Hewlett-Packard Company
HP Integrity Superdome 32-way (1500 MHz Itanium 2)

SPECfp_rate2000 = 470
SPECfp_rate_base2000 = 428

Hardware
CPU: Intel Itanium 2
CPU MHz: 1500
FPU: Integrated
CPU(s) enabled: 32 cores, 32 chips, 1 core/chip
CPU(s) orderable: 6 to 32 by 2
Parallel: no
Primary Cache: 16KBI + 16KBD (on chip) per CPU
Secondary Cache: 256KB (on chip) per CPU
L3 Cache: 6.0MB (on chip) per CPU
Other Cache: N/A
Memory: 128GB (256 * 512MB DIMMs)
Disk Subsystem: 10x36GB 10K RPM SCSI disk (striped)
Other Hardware: N/A

Software
Operating System: HPUX11i-TCOE B.11.23
Compiler: HP C/ANSI C Compiler B.11.23
File System: vxfs
System State: Multi-user

Notes/Tuning Information
C compiler invoked as:
/opt/ansic/bin/cc -AOe

Portability Flags
178.galgel: +source=fixed

Base Flags
f90 : +profile=collect:all/+profile=use +Ofast +O3 -minshared
C : +profile=collect:all/+profile=use +Ofaster -exec

Peak Flags:
168.wupwise : +Ofast +Onoptrs_toGlobals -minshared +O4 +Oinline_budget=50000
171.swim : basepeak=true
172.mgrid : +Ofast +O3 -minshared +DSblended +DD64
173.applu : +Ofast +O3 -minshared
177.mesa : basepeak=true
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Notes/Tuning Information (Continued)

178. galgel : +Ofast +Onoptrs_to Globals -minshared +O3 +Oloop_unroll=2 +DD64
RM_SOURCES = lapak.f90
LIBS = -llapack

179. art : basepeak=true

183. equake : +Oprofile=collect:all/+Oprofile=use +Ofaster +Onorecovery
+Onoptrs_to Globals +Otype_safety=strong -exec -Wl,-aarchive_shared
LIBS = -Bprotected /opt/langtools/lib/hpux32/effmem.o

187. facerec : +Ofast +Onoptrs_to Globals -minshared +O3 +Oloop_unroll=2

188. ammp : basepeak=true

189. lucas : +Ofast +Onoptrs_to Globals -minshared +O3 +Oinline_budget=100

191. fma3d : +Ofast +Onoptrs_to Globals -minshared +O3

200. sixtrack : basepeak=true

301. apsi : +Ofast +Onoptrs_to Globals -minshared +O3

Kernel Tunables:
dbc_max_pct=20
dbc_min_pct=20
maxdsiz=3221225472
maxssiz=401604608
maxdsiz_64bit=4396972769279
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384

Other notes:
System was configured with 1/2 of memory interleaved and
1/2 of memory local to each cell

System configured as a single partition with 8 cells and
4 processors per cell

Processes were assigned to localities using the
HP-UX mpsched utility

Filesystem used for SPEC runs mounted "tmplog"