



CFP2000 Result

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Hewlett-Packard Company
HP Superdome 64-way (750MHz PA-8700)

SPECfp_rate2000 = 267
SPECfp_rate_base2000 = 248

SPEC license #: 3 Tested by: HP Test date: Aug-2001 Hardware Avail: Sep-2001 Software Avail: Sep-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	64	510	233	64	329	361
171.swim	64	838	274	64	838	274
172.mgrid	64	622	215	64	622	215
173.applu	64	715	218	64	715	218
177.mesa	64	251	414	64	245	424
178.galgel	64	280	770	64	280	770
179.art	64	973	198	64	758	255
183.equake	64	674	143	64	576	168
187.facerec	64	665	212	64	649	217
188.amp	64	670	244	64	613	267
189.lucas	64	774	192	64	777	191
191.fma3d	64	854	182	64	833	187
200.sixtrack	64	392	208	64	374	219
301.apsi	64	599	322	64	599	322

Hardware

CPU: PA-8700
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 64 cores, 64 chips, 1 core/chip
CPU(s) orderable: 8-64
Parallel: No
Primary Cache: 0.75MBI + 1.5MBD on chip
Secondary Cache: none
L3 Cache: none
Other Cache: none
Memory: 256GB
Disk Subsystem: 5x9GB Fiberchannel (striped)
1x9GB SCSI disk (root), 28x9GB FC disks (swap)
Other Hardware: 16 cells

Software

Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches
Compiler: HP ANSI C 11.11.03
aC++ C.03.30.02
Fortran90 11.11.40
PHSS_24207 libm patch
File System: HFS
System State: Multi-user

Notes/Tuning Information

Portability Flags:

178.galgel: +source=fixed

Base Flags:

f90: +O3 +Onofltacc -Wl,-a,archive -Wl,+FPD
C: +I/+P +O4 +Odataprefetch -Wl,-a,archive

Peak Flags:

168.wupwise: +cat +O3 +Odataprefetch +Onofltacc
-Wl,+FPD -Wl,-a,archive
171.swim: basepeak=true
172.mgrid: basepeak=true
173.applu: basepeak=true
177.mesa: +I/+P +Oall +Odataprefetch +Opromote_indirect_calls



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Notes/Tuning Information (Continued)

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-Wl,+FPD -Wl,-a,archive
178.galgel: basepeak=true
179.art: +I/+P +Oall +Odataprefetch +Onofltacc
+Optrs_strongly_typed +Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive
183.quake: +O4 +Olibcalls +Odataprefetch +Optrs_strongly_typed
+Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive
187.facerec: +cat +O3 +Ofastaccess
-Wl,+FPD -Wl,-a,archive
188.amm: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed
+Opromote_indirect_calls
-Wl,+FPD -Wl,-a,archive
189.lucas: +O3 +Onoinline
-Wl,+FPD -Wl,-a,archive
191.fma3d: +O3 +Onolimit
-Wl,+FPD -Wl,-a,archive
200.sixtrack: +cat +O3 +Onolibcalls +Onolimit +Onoinline
+Odataprefetch
-Wl,+FPD -Wl,-a,archive
301.apsi: basepeak=true
ONESTEP=true for 168.wupwise, 187.facerec, 200.sixtrack

System tunables:
vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 0x7b03a000, maxssiz 256000000
boot time firmware tunable DataPrefetch enabled (default)

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