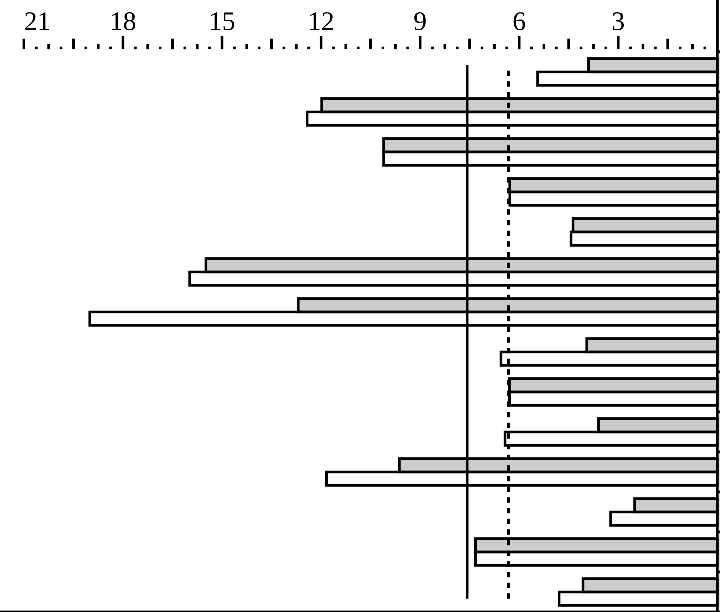
CFP2000 Result

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.ammp	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

CPU:	Intel Itanium
CPU MHz:	800
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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 =
```

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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.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
```