CINT2000 Result

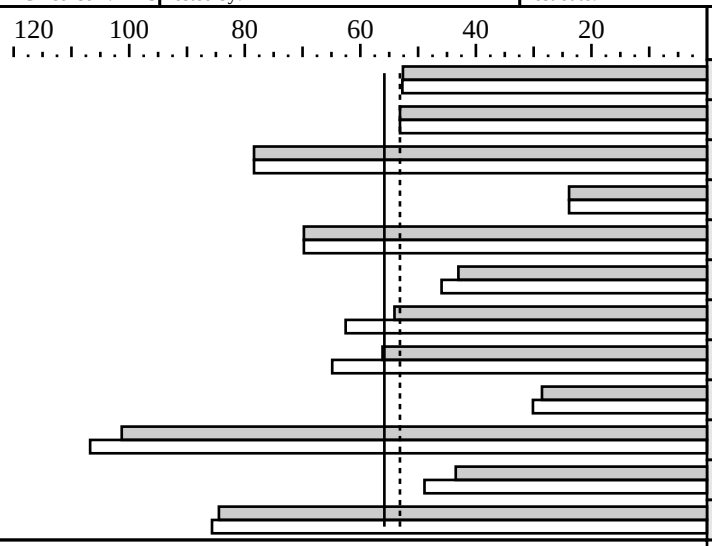
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Hewlett-Packard Company
hp server rp7410 (875MHz PA-8700+)

SPECint_rate2000 = 55.8

SPECint_rate_base2000 = 53.1

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	247	52.6	8	246	52.7
175.vpr	8	245	53.1	8	245	53.1
176.gcc	8	130	78.4	8	130	78.4
181.mcf	8	700	23.9	8	700	23.9
186.crafty	8	133	69.8	8	133	69.8
197.parser	8	388	43.0	8	364	45.9
252.eon	8	223	54.1	8	193	62.5
253.perlbmk	8	297	56.2	8	258	64.9
254.gap	8	357	28.6	8	339	30.1
255.vortex	8	174	101	8	165	107
256.bzip2	8	320	43.5	8	285	48.9
300.twolf	8	330	84.5	8	325	85.7

Hardware

CPU:	PA-8700+
CPU MHz:	875
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	2 to 8 by 2
Parallel:	No
Primary Cache:	0.75MB(I) + 1.5MB(D) on chip
Secondary Cache:	None
L3 Cache:	None
Other Cache:	None
Memory:	16GB (32x512MB DIMMs total)
Disk Subsystem:	2x18 GB SCSI
Other Hardware:	None

Software

Operating System:	HP-UX 11i TCOE B.11.11.0206.5
Compiler:	HP ANSI C compiler B.11.11.04 HP aC++ compiler C.03.33.01 PHCO_24402 libc cumulative header file patch PHCO_26124 libc cumulative patch PHSS_24207 libm patch PHSS_25719 libCL patch PHSS_26263 ld(1) and linker tools cumulative patch PHSS_26264 linker startup code / SLLIC ELF support PHSS_26792 Ansi C compiler cumulative patch PHSS_26793 +O4/PBO optimizer cumulative patch PHSS_26952 aC++ cumulative patch (A.03.35)
File System:	OnLine JFS
System State:	Multi-user

Notes/Tuning Information

```
Portability:
  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

Baseline compile flags:
  C      : +I/+P +Oall +Ostatic_prediction -Wl,-a,archive
  C++    : +I/+P +O3 +Ostatic_prediction -Wl,-a,archive

Peak compile flags:
     164.gzip: +I/+P +Oall +Optrs_strongly_typed +Oinline_budget=800
               -Wl,-a,archive +Ostatic_prediction
      175.vpr: basepeak=true
      176.gcc: basepeak=true
      181.mcf: basepeak=true
   186.crafty: basepeak=true
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
     197.parser: +I/+P +Oall +Odataprefetch +ESfic +Oinline_budget=400
                 +Owhole_program_mode -Wl,-a,archive +Ostatic_prediction
        252.eon: +I/+P +noeh +O4 +Optrs_strongly_typed +Olibcalls +Oentrysched
                 +A +ESfic -Wl,-a,archive +Ostatic_prediction
    253.perlbmk: +I/+P +Oall +ESlit +ESfic +Optrs_strongly_typed
                 +Opromote_indirect_calls -Wl,-a,archive +Ostatic_prediction
                 linked with /opt/langtools/lib/fastmem.o
        254.gap: +I/+P +Oall +ESlit +ESfic +Optrs_strongly_typed
                 +Opromote_indirect_calls -Wl,-a,archive +Ostatic_prediction
     255.vortex: +I/+P +Oall +Oinline_budget=800 +Optrs_strongly_typed
                 -Wl,-a,archive +Ostatic_prediction
      256.bzip2: +I/+P +Oall +Odataprefetch +Optrs_strongly_typed +Owhole_program_mode
                +Onoptrs_to_globals +Oinline_budget=80 -Wl,-a,archive +Ostatic_prediction
      300.twolf: +I/+P +Oall +Optrs_strongly_typed -Wl,-a,archive +Ostatic_prediction

Hardware configuration notes:

  System was configured as a single partition with 2 cells
  boot time firmware tunable DataPrefetch enabled (default)

Operating system configuration notes:

  PHKL_25778 LVM cumulative patch
  PHKL_25886 Filesystem buffercache performance fix

  vps_pagesize 4096, vps_ceiling 16384
  dbc_min_pct=20, dbc_max_pct=20
  maxssiz=0x10000000

  filesystem used for spec runs mounted delaylog
```