CFP2000 Result

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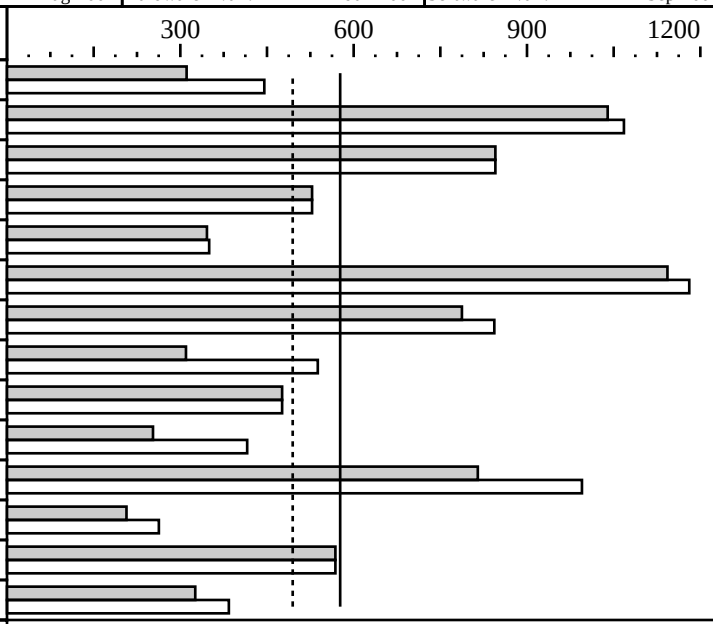
Hewlett-Packard Company
hp workstation i2000

SPECfp2000 = 577

SPECfp_base2000 = 494

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	515	311	359	445
171.swim	3100	298	1040	290	1068
172.mgrid	1800	213	845	213	845
173.applu	2100	398	528	398	528
177.mesa	1400	405	346	400	350
178.galgel	2900	254	1143	246	1181
179.art	2600	330	787	308	843
183.equake	1300	420	310	242	538
187.facerec	1900	399	476	399	476
188.ammp	2200	871	253	529	416
189.lucas	2000	245	815	201	995
191.fma3d	2100	1015	207	799	263
200.sixtrack	1100	194	568	194	568
301.apsi	2600	798	326	677	384



Hardware

CPU:	Intel Itanium
CPU MHz:	733
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
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
```