



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.quake	2	404	7.46	2	251	12.0
187.facerec	2	361	12.2	2	361	12.2
188.amp	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.ammmp : LIBS = -Bprotected
189.lucas : +Ofast +Onoptrs_to_globals +O3 +Oinlinebudget=100
```

Kernel Tunables:

```
maxdsiz          0x7b03a000
maxdsiz_64bit    0x4000000000
maxssiz          0x100000000
maxssiz_64bit    0x400000000
vps_ceiling      16384
vps_pagesize     4096
swapmem_on       0
dbc_max_pct      20
dbc_min_pct      20
```