CINT2000 Result

Hewlett-Packard Company
HP Integrity Superdome (1.6GHz/9MB Itanium 2, 16 cells)

SPECint_rate2000 = 1108
SPECint_rate_base2000 = 1108

Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio
---|---|---|---|---|---|---
164.gzip | 64 | 137 | 761 | 64 | 137 | 761
175.vpr | 64 | 111 | 933 | 64 | 111 | 933
176.gcc | 64 | 64.5 | 1267 | 64 | 64.5 | 1267
181.mcf | 64 | 60.9 | 2195 | 64 | 60.9 | 2195
186.crafty | 64 | 76.2 | 974 | 64 | 76.2 | 974
197.parser | 64 | 162 | 826 | 64 | 162 | 826
252.eon | 64 | 67.9 | 1422 | 64 | 67.9 | 1422
253.perlbmk | 64 | 130 | 1032 | 64 | 130 | 1032
254.gap | 64 | 117 | 699 | 64 | 117 | 699
255.vortex | 64 | 83.5 | 1689 | 64 | 83.5 | 1689
256.bzip2 | 64 | 105 | 1065 | 64 | 105 | 1065
300.twolf | 64 | 190 | 1175 | 64 | 190 | 1175

Hardware
CPU: Intel Itanium 2 (1.6GHz/9MB, 400MHz FSB)
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 64 cores, 64 chips, 1 core/chip
CPU(s) orderable: 2 to 64 by 2
Parallel: no
Primary Cache: 16KBI + 16KBD on chip, per core
Secondary Cache: 256KB (I+D) on chip, per core
L3 Cache: 9.0MB (I+D) on chip, per core
Other Cache: N/A
Memory: 256GB (512x512MB DIMMs)
Disk Subsystem: 4x73GB 15K SCSI (striped)
Other Hardware: N/A

Software
Operating System: HPUX11i-TCOE B.11.23.0409
Compiler: HP C/ANSI C Compiler C.06.00
HP aC++ Compiler C.06.00
File System: vxfs
System State: Multi-user

Notes/Tuning Information
Portability Flags
176.gcc : -DHOST_WORDS_BIG_ENDIAN
186.crafty : -DHP
252.eon : -DFMAX_IS_DOUBLE
253.perlbmk : -DSPEC_CPU2000_HP
254.gap : -DSPEC_CPU2000_HP -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO
-DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO

Base Flags
all : +Oprofile=collect:all/+Oprofile=use
C : +Ofaster -exec +Otype_safety=ansi
C++ : +Ofaster +Otype_safety=ansi

Peak Flags
same as base (basepeak=true set globally)

Kernel Tunables:
dbc_max_pct=20
dbc_min_pct=20
maxdtsiz=3221225472
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Notes/Tuning Information (Continued)

maxssiz=401604608
maxdsiz_64bit=4396972761584
maxssiz_64bit=1073741824
vps_pagesize=4096
vps_ceiling=16384

Notes:
The system under test had the HP-UX 11i v2 (version 11.23.0409, September, 2004) Technical Computing Operating Environment and AR1204 compilers installed, along with the following patches:

  PHSS_31849 linker + fdp cumulative patch
  PHSS_31850 assembler patch
  PHSS_31851 Integrity Unwind Library
  PHSS_31852 aC++ Runtime (IA: A.05.60, PA A.03.60)
  PHSS_31853 Math Library Cumulative Patch
  PHSS_31854 milli cumulative patch

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 16 cells and 4 processors per cell

Filesystem used for SPEC runs mounted "tmplog"

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