CFP2000 Result

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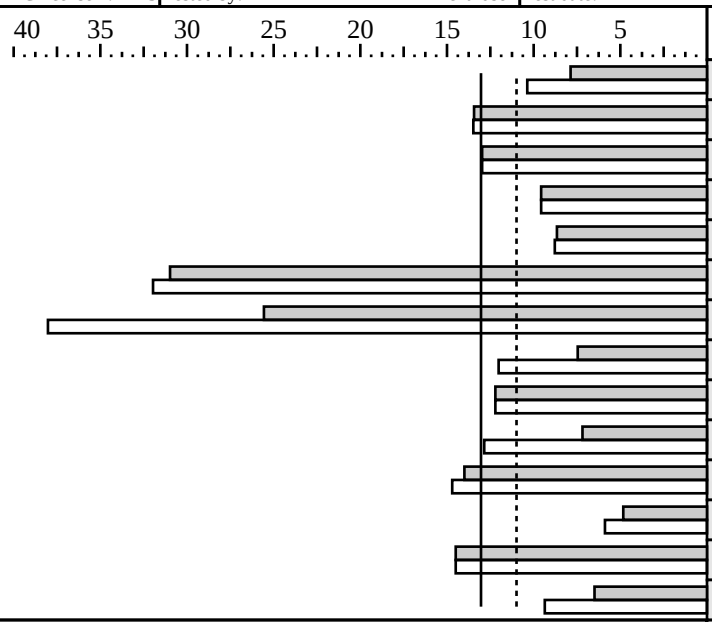
Hewlett-Packard Company
hp server rx4610

SPECfp_rate2000 = 13.0

SPECfp_rate_base2000 = 11.0

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	2	472	7.87	2	358	10.4
171.swim	2	535	13.4	2	534	13.5
172.mgrid	2	322	13.0	2	322	13.0
173.applu	2	509	9.57	2	509	9.57
177.mesa	2	375	8.66	2	370	8.78
178.galgel	2	217	31.0	2	211	32.0
179.art	2	236	25.6	2	159	38.0
183.equake	2	404	7.46	2	251	12.0
187.facerec	2	361	12.2	2	361	12.2
188.ammp	2	710	7.18	2	397	12.9
189.lucas	2	332	14.0	2	316	14.7
191.fma3d	2	1009	4.83	2	828	5.89
200.sixtrack	2	176	14.5	2	176	14.5
301.apsi	2	930	6.49	2	645	9.36

Hardware

CPU:	Intel Itanium
CPU MHz:	800
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	2-4
Parallel:	no
Primary Cache:	16KBI + 16KBD
Secondary Cache:	96KB
L3 Cache:	4MB (on CPU cartridge)
Other Cache:	None
Memory:	8GB
Disk Subsystem:	1x36 GB SCSI
Other Hardware:	None

Software

Operating System:	HP-UX 11.20
Compiler:	HP C/ANSI B.11.20 HP Fortran 90 B.11.20 PHSS_24461 - LIBCL general patch PHSS_24463 - Aries cumulative patch PHSS_24464 - Assembler cumulative patch PHSS_24465 - SIN cumulative library Patch PHSS_24466 - SIN product patch PHSS_24467 - u2comp product patch PHSS_24468 - libm cumulative patch PHSS_24469 - aCC library patch PHSS_24470 - aCC product patch 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 =
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
```

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Notes/Tuning Information (Continued)

```
183.equake  : LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
188.ammp    : LIBS = -Bprotected
189.lucas   : +Ofast +Onoptrs_to_globals +O3 +Oinlinebudget=100


Kernel Tunables:
maxdsiz         0x7b03a000
maxdsiz_64bit 0x4000000000
maxssiz         0x10000000
maxssiz_64bit   0x40000000
vps_ceiling          16384
vps_pagesize          4096
swapmem_on               0
dbc_max_pct             20
dbc_min_pct             20
```