397	6.43
189.lucas	1	241	9.63	1	196	11.8
191.fma3d	1	974	2.50	1	755	3.23
200.sixtrack	1	174	7.32	1	174	7.32
301.apsi	1	742	4.07	1	630	4.79

Hardware	Software
CPU: Intel Itanium	Operating System: HP-UX 11.20
CPU MHz: 800	HP C/ANSI B.11.20
FPU: Integrated	HP Fortran 90 B.11.20
CPU(s) enabled: 1 core, 1 chip, 1 core/chip	PHSS_24461 - LIBCL general patch
CPU(s) orderable: 2-4	PHSS_24463 - Aries cumulative patch
Parallel: no	PHSS_24464 - Assembler cumulative patch
Primary Cache: 16KBI + 16KBD	PHSS_24465 - SIN cumulative library Patch
Secondary Cache: 96KB	PHSS_24466 - SIN product patch
L3 Cache: 4MB (on CPU cartridge)	PHSS_24467 - u2comp product patch
Other Cache: None	PHSS_24468 - libm cumulative patch
Memory: 8GB	PHSS_24469 - aCC library patch
Disk Subsystem: 1x36 GB SCSI	PHSS_24470 - aCC product patch
Other Hardware: None	PHSS_24471 - C dev cumulative patch
	PHSS_24472 - C-TOOLS cumulative patch
	PHSS_24486 - Fortran Product Patch
	PHSS_24513 - linker cumulative patch
	PHSS_24648 - unwind cumulative patch
	File System: VxFS
	System State: Multi-user

## Notes/Tuning Information

### Portability Flags:

178.galgel: +source=fixed

### Base Flags:

f90 : +I/+P +Ofast +O3  
C : +I/+P +Ofaster +Onorecovery -exec

### Peak Flags (all use the following except where noted below):

f90 and f77 : +Ofast +Onoptrs\_to\_globals +O3  
C : +I/+P +Ofaster +Onorecovery +Onoptrs\_to\_globals  
+Otype\_safety=strong -exec  
all : LIBS =



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## Notes/Tuning Information (Continued)

```
168.wupwise : +cat +Ofast +Onoptrs_to_globals +O3 +Oinlinebudget=10000
              ONESTEP = true
177.mesa     : LIBS = -Bprotected
178.galgel  : +Ofast +Onoptrs_to_globals +O3 +Oloopblock
179.art     : LIBS = -Bprotected_data /opt/langtools/lib/hpux32/effmem.o
183.quake   : LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
188.ampp    : LIBS = -Bprotected
189.lucas   : +Ofast +Onoptrs_to_globals +O3 +Oinlinebudget=100
```

### Kernel Tunables:

```
maxdsiz      0x7b03a000
maxdsiz_64bit 0x4000000000
maxssiz      0x10000000
maxssiz_64bit 0x400000000
vps_ceiling  16384
vps_pagesize 4096
swapmem_on   0
dbc_max_pct  20
dbc_min_pct  20
```