



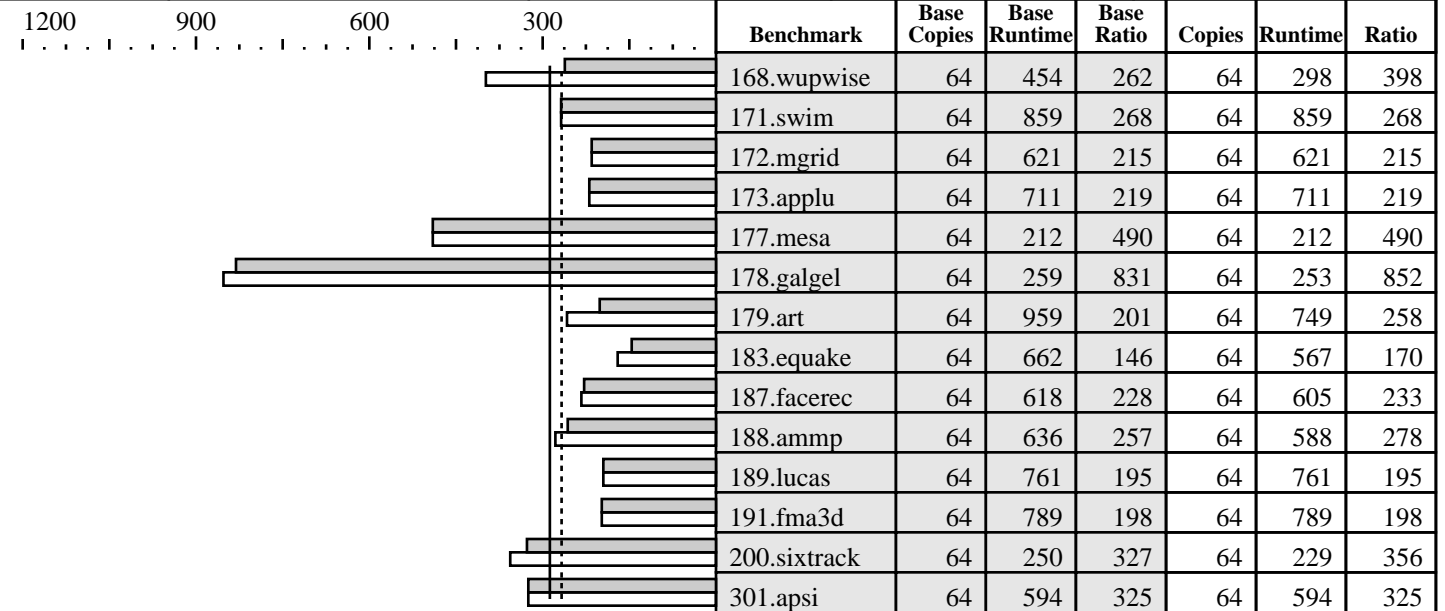
CFP2000 Result

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Hewlett-Packard Company
HP Superdome 64-way (875MHz PA-8700+)

SPECfp_rate2000 = 288
SPECfp_rate_base2000 = 267

SPEC license #: 3 Tested by: HP Test date: Jun-2002 Hardware Avail: Jul-2002 Software Avail: Jun-2002



Hardware

CPU: PA-8700+
 CPU MHz: 875
 FPU: Integrated
 CPU(s) enabled: 64 cores, 64 chips, 1 core/chip
 CPU(s) orderable: 8 to 64
 Parallel: No
 Primary Cache: 0.75MB(I) + 1.5MB(D) on chip
 Secondary Cache: None
 L3 Cache: None
 Other Cache: None
 Memory: 256GB (512x512MB DIMMs total)
 Disk Subsystem: 5x9GB Fibrechannel (striped)
 Other Hardware: None

Software

Operating System: HP-UX 11i TCOE B.11.11.0206.5
 Compiler: HP ANSI C 11.11.04
 Fortran90 11.11.42
 PHCO_24402 libc cumulative header file patch
 PHCO_26124 libc cumulative patch
 PHSS_24207 libm patch
 PHSS_25716 shared libF90 B.11.01.12
 PHSS_25719 libCL patch
 PHSS_26263 ld(1) and linker tools cumulative patch
 PHSS_26264 linker startup code/SSLIC ELF support
 PHSS_26792 Ansi C compiler cumulative patch
 PHSS_26793 +O4/PBO optimizer cumulative patch
 PHSS_27072 Fortran90 B.11.01.53 patch

File System: OnLine JFS
 System State: Single-user

Notes/Tuning Information

Portability flags:
178.galgel: +source=fixed

Baseline compile flags:
fortran: +Ofaster -Wl,-a,archive
C : +I/+P +O4 +Odataprefetch -Wl,-a,archive

Peak compile flags:
168.wupwise: (ONESTEP) +cat +O3 +Odataprefetch +Onofltacc
-Wl,+FPD -Wl,-a,archive
171.swim: basepeak=true
172.mgrid: basepeak=true
173.applu: basepeak=true
177.mesa: basepeak=true
178.galgel: +Ofaster +Oloop_unroll=6 -Wl,-a,archive



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Notes/Tuning Information (Continued)

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179.art: +I/+P +Oall +Onodataprefetch +Onofltacc +Optrs_strongly_typed
        +Opromote_indirect_calls -Wl,+FPD -Wl,-a,archive
183.earthquake: +O4 +Olibcalls +Odataprefetch +Optrs_strongly_typed
        +Opromote_indirect_calls -Wl,+FPD -Wl,-a,archive
187.facerec: (ONESTEP) +cat +O3 +Ofastaccess -Wl,+FPD -Wl,-a,archive
188.ammp: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed
        +Opromote_indirect_calls -Wl,+FPD -Wl,-a,archive
189.lucas: basepeak=true
191.fma3d: basepeak=true
200.sixtrack: (ONESTEP) +cat +O3 +Onolibcalls +Onolimit +Onoinline
        +Onodataprefetch -Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true

```

Hardware configuration notes:

System was configured as a single partition with 16 cells
boot time firmware tunable DataPrefetch enabled (default)

Operating system configuration notes:

PHKL_25778 LVM cumulative patch
PHKL_25886 Filesystem buffercache performance fix
PHKL_26230 VxFS cumulative patch

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct=10, dbc_max_pct=10
maxssiz=0x10000000

filesystem used for spec runs mounted tmplog,mincache=tmpcache