



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.earthquake | 1300 | 399 | 325 | 230 | 565 | |
| 187.facerec | 1900 | 370 | 513 | 370 | 513 | |
| 188.amp | 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)

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+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.ampp    : +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

```