CFP2000 Result

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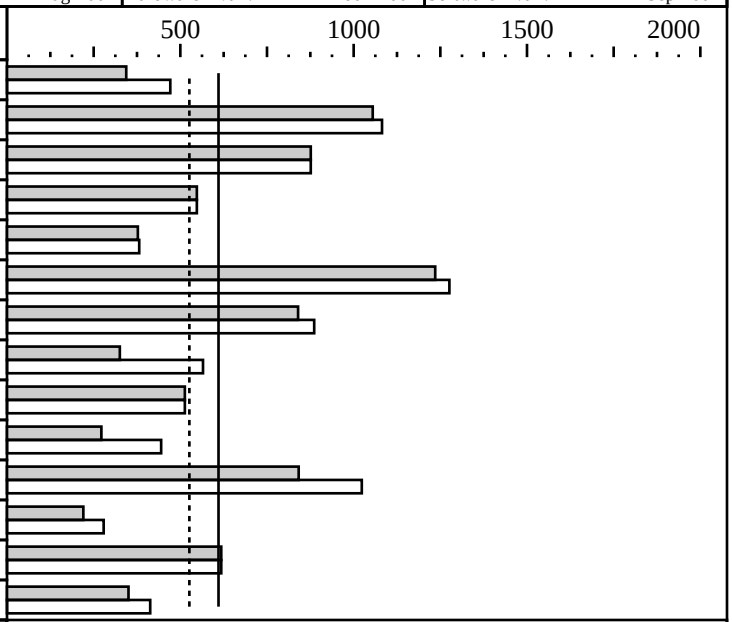
Hewlett-Packard Company
hp workstation i2000

SPECfp2000 = 610

SPECfp_base2000 = 526

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	465	344	340	471
171.swim	3100	294	1055	287	1082
172.mgrid	1800	205	876	205	876
173.applu	2100	383	548	383	548
177.mesa	1400	371	377	367	381
178.galgel	2900	235	1235	227	1276
179.art	2600	310	840	293	886
183.equake	1300	399	325	230	565
187.facerec	1900	370	513	370	513
188.ammp	2200	808	272	495	445
189.lucas	2000	238	841	195	1023
191.fma3d	2100	954	220	753	279
200.sixtrack	1100	178	618	178	618
301.apsi	2600	742	350	629	413



Hardware

CPU:	Intel Itanium
CPU MHz:	800
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	2
Parallel:	no
Primary Cache:	16KBI + 16KBD (on die)
Secondary Cache:	96KB (on die)
L3 Cache:	4MB (off die, on CPU package)
Other Cache:	None
Memory:	4GB (16 * 256MB DIMMS)
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:
168.wupwise  : +cat +Ofast +Onoptrs_to_globals +O3 +Oinlinebudget=10000
               ONESTEP = true
171.swim     : +Ofast +Onoptrs_to_globals +O3
172.mgrid    : basepeak=true
173.applu    : basepeak=true
177.mesa     : +I/+P +Ofaster +Onorecovery +Onoptrs_to_globals
               +Otype_safety=strong -exec LIBS = -Bprotected
178.galgel   : +Ofast +Onoptrs_to_globals +O3 +Oloopblock
179.art      : +I/+P +Ofaster +Onorecovery +Onoptrs_to_globals
```

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Notes/Tuning Information (Continued)

```
                  +Otype_safety=strong -exec
                  LIBS = -Bprotected_data /opt/langtools/lib/hpux32/effmem.o
   183.equake   : +I/+P +Ofaster +Onorecovery +Onoptrs_to_globals
                  +Otype_safety=strong -exec
                  LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o
   187.facerec  : basepeak=true
   188.ammp     : +I/+P +Ofaster +Onorecovery +Onoptrs_to_globals
                  +Otype_safety=strong -exec
                  LIBS = -Bprotected
   189.lucas    : +Ofast +Onoptrs_to_globals +O3 +Oinlinebudget=100
   191.fma3d    : +Ofast +Onoptrs_to_globals +O3
   200.sixtrack : basepeak=true
   301.apsi     :+Ofast +Onoptrs_to_globals +O3
   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
   One cpu physically removed
```