CFP2000 Result

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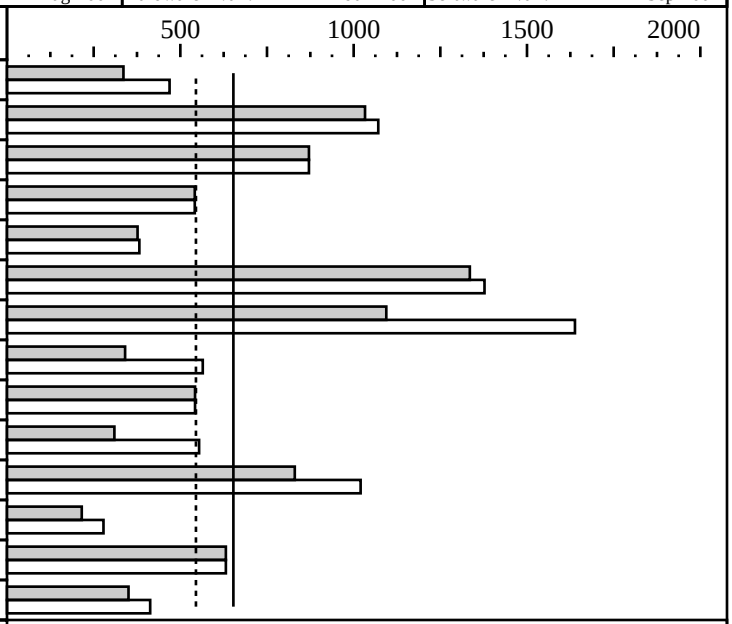
Hewlett-Packard Company
hp server rx4610

SPECfp2000 = 653

SPECfp_base2000 = 545

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	476	336	341	469
171.swim	3100	300	1033	289	1071
172.mgrid	1800	207	871	207	871
173.applu	2100	388	542	388	542
177.mesa	1400	372	377	367	382
178.galgel	2900	217	1335	211	1377
179.art	2600	238	1094	159	1638
183.equake	1300	382	341	230	565
187.facerec	1900	350	542	350	542
188.ammp	2200	710	310	397	554
189.lucas	2000	241	830	196	1020
191.fma3d	2100	974	216	755	278
200.sixtrack	1100	174	631	174	631
301.apsi	2600	742	351	630	413



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 =
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
```